Software Requirements Specification

Co-op Evaluation System

Senior Project 2014-2015

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Appendix A: Glossary

Appendix B: Issues List

Revision History

Version	Primary Author(s)	Description of Version	Date Completed
v1.0	Emma Nelson, Maddison Hickson, Casey Klimkowsky, Tyler Geery	Initial revision	October 6, 2014
v1.1	Maddison Hickson	Update after the Requirements phase receiving more information from Jim	October 16, 2014
v1.2	Casey Klimkowsky, Tyler Geery, Maddison Hickson	Update after receiving feedback from Jim on 10/23/14	October 28, 2014
v1.3	Casey Klimkowsky, Tyler Geery, Maddison Hickson	Update after receiving feedback from Jim on 10/28/14	October 30, 2014
v1.4	Emma Nelson	Updated VM Specification	October 30, 2014
v1.5	Casey Klimkowsky, Tyler Geery, Maddison Hickson	Update after receiving feedback from Kim on 10/28/14	November 3, 2014
v1.6	Emma Nelson	Verified changes and added priority description	November 5, 2014

1 Introduction

1.1 Purpose

The purpose of the Co-op Evaluation System (CES) is to allow students to provide feedback on their most recent co-op, and for employers to provide feedback on a student's performance during their most recent co-op. Additionally, the system is used by faculty to approve or fail a student's co-op, and is also used by OCSCE to gather data on students' co-ops.

This SRS describes the entire scope of the new Co-op Evaluation System, which is elaborated upon in 1.3.

1.2 Problem

RIT's current Co-op Evaluation System, an application used by OCSCE, has a number of performance, reliability, usability, and maintainability issues. Among others, session timeouts and submission timeouts are inherit problems of the current Co-op Evaluation System. A new version started from scratch with up-to-date technologies needs to be developed.

1.3 Document Conventions

Each requirement statement is to have its own priority, which is listed next to the requirement itself. A priority of "High" indicates that the given requirement is top priority by the development team and is key to having a functional system. "Medium" priority requirements will be secondary; however, the development team still expects to complete as many of the associated features as time allows in order to deliver a functionally equivalent system. Requirements labelled with a "Low" priority are stretch goals or out of scope, depending on the time available at the end of the development time. Most of these requirements are additional features beyond the scope of the current feature set. They are documented for use in future development either by ITS or another senior project team.

1.4 Project Scope

One of our primary goals is that by the conclusion of this project, we will, at a minimum, have supplied OCSCE and ITS with a product that is functionally equivalent to the existing system, with fewer performance, reliability, and maintainability issues. Time permitting, we hope to implement a small number of enhancements, as defined by our project sponsors, as well. We plan to design and implement the system with extensibility in mind, so that in the future, other developers may implement additional features that we were unable to implement during the duration of this project.

Several features that exist in the current system, but need to be drastically improved, are report generation, form generation, and error messages. Even though we are aiming for functional equivalence for these features, we intend to greatly improve their usability. We plan to address other major pain points, such as the ability to change a student's supervisor at a later date, that require minimal effort as well.

1.5 Intended Audience

This document is intended to help the development team to validate that they are building the right application, and verify that the features they have built are built correctly. This document is also intended for the project sponsors to sign off on as a definitive list of requirements. Finally, the project coach can use this document to validate the development team is meeting the agreed upon requirements during his evaluation of the team's efforts.

1.6 References

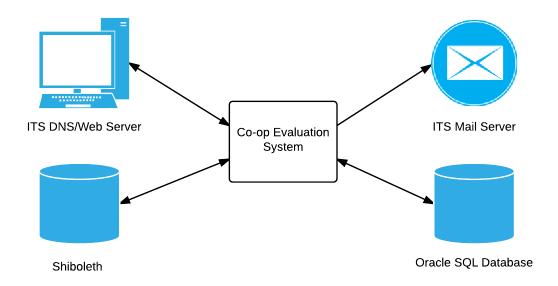
We were given the following materials to help us define the requirements of the system:

Reference	Description
ITS Wiki Page	Created by the ITS team, and contains sample applications as well as guidelines we must abide by
Project Proposal	Written by the sponsors, and contains much of the background and high-level goals of the project.
Collection of all previous work on the project	This includes documentation and code from the previous senior project teams that worked on the Co-op Evaluation System.
RIT Web Standards	This document defines a set of standards that create a framework for proper usage with regard to language, graphics, and navigational architecture on all RIT-related websites.

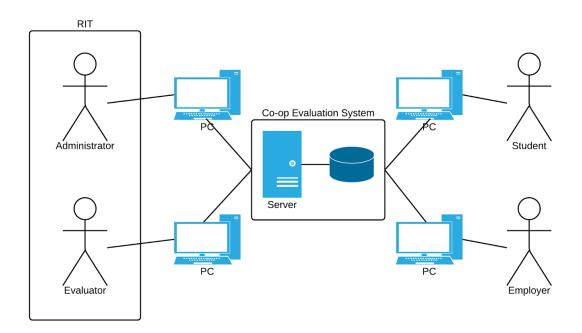
2 Overall Description

2.1 Product Perspective

The purpose of this project is to re-engineer the Co-op Evaluation System in order to leverage newer web technologies while also improving performance and user interaction. The current system uses outdated, under-documented technology, which makes it difficult to maintain. Furthermore, the random errors that occur do not give users confidence that their information was submitted properly. Significant improvements to the user interface will need to be made, but the existing database structures can be used as a reference for modifications.



The above diagram outlines the major components of the overall system, subsystem interconnections, and external interfaces, which are elaborated upon in Section 5.



The diagram above show a high-level view of the user interaction with the system as well as the interaction between technologies involved.

2.2 User Classes and Characteristics

User	Description of Use	Frequency of Use
Student	Uses application to fill out a Work Report	1 time per co-op block
Employer	Uses application to fill out an Employer Evaluation	1 time per student per co-op block
Evaluator	Uses application to review the student's and employer's survey responses to determine the student's grade (S or F)	1 time per student being evaluated
Administrator	Uses application to gather statistical data from survey responses	As needed to generate reports, create new forms, and perform other administrative tasks

2.3 Evaluation Status States

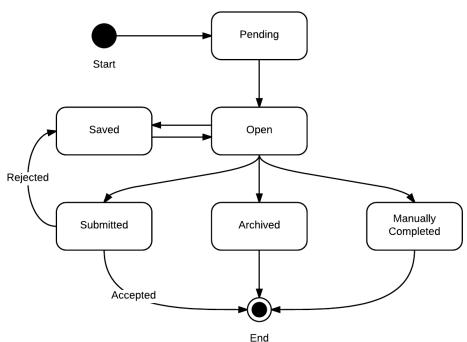
Evaluations, both Employer and Student, will start out as Pending. In the pending state, the evaluation appears in the system, but cannot be filled out yet.

Three weeks from the end of the term, all evaluations will be changed from Pending to Open. An evaluation in the Open state can be filled out by an Employer or Student that it is assigned to. An open evaluation can be changed to Saved, Submitted, Manually Completed, or Archived state.

If the user saved the evaluation, it is changed to the Saved state. In this state, the user can open the evaluation and continue filling out answers. They can continue saving the evaluation until they are finished. The Saved sate will be referred to as "In Progress" in the user interface. The evaluation can be changed to Submitted, Manually Completed, or Archived state from the Saved state.

The Submitted state is reached by submitting the form from either the Open state or the Saved state. In this state, the evaluation cannot be changed by any class of user. At this point, the only change that can be made to the evaluation is by an evaluation approval change. If the evaluation is approved, nothing else will happen. If the evaluation is rejected, the evaluation will go back to the Saved state.

There are two other states that an evaluation can end up in: Manually Completed and Archived. If the evaluation is completed in some way other than the normal process, an evaluation can be changed to the Manually Completed state. If the evaluation will never be completed, and the user does not want to receive messages telling them to fill out the evaluation, the evaluation can be marked as Archived. The Archived state was known as the Past Pending state in the previous version of the CES.



2.4 Operating Environment

Since the product will be a web-based application, the software is required to be accessible by numerous browsers, and different versions of each browser. The browser in which the application is accessed may be from a desktop computer, or a mobile device.

The required browsers and versions of each in which the system must be accessible from are as follows:

- Google Chrome, latest version
- Mozilla Firefox, latest version
- Safari, latest version
- Internet Explorer, 9+

The system itself shall be deployed and will operate on a VM provided by ITS. The system specifications of this VM are as follows:

- The server is currently running Tomcat 7.0.55. The version will be upgraded to 7.0.56 in January.
- The amount of memory will be adjusted to suit the needs of our application.
- The current configuration has both the minimum and maximum heap size is set to 512MB. If more space is required, another Tomcat instance will be spun up to distribute the load across two servers controlled by the same host.
- Hardware is shared between many applications and monitored by the ITS application support team.
- Both TEST and PROD servers are within the RIT network and will require use of the RIT VPN in order to conduct testing.

2.5 Design and Implementation Constraints

The system must comply with the development guidelines provided to us by ITS, as defined by the EWA Student Development Guidelines wiki page. At a high level, these guidelines include approved application frameworks, build tools, application server technologies, database standards, and several other technology standards.

The system must also comply with the RIT Web standards document, which defines the standards for RIT-related websites in regard to language, graphics, and navigational architecture.

2.6 Assumptions and Dependencies

Our biggest personal assumption is that our own experiences on co-op and with the old CES are representative of every student. However, we know this is not the case, so we will do our best to talk to our friends in other majors to glean their perspectives. We will use our experiences and those of other users as examples of what can happen, not as hard facts.

JobZone may become a potential dependency. Right now employers can log in there without an RIT computer account, and the hope is that the CES can get the authentication token from

JobZone to authenticate the user on the Co-op Evaluation System. However, this is still up in the air; there may be some re-planning around finding an alternative solution for Employer Authentication.

SIS was another potential tie-in on the Evaluator side; however, this is out of scope for this project. The sponsor was looking into finding out if the Evaluator role can be shifted to SIS for an easier interaction experience for faculty and staff who use SIS on a daily basis. In this case, the system would need to provide a portal for SIS to access information as needed, and to send messages of acceptance or rejection for Student Evaluations.

3 System Features

3.1 System Requirements

3.1.1 Form Administration

Number	Priority	Requirement
F-01	High	Student and Employer evaluations shall have the following progress statuses: Submitted, Saved, Open, Pending, Manually Completed, and Archived. Refer to Section 2.3 for more detail.
F-02	High	Student evaluations shall have the following evaluation approval statuses: Approved, Pending Approval, and Rejected.
F-03	Medium	The system shall record an evaluation approval status change trail.
F-04	Medium	The system shall automatically change the progress status of all evaluations from Pending to Open after a configurable number of weeks before the end of a Student's co-op.
F-05	High	The system shall store evaluations in a database.

3.1.2 Evaluations

Number	Priority	Requirement
E-01	Low	The system shall be able to automatically save non-submitted evaluation forms.
E-02	High	The system shall be able to validate an evaluation for completeness.
E-03	Medium	The system shall be able to validate an evaluation for correctness (e.g. email validation) the client side.

3.1.3 Submissions

Number	Priority	Requirement
S-01	Medium	The system shall display the submissions in a format that is printable.
S-02	High	The system shall be able to search forms based on student last name, student first name, student ID, company name, term, department, advisor's RIT Computer Account user name, student progress status, evaluation progress status, and employer evaluation status.

3.1.4 Reports

Number	Priority	Requirement
R-01	High	The system shall generate reports based on a user-defined selection of submissions and statistics.
R-02	Medium	The system shall produce statistics on all questions that have numeric answers.
R-03	Low	The system shall produce statistics on all questions that have qualitative answers ("Comments Only").
R-04	High	The system shall use an third-party service to generate reports that, at a minimum, supports the reports generated by the current system.
R-05	Out of Scope	The system shall be able to accommodate the addition of a more reports as defined by the sponsor and other users of the CES.
R-06	Low	The system should provide an easy way to select items to be included or excluded from the report.
R-07	Low	The system should provide the ability to run reports across multiple year-levels (i.e. all undergraduate students).
R-08	Low	The system should be able to export the SQL view created for the report.
R-09	Low	The system shall be able to export the report data in CSV format for use in any spreadsheet application.
R-10	Out of Scope	The system should be able to run reports on qualitative data.

R-11	Out of Scope	The system should display the qualitative questions on forms as selectable options when choosing the report settings.
R-12	Low	The system shall take no longer than 3 minutes to generate a report.
R-13	Low	The system shall have the ability run a report by academic year.
R-14	Out of Scope	The system should have the ability to run a report by form.

3.1.5 Email Notifications

Number	Priority	Requirement
N-01	High	The system shall be able to send generated email notifications to Students and Evaluators both manually and automatically.
N-02	Medium	The system shall be able to send generated email notifications to Students and Evaluators automatically.
N-03	Medium	The system shall be able to generate evaluation notifications to all Employers and Students a configurable number of weeks before the Student's end date.
N-04	Medium	The system shall be able to generate a student confirmation email to Students and Employers.
N-05	Low	The system shall be able to display notification statuses for Student and Employer notifications. (Use Case 4.1.4)
N-06	High	The system shall be able to display failed emails and sent emails in the notifications statuses.
N-07	Medium	The system shall send a notification email to a Student or Employer when their evaluation has been rejected.
N-08	Medium	The system shall send an email notification to Students confirming their supervisor, start date, and end date.
N-09	Low	The system shall send a notification email to Students when their work report was successfully persisted.
N-10	Low	The system shall send a notification email to Employers when their evaluation was successfully persisted.
N-11	Low	The system shall send an email notification to Students and Employers when an evaluation has been Saved, but not submitted for a period of two weeks.

N-12	Low	The system shall send an email notification to Evaluators when their students submit a work report.
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3.1.6 Users

Number	Priority	Requirement
U-01	High	The system shall use the user information captured from existing OCSCE database to provide authorization for employers.
U-02	Medium	The system shall be able to automatically initialize the next term for Students and Employers based on the RIT academic calendar.
U-03	High	The system shall be able to update the status of submissions when supplied with a new status (manually or automatically).
U-04	High	The system shall use Shibboleth to authorize students, faculty, and OCSCE staff.

3.2 User Requirements

3.2.1 Administrator

Number	Priority	Requirement
AD-01	High	An Administrator shall be able to view Student and Employer evaluations.
AD-02	High	An Administrator shall be able to view Student and Employer submissions.
AD-03	High	An Administrator shall be able to search Student and Employer evaluations.
AD-04	High	An Administrator shall be able to search Student and Employer submissions.
AD-05	Medium	An Administrator shall be able to compare Student and Employer submissions, side-by-side.
AD-06	High	An Administrator shall be able to create student/employer forms.
AD-07	High	An Administrator shall be able to view student/employer forms.
AD-08	High	An Administrator shall be able to student/employer update forms.

AD-09	Low	An Administrator shall be able to student/employer archive forms.
AD-10	Medium	An Administrator shall be able to delete forms that have no submissions associated with them.
AD-11	High	An Administrator shall be able to assign forms to departments.
AD-12	High	An Administrator shall be able to update the status of any groups of evaluations.
AD-13	High	An Administrator shall be able to view the status of any evaluation.
AD-14	Medium	An Administrator shall be able to create and edit notifications.
AD-15	Medium	An Administrator shall be able to resend failed notifications.
AD-16	Medium	An Administrator shall be able to view the configurations of notifications.
AD-17	Medium	An Administrator shall be able to update the configurations of notifications.
AD-18	Medium	An Administrator shall be able to generate reports.
AD-19	Low	An Administrator shall be able to copy the contents of an existing Student or Employer form to a new form.
AD-20	High	An Administrator shall be able to add/remove OCES users to the system.
AD-21	High	An Administrator shall be able to add/remove Academic Department (Evaluator) users from the system.
AD-22	High	An Administrator shall be able to add/remove colleges and departments to the system.
AD-23	Medium	An Administrator shall be able to transfer Academic Department user privileges to another user.
AD-24	High	An Administrator shall be able to import a file containing evaluations.
AD-24	High	· · · · · · · · · · · · · · · · · · ·

3.2.2 Evaluator

Number	Priority	Requirement
EV-01	High	The Evaluator shall be able to view Student evaluations associated with their department.

EV-02	High	The Evaluator shall be able to view Employer evaluations associated with their department.
EV-03	High	The Evaluator shall be able to view Student submissions associated with their department.
EV-04	High	The Evaluator shall be able to view Employer submissions associated with their department.
EV-05	Low	The Evaluator shall be able to view Student evaluations associated with double majors in their department.
EV-06	Low	The Evaluator shall be able to view Employer evaluations associated with double majors in their department.
EV-07	Low	The Evaluator shall be able to view Student submissions associated with double majors in their department.
EV-08	Low	The Evaluator shall be able to view Employer submissions associated with double majors in their department.
EV-09	Medium	The Evaluator shall be able to compare current Student and Employer submissions.
EV-10	High	The Evaluator shall be able to view forms assigned to their department.
EV-11	High	The Evaluator shall be able to accept or reject a submission.
EV-12	High	The Evaluator shall be able to view the status for all evaluations associated with their department.
EV-13	Low	The Evaluator shall be able to create notifications for their department.
EV-14	Low	The Evaluator shall be able to view the configuration of the notifications.
EV-15	Low	An Evaluator shall be able to change the status of a work report from archived to open.

3.2.3 Student

Number	Priority	Requirement
ST-01	High	A Student shall be able to view their own work reports.
ST-02	High	A Student shall be able to update their own work reports before submission unless it has been rejected.

ST-03	High	A Student shall be able to submit their own work reports.
ST-04	High	A Student shall be able to view their own submissions.
ST-05	High	A Student shall be able to view the submissions of their Employers.
ST-06	High	A Student shall be able to view the status of their own work reports.
ST-07	High	A Student shall be able to view the status of their Employers' evaluations.

3.2.4 Employer

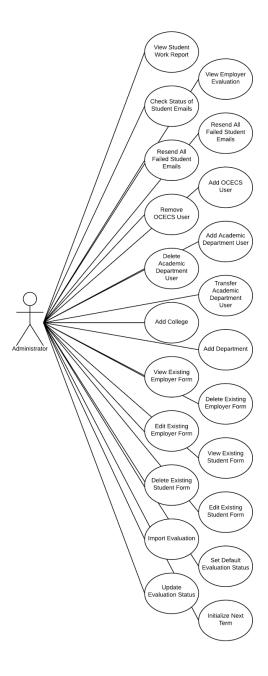
Number	Priority	Requirement
EM-01	High	The Employer shall be able to view their evaluations.
EM-02	High	The Employer shall be able to update their evaluations.
EM-04	High	The Employer shall be able to submit an evaluation.
EM-05	High	The Employer shall be able to view their submissions.
EM-06	High	The Employer shall be able to view the status of their evaluations.

4 Use Cases

Refer to the User Analysis and Workflows document for a complete description of the human actors involved in the system.

4.1 Administrator

4.1.1 Use Case Context



4.1.2 View Student Work Report

Actors	Administrator
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Description	This use case describes how an Administrator uses the Co-op Evaluation System to view a Student's submitted work report.	
Trigger	Administrator desires to look over a student's co-op evaluation.	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	
Post-conditions	The desired student's work report is displayed to the Administrator.	
Normal Flow	 The Administrator selects "Search Evaluations". The Administrator inputs student information. The Administrator clicks "Search" button. The Administrator selects desired student. The Administrator selects the work report for the specific semester. The use case ends successfully. 	
Alternative Flows	N/A	
Exceptions	Student is Not in the System If in step 3 of the normal flow the desired student does not exist in the system, then 1. The system shall display a message stating that the student does not exist. 2. The use case ends with a failure condition.	

4.1.3 View Employer Evaluation

Actors	Administrator	
Description	This use case describes how an Administrator uses the Co-op Evaluation System to view an Employer's submitted evaluation.	
Trigger	Administrator desires to look over a student's co-op evaluation.	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	
Post-conditions	The desired employer's co-op evaluation of the student is displayed to the Administrator.	
Normal Flow	 The Administrator selects "Search Evaluations". The Administrator inputs student information. The Administrator clicks "Search" button. The Administrator selects desired employer. The Administrator selects the submission for the specific semester. The use case ends successfully. 	

Alternative Flows	N/A
Exceptions	Employer is Not in the System If in step 4 of the normal flow the desired employer does not exist in the system, then 1. There is no action to be taken by the Administrator. 2. The use case ends with a failure condition.

4.1.4 Check Status of Emails

Actors	Administrator	
Description	This use case describes how an Administrator uses the Co-op Evaluation System to check the status of the reminder emails sent out to students and employers.	
Trigger	Administrator desires to look over the status of emails sent to students and employers.	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	
Post-conditions	Administrator is viewing the given status of student and employer emails.	
Normal Flow	 The Administrator selects "Check Status" from the main menu. The Administrator views scheduled emails as well as the date and time for which the emails are scheduled. The Administrator views failed emails and the reason for failure. The use case ends successfully. 	
Alternative Flows	N/A	
Exceptions	N/A	

4.1.5 Resend All Failed Emails

Actors	Administrator	
Description	This use case describes how an Administrator uses the Co-op Evaluation System to send out any email notifications that failed to send to students and employers.	
Trigger	Administrator desires to send out any email notifications that failed to send to students and employers.	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	

Post-conditions	The Administrator resent all "failed" emails.	
Normal Flow	 The Administrator selects "Check Status" from the main menu. The Administrator sees a list of all emails that failed to send. The Administrator selects "Resend All Failed Emails" from page. The use case ends successfully. 	
Alternative Flows	N/A	
Exceptions	No Failed Emails in System If in step 2 of the normal flow there are no emails that failed to send, then 1. The Administrator does nothing. 2. The use case ends with a failure condition.	

4.1.6 Add OCSCE User

Actors	Administrator	
Description	This use case describes how an Administrator uses the Co-op Evaluation System to add an Office of Cooperative Education and Career Services (OCSCE) user to the system.	
Trigger	Administrator desires to Add an Office of Cooperative Education and Career Services (OCSCE) user to the system.	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	
Post-conditions	Administrator successfully added the OCSCE user to the system.	
Normal Flow	 The Administrator accesses "OCSCE Users" under the Administration Section. The Administrator searches for the desired user's RIT computer account. The Administrator selects the desired user's RIT computer account. The Administrator selects the "Add" button under the text field. The Administrator verifies user has been added to the system. The use case ends successfully. 	
Alternative Flows	N/A	
Exceptions	User Already in the System If in step 2 of the normal flow the user is already an OCSCE user, then	

1.	There is no	action to b	e taken b	y the Administrator.
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The use case ends with a failure condition.

4.1.7 Remove OCSCE User

Actors	Administrator	
Description	This use case describes how an Administrator uses the Co-op Evaluation System to remove an Office of Cooperative Education and Career Services (OCSCE) user from the system.	
Trigger	Administrator desires to remove an Office of Cooperative Education and Career Services (OCSCE) user to the system.	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	
Post-conditions	Administrator successfully removed the OCSCE user from the system.	
Normal Flow	 The Administrator accesses "OCSCE Users" under the Administration Section. The Administrator searches for the desired user's RIT computer account. The Administrator selects desired user to be removed from the system. The Administrator selects the "Remove" button under the "Existing Users" text field. The use case ends successfully. 	
Alternative Flows	N/A	
Exceptions	N/A	

4.1.8 Add Academic Department User

Actors	Administrator	
Description	This use case describes how an Administrator uses the Co-op Evaluation System to add an Academic Department User to the system.	
Trigger	Administrator desires to add an Academic Department User to the system.	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	

Post-conditions	Administrator successfully added an Academic Department User to the system.	
Normal Flow	 The Administrator selects the desired department(s). The Administrator searches for the desired user's RIT computer account. The Administrator selects the user's name. The Administrator selects the "Add" button. The use case ends successfully. 	
Alternative Flows	N/A	
Exceptions	Department User Already in the System If in step 2 of the normal flow the user is already an Academic Department User, then 1. There is no action to be taken by the Administrator. 2. The use case ends with a failure condition.	

4.1.9 Delete Academic Department User

Actors	Administrator	
Description	This use case describes how an Administrator uses the Co-op Evaluation System to remove an Academic Department User from the system.	
Trigger	Administrator desires to remove an Academic Department User from the system.	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	
Post-conditions	Administrator successfully deletes an Academic Department User from the system.	
Normal Flow	 The Administrator selects the desired department(s). The Administrator searches for the desired user's RIT computer account. The Administrator selects the user's name. The Administrator selects the "Remove" button. The use case ends successfully. 	
Alternative Flows	N/A	
Exceptions	N/A	

4.1.10 Transfer Academic Department User

Actors	Administrator	
Description	This use case describes how an Administrator uses the Co-op Evaluation System to transfer an existing user's privileges in the system to another user.	
Trigger	Administrator desires to transfer existing user in the system to another department.	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	
Post-conditions	Administrator successfully transferred user to another department.	
Normal Flow	 The Administrator chooses the source "Department: Select the College" the department is under. The Administrator selects the desired department. The Administrator chooses "Destination Department: Select the College" the department is under. The Administrator selects the desired department. The Administrator clicks the "Transfer" button. The use case ends successfully. 	
Alternative Flows	N/A	
Exceptions	N/A	

4.1.11 Add College

Actors	Administrator	
Description	This use case describes how an Administrator uses the Co-op Evaluation System to add a new college to the system.	
Trigger	Administrator desires to add a new college to the system.	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	
Post-conditions	Administrator successfully added a new college to the system.	
Normal Flow	 Using "Colleges/Departments" under the Administrator section, the Administrator selects the "College Name" text field. The Administrator enters desired college name. The Administrator selects the "Add" button. 	

	4. The use case ends successfully.
Alternative Flows	N/A
Exceptions	College Already in the System If in step 2 of the normal flow the college is already in the system, then 1. There is no action to be taken by the Administrator. 2. The use case ends with a failure condition.

4.1.12 Remove College

Actors	Administrator	
Description	This use case describes how an Administrator uses the Co-op Evaluation System to remove a college from the system.	
Trigger	Administrator desires to remove a college from the system.	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	
Post-conditions	Administrator successfully removed a college from the system.	
Normal Flow	 The Administrator navigates to the "Colleges/Departments" menu item. The Administrator selects the college name desired to be removed. The Administrator selects the "Remove" button. The use case ends successfully. 	
Alternative Flows	N/A	
Exceptions	Form Submission for College If in step 3 of the normal flow the college to be deleted has an existing form submission associated with it, then 1. The system displays a message saying that college cannot be deleted because there is an existing form submission under that college. 2. The use case ends with a failure condition.	

4.1.13 Add Department

Actors	Administrator
Description	This use case describes how an Administrator uses the Co-op Evaluation System to add a new department to the system.
Trigger	Administrator desires to add a new department to the system.

Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system.
Post-conditions	Administrator successfully added a new department to the system.
Normal Flow	 Using "Colleges/Departments" under the Administrator section, the Administrator selects the college the department is under. The Administrator enters desired department name. The Administrator enters desired department code. The Administrator clicks the "Add" button. The Administrator verifies department was added. The use case ends successfully.
Alternative Flows	N/A
Exceptions	Department Already in the System If in step 2 of the normal flow the department is already in the system, then 1. There is no action to be taken by the Administrator. 2. The use case ends with a failure condition.

4.1.14 Remove Department

Actors	Administrator	
Description	This use case describes how an Administrator uses the Co-op Evaluation System to remove a department from the system.	
Trigger	Administrator desires to remove a department from the system.	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	
Post-conditions	Administrator successfully removed a department from the system.	
Normal Flow	 The Administrator navigates to the "Colleges/Departments" menu item. The Administrator selects the department name/code desired to be removed. The Administrator selects the "Remove" button. The use case ends successfully. 	
Alternative Flows	N/A	
Exceptions	Form Submission for Department If in step 3 of the normal flow the department to be deleted has an existing form submission associated with it, then	

1.	The system displays a message saying that department cannot be deleted because there is an existing form
	submission under that department.
2	The use sees and with a failure condition

2. The use case ends with a failure condition.

4.1.15 Create a New Employer Form

Actors	Administrator	
Description	This use case describes how an Administrator uses the Co-op Evaluation System to create a new Employer form.	
Trigger	Administrator desires to create a new Employer form.	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	
Post-conditions	Administrator successfully created a new Employer form.	
Normal Flow	 The Administrator selects "Employer Forms" under the Administrator section. The Administrator clicks the "New Form" button. The Administrator selects which department and college the form is for using drop-down lists. The Administrator adds the desired fields to the form. The Administrator submits the form. The use case ends successfully. 	
Alternative Flows	N/A	
Exceptions	Form Failed to Submit If in step 5 of the normal flow an error occurs when the Administrator attempts to submit the form, then 1. The system displays an error message stating what went wrong. 2. The use case ends with a failure condition.	

4.1.16 View Existing Employer Form

Actors	Administrator	
Description	This use case describes how an Administrator uses the Co-op Evaluation System to view an existing form for a given department.	
Trigger	Administrator desires to view existing form for given department.	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	

Post-conditions	Administrator successfully viewed an existing employer form.	
Normal Flow	 Using "Employer Forms" under the Administrator section, the Administrator selects the existing employer form. The Administrator selects the desired form. The Administrator clicks the "View Form" button. The use case ends successfully. 	
Alternative Flows	N/A	
Exceptions	N/A	

4.1.17 Delete Existing Employer Form

3 1 7		
Actors	Administrator	
Description	This use case describes how an Administrator uses the Co-op Evaluation System to delete an existing form for a given department.	
Trigger	Administrator desires to delete Existing form for given department	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	
Post-conditions	Administrator successfully deleted an existing employer form.	
Normal Flow	 Using "Employer Forms" under the Administrator section, the Administrator selects the existing employer form. The Administrator selects the desired form. The Administrator clicks the "Delete Form" button. The use case ends successfully. 	
Alternative Flows	N/A	
Exceptions	Employer Submission for Selected Form If in step 3 of the normal flow the form to be deleted has an existing employer submission, then 1. The system displays a message saying that form cannot be deleted because there is an existing submission for that form. 2. The use case ends with a failure condition.	

4.1.18 Edit Existing Employer Form

Actors	Administrator
Description	This use case describes how an Administrator uses the Co-op Evaluation System to edit an existing form for a given department.

Trigger	Administrator desires to edit existing form for given department.	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	
Post-conditions	Administrator successfully edited an existing employer form.	
Normal Flow	 Using "Employer Forms" under the Administrator section, the Administrator selects the existing employer form. The Administrator selects the desired form. The Administrator clicks the "Edit Form" button. The Administrator makes desired changes to the form. The Administrator scrolls to the bottom of the form, and clicks the "Apply Changes" button. The use case ends successfully. 	
Alternative Flows	Cancel Changes If in step 5 of the normal flow the Administrator desires to cancel their changes, then 1. The Administrator scrolls to the bottom of the form, and clicks the "Cancel" button. 2. The use case ends successfully.	
Exceptions	N/A	

4.1.19 Create a New Student Form

Actors	Administrator	
Description	This use case describes how an Administrator uses the Co-op Evaluation System to create a new Student form.	
Trigger	Administrator desires to create a new Student form.	
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. 	
Post-conditions	Administrator successfully created a new Student form.	
Normal Flow	 The Administrator selects "Student Forms" under the Administrator section. The Administrator clicks the "New Form" button. The Administrator selects which department and college the form is for using drop-down lists. The Administrator adds the desired fields to the form. The Administrator submits the form. The use case ends successfully. 	

Alternative Flows	N/A
Exceptions	Form Failed to Submit If in step 5 of the normal flow an error occurs when the Administrator attempts to submit the form, then 1. The system displays an error message stating what went wrong. 2. The use case ends with a failure condition.

4.1.20 View Existing Student Form

Actors	Administrator
Description	This use case describes how an Administrator uses the Co-op Evaluation System to view an existing form for a given department.
Trigger	Administrator desires to view existing form for given department.
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system.
Post-conditions	Administrator successfully viewed an existing student form.
Normal Flow	 Using "Student Forms" under the Administrator section, the Administrator selects the existing student form. The Administrator selects the desired form. The Administrator clicks the "View Form" button. The use case ends successfully.
Alternative Flows	N/A
Exceptions	N/A

4.1.21 Delete Existing Student Form

Actors	Administrator
Description	This use case describes how an Administrator uses the Co-op Evaluation System to delete an existing form for a given department.
Trigger	Administrator desires to delete existing form for given department.
Pre-conditions	 The Administrator has an Internet connection The Administrator is authenticated and signed into the system.
Post-conditions	Administrator successfully deleted an existing student form.
Normal Flow	Using "Student Forms" under the Administrator section, the

	Administrator selects the existing student form. 2. The Administrator selects the desired form. 3. The Administrator clicks the "Delete Form" button. 4. The use case ends successfully.
Alternative Flows	N/A
Exceptions	Student Submission for Selected Form If in step 3 of the normal flow the form to be deleted has an existing student submission, then 3. The system displays a message saying that form cannot be deleted because there is an existing submission for that form. 4. The use case ends with a failure condition.

4.1.22 Edit Existing Student Form

Actors	Administrator
Description	This use case describes how an Administrator uses the Co-op Evaluation System to edit an existing form for a given department.
Trigger	Administrator desires to edit existing form for given department.
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system.
Post-conditions	Administrator successfully edited an existing student form.
Normal Flow	 Using "Student Forms" under the Administrator section, the Administrator selects the existing student form. The Administrator selects the desired form. The Administrator clicks the "Edit Form" button. The Administrator makes desired changes to the form. The Administrator clicks the "Apply Changes" button. The use case ends successfully.
Alternative Flows	Cancel Changes If in step 5 of the normal flow the Administrator desires to cancel their changes, then 1. The Administrator scrolls to the bottom of the form, and clicks the "Cancel" button. 2. The use case ends successfully.
Exceptions	N/A

4.1.23 Import Evaluation

Actors	Administrator
Description	This use case describes how an Administrator uses the Co-op Evaluation System to import evaluation information for students.
Trigger	Administrator desires import a newly registered co-ops .
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. The Administrator has an import file.
Post-conditions	Administrator successfully imported evaluations into the system.
Normal Flow	 The Administrator selects "Import Evaluations" from menu. The Administrator chooses a file to import. The Administrator clicks the "Upload" button. The use case ends successfully.
Alternative Flows	N/A
Exceptions	File is Not Properly Formatted If in step 3 of the normal flow the file uploaded is not in the correct format, then 1. The system displays a message saying that the file is in an invalid format. 2. The use case ends with a failure condition.

4.1.24 Set Default Evaluation Status

Actors	Administrator
Description	This use case describes how an Administrator uses the Co-op Evaluation System to set a default evaluation status for a college.
Trigger	Administrator desires needs to change the default status for a specific college.
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. The college and department already exists in the system. The evaluation status already exists.
Post-conditions	Administrator successfully changed the default evaluation status for a specific college or department.
Normal Flow	The Administrator selects "College/Department" from menu.

	 The Administrator chooses a college from the drop-down menu. The Administrator chooses the new default evaluation status. The Administrator clicks the "Set Status" button. The use case ends successfully.
Alternative Flows	N/A
Exceptions	N/A

4.1.25 Update Evaluation Status

Actors	Administrator
Description	This use case describes how an Administrator uses the Co-op Evaluation System to update the evaluation status for a college.
Trigger	Administrator desires to update the evaluation status for a college .
Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. The Administrator has an import file. The college and department already exists in the system. The evaluation status already exists.
Post-conditions	Administrator successfully updated the evaluation status for a college.
Normal Flow	 The Administrator selects "College/Department" from menu. The Administrator chooses a college from the drop-down menu. The Administrator chooses the new evaluation status. The Administrator clicks the "Update" button. The use case ends successfully.
Alternative Flows	N/A
Exceptions	N/A

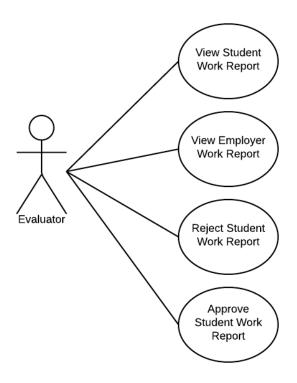
4.1.26 Initialize Next Term

Actors	Administrator
Description	This use case describes how an Administrator uses the Co-op Evaluation System to initialize the next term in which students will be on co-op.
Trigger	Administrator desires to initialize the next term that students will be on co-op.

Pre-conditions	 The Administrator has an Internet connection. The Administrator is authenticated and signed into the system. The term has not already been initialized.
Post-conditions	Administrator successfully initialized the next term.
Normal Flow	 The Administrator selects "Initialize Term" from menu. The Administrator selects whether to initialize the term for students or employers. The Administrator clicks the "Initialize Term" button. The use case ends successfully.
Alternative Flows	N/A
Exceptions	N/A

4.2 Evaluator

4.2.1 Use Case Context



4.2.2 View Student Work Report

Actors	Evaluator
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Description	This use case describes how an Evaluator uses the Co-op Evaluation System to view a Student's submitted work report.
Trigger	Evaluator has received a notification about the students completion and desires to look over a student's co-op evaluation.
Pre-conditions	 Evaluator has an Internet connection. Evaluator is authenticated and signed into the system. The student has already finished their work report.
Post-conditions	Evaluator is viewing the given student's work report evaluation.
Normal Flow	 The Evaluator accesses "Search Evaluations" from the main menu. The Evaluator inputs student information. The Evaluator clicks the "Search" button. The Evaluator selects the student work report for the specific semester. The use case ends successfully.
Alternative Flows	N/A
Exceptions	Student is Not in the System If in step 3 of the normal flow the desired student does not exist in the system, then 1. The system shall display a message stating that the student does not exist. 2. The use case ends with a failure condition.

4.2.3 View Employer Evaluation

Actors	Evaluator
Description	This use case describes how an Evaluator uses the Co-op Evaluation System to view an Employer's submitted evaluation.
Trigger	Evaluator has received a notification that the Employer has completed their evaluation and desires to look it over.
Pre-conditions	 Evaluator has an Internet connection. Evaluator is authenticated and signed into the system. Employer has already completed their evaluation of the student.
Post-conditions	Evaluator is viewing the given employer's evaluation.
Normal Flow	The Evaluator accesses "Search Evaluations" from the main menu.

	 The Evaluator inputs desired search criteria. The Evaluator clicks the "Search" button. The Evaluator selects the employer evaluation for the specific semester. The use case ends successfully.
Alternative Flows	N/A
Exceptions	Employer is Not in the System If in step 4 of the normal flow the desired employer does not exist in the system, then 1. The system shall display a message stating that the employer does not exist. 2. The use case ends with a failure condition.

4.2.4 Reject Student Work Report

Actors	Evaluator
Description	This use case describes how an Evaluator uses the Co-op Evaluation System to reject the student's work report and have it sent back to the student to redo.
Trigger	Evaluator is not satisfied with the student's work report, and there is a desire for the student to re-do their submission.
Pre-conditions	 Evaluator has an Internet connection. Evaluator is authenticated and signed into the system. Student has already submitted their work report.
Post-conditions	Evaluator has changed the status of the work report from Pending Approval to Rejected.
Normal Flow	 The Evaluator accesses "Search Evaluations" from the main menu. The Evaluator inputs student information. The Evaluator clicks the "Search" button. The Evaluator selects the desired student. The Evaluator selects "Reject" for the work report for the specific semester. The use case ends successfully.
Alternative Flows	N/A
Exceptions	Student is Not in the System If in step 3 of the normal flow the desired student does not exist in the system, then

1.	The system shall does not exist.	ll dis	splay	a mess	sage stating that the stude	nt
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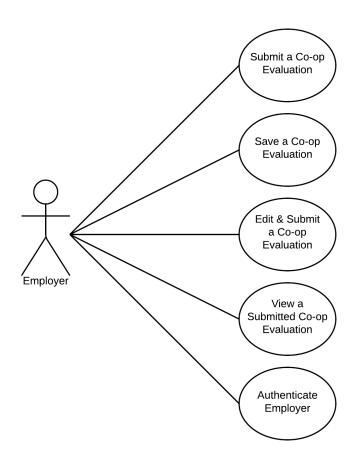
2. The use case ends with a failure condition.

4.2.5 Accept Student Work Report

Actors	Evaluator		
Description	This use case describes how an Evaluator uses the Co-op Evaluation System to accept the student's work report.		
Trigger	Evaluator is satisfied with the student's work report after reviewing it, and wants to accept it.		
Pre-conditions	 Evaluator has an Internet connection. Evaluator is authenticated and signed into the system. Student has already submitted their work report. 		
Post-conditions	Evaluator has changed the status of the work report from Pending Approval to Approved.		
Normal Flow	 The Evaluator accesses "Search Evaluations" from the main menu. The Evaluator inputs student information The Evaluator clicks the "Search" button The Evaluator searches for the desired student. The Evaluator selects "Accept" for the work report for the specific semester. The use case ends successfully. 		
Alternative Flows	N/A		
Exceptions	Student is Not in the System If in step 3 of the normal flow the desired student does not exist in the system, then 1. The system shall display a message stating that the student does not exist. 2. The use case ends with a failure condition.		

4.3 Employer

4.3.1 Use Case Context



4.3.2 Submit a Co-op Evaluation

Actors	Employer
Description	This use case describes how the Employer uses the Co-op Evaluation System to submit a new Co-op Evaluation.
Trigger	Employer has a Co-op Student for which an Evaluation needs to be submitted and has received an email telling them the form is available.
Pre-conditions	 The Employer has an active Internet connection. The Employer has a registered Co-op Student.
Post-conditions	The Co-op Evaluation has been submitted for the Co-op Student.
Normal Flow	 The Employer selects "Submit Co-op Evaluation". Use Case: Authenticate Employer is performed. The Employer selects a student.

	 The Employer completes the Co-op Evaluation. The Employer submits the Co-op Evaluation. The system displays a message saying that the Co-op Evaluation has been submitted successfully. The use case ends successfully.
Alternative Flows	All Required Fields Have Not Been Completed If in step 5 of the normal flow the Employer submits the Co-op Evaluation without having completed all required fields, then 1. The system shall display an error message, and ask the Employer to fill out all required fields that have not been completed. 2. The use case resumes at step 4.
Exceptions	Invalid User If in step 2 of the normal flow the use case Authenticate Employer does not complete successfully, then 1. The use case ends with a failure condition. Error Submitting Work Report If in step 6 of the normal flow there was an error with the submission of the Co-op Evaluation, then 1. The system shall display an error message, saying there was a problem with Co-op Evaluation submission. 2. The use case ends with a failure condition.

4.3.2 Save a Co-op Evaluation

Actors	Employer
Description	This use case describes how the Employer uses the Co-op Evaluation System to save a Co-op Evaluation to be completed at a later date.
Trigger	Employer has a Co-op Student for which a Co-op Evaluation needs to be submitted, and they wish to finish the Co-op Evaluation at a later date.
Pre-conditions	 The Employer has an active Internet connection. The Employer has a registered Co-op Student.
Post-conditions	A Co-op Evaluation has been saved for the respective Co-op Student.
Normal Flow	 The Employer selects "Submit Co-op Evaluation". Use Case: Authenticate Employer is performed. The Employer selects a Co-op Student. The Employer partially completes the Co-op Evaluation. The Employer saves the Co-op Evaluation.

	6. The system displays a message saying that the Co-op Evaluation has been saved successfully.7. The use case ends successfully.
Alternative Flows	N/A
	Invalid User If in step 2 of the normal flow, the use case Authenticate Employer does not complete successfully, then 1. The use case ends with a failure condition.
Exceptions	Error Saving Work Report
•	If in step 6 of the normal flow there was an error with the saving of the
	Co-op Evaluation, then
	 The system shall display an error message, saying there was a problem with saving the Co-op Evaluation. The use case ends with a failure condition.

4.3.3 Edit & Submit a Co-op Evaluation

1,0,0 Eart a gasinit a go op Evaluation			
Actors	Employer		
Description	This use case describes how the Employer uses the Co-op Evaluation System to update a Co-op Evaluation that was previously saved.		
Trigger	Employer has a co-op for which a Co-op Evaluation has been started, and they wish to finish the Co-op Evaluation and submit it.		
Pre-conditions	 The Employer has an active Internet connection. The Employer has previously registered a co-op. The Employer has a previously saved a Co-op Evaluation. 		
Post-conditions	A Co-op Evaluation has been saved for the respective Co-op Student.		
Normal Flow	 The Employer selects "Submit Co-op Evaluation". Use Case: Authenticate Employer is performed. The Employer selects a co-op student for which a Co-op Evaluation has been previously saved. The Employer completes the Co-op Evaluation, if unfinished. The Employer submits the Co-op Evaluation. The system displays a message saying that the Co-op Evaluation has been submitted successfully. The use case ends successfully. 		
Alternative Flows	Save Work Report If in step 4 of the normal flow the Employer chooses to save the Co-op Evaluation again instead of submitting it, then 1. The Employer partially completes the Co-op Evaluation. 2. The Employer saves the Co-op Evaluation.		

	 The system displays a message saying that the Co-op Evaluation has been saved successfully. The use case ends successfully.
	All Required Fields Have Not Been Completed If in step 5 of the normal flow the Employer submits the Co-op Evaluation without having completed all required fields, then 1. The system shall display an error message, and ask the Employer to fill out all required fields that were not completed. 2. The use case resumes at step 4.
	Invalid User If in step 2 of the normal flow the use case Authenticate Employer does not complete successfully, then 1. The use case ends with a failure condition.
Exceptions	Error Submitting Co-op Evaluation If in step 6 of the normal flow there was an error with the submitting of the Co-op Evaluation, then 1. The system shall display an error message, saying there was a problem with submitting the Co-op Evaluation. 2. The use case ends with a failure condition.

4.3.4 View a Submitted Co-op Evaluation

Actors	Employer		
Description	This use case describes how the Employer uses the Co-op Evaluation System to view a Co-op Evaluation that was previously submitted.		
Trigger	Employer has a Co-op Evaluation that has been submitted, and they want to view.		
Pre-conditions	 The Employer has an active Internet connection. The Employer has a previously submitted Co-op Evaluation for a given student. 		
Post-conditions	The desired Co-op Evaluation is displayed to the Employer.		
Normal Flow	 The Employer selects "View Co-op Evaluation & Report". Use Case: Authenticate Employer is performed. The Employer selects a Co-op Student from a list of students who have previously worked for the Employer. The Employer selects a previously submitted Co-op Evaluation for the student. The system displays the Co-op Evaluation to the Employer. The use case ends successfully. 		
Alternative Flows	N/A		

	Invalid User If in step 2 of the normal flow the use case Authenticate Employer does not complete successfully, then 1. The use case ends with a failure condition.
Exceptions	Error Displaying Work Report If in step 4 of the normal flow there was an error displaying the Co-op Evaluation, then 1. The system shall display an error message, saying there was a problem with displaying the Co-op Evaluation. 2. The use case ends with a failure condition.

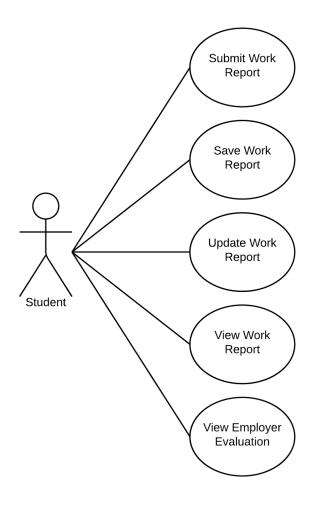
4.3.5 Authenticate Employer

This use case is meant to demonstrate what will happen if the employers cannot authenticate through Simplicity. It may or may not be the case in the final system, but it is important to plan for possibility at this stage in the process.

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Actors	Employer	
Description	This use case describes how the Employer authenticates with the Co-op Evaluation System.	
Trigger	Employer has a action to complete on the Co-op Evaluation System.	
Pre-conditions	 The Employer has an active Internet connection. The Employer has hired at least one student to work a co-op. 	
Post-conditions	The Employer is successfully logged into the Co-op Evaluation System.	
Normal Flow	 The Employer opens the website on a supported browser. The Employer selects "Employer Login". The Employer types in their user name. The Employer types in their password. The Employer submits their credentials. The system authenticates the user. The system displays the Employer's homepage. The use case ends successfully. 	
Alternative Flows	N/A	
Exceptions	Invalid User If in step 7 of the normal flow does not complete successfully, then 1. The use case ends with a failure condition.	

4.4 Student

4.4.1 Use Case Context



4.4.2 Submit Work Report

Actors	Student	
Description	This use case describes how the Student uses the Co-op Evaluation System to submit a new Work Report.	
Trigger	Student has a co-op for which a Work Report needs to be submitted.	
Pre-conditions	 The Student has an active Internet connection. The Student has previously registered a co-op. 	
Post-conditions	A Work Report has been submitted for the respective Student's co-op.	
Normal Flow	 The Student selects "Submit Co-op Work Report". Use Case: Validate User is performed. 	

	 The Student selects a co-op. The Student completes the Work Report. The Student submits the Work Report. The system displays a message saying that the Work Report has been submitted successfully. The use case ends successfully. 	
Alternative Flows	All Required Fields Have Not Been Completed If in step 5 of the normal flow the Student submits the Work Report without having completed all required fields, then 1. The system shall display an error message, and ask the Student to fill out all required fields that have not been completed. 2. The use case resumes at step 4.	
Exceptions	Invalid User If in step 2 of the normal flow Student the use case: Validate User does not complete successfully, then 1. The use case ends with a failure condition. Error Submitting Work Report If in step 6 of the normal flow there was an error with the submission of the Work Report, then 1. The system shall display an error message, saying there was a problem with Work Report submission. 2. The use case ends with a failure condition.	

4.4.3 Save Work Report

Actors	Student	
Description	This use case describes how the Student uses the Co-op Evaluation System to save a Work Report to be completed at a later date.	
Trigger	Student has a co-op for which a Work Report needs to be submitted, and they wish to finish the Work Report at a later date.	
Pre-conditions	 The Student has an active Internet connection. The Student has previously registered a co-op. 	
Post-conditions	A Work Report has been saved for the respective Student's co-op.	
Normal Flow	 The Student selects "Submit Co-op Work Report". Use Case: Validate User is performed. The Student selects a co-op. The Student partially completes the Work Report. The Student saves the Work Report. 	

	6. The system displays a message saying that the Work Report has been saved successfully.7. The use case ends successfully.		
Alternative Flows	N/A		
	Invalid User If in step 2 of the normal flow Student the use case: Validate User does not complete successfully, then 1. The use case ends with a failure condition.		
Exceptions	otions Error Saving Work Report		
	If in step 6 of the normal flow there was an error with the saving of the Work Report, then		
	 The system shall display an error message, saying there was a problem with saving the Work Report. The use case ends with a failure condition. 		

4.4.4 Update Work Report

1. 1. 1 Opdate Work Report		
Actors	Student	
Description	This use case describes how the Student uses the Co-op Evaluation System to update a Work Report that was previously saved.	
Trigger	Student has a co-op for which a Work Report has been started, and they wish to finish the Work Report and submit it.	
Pre-conditions	 The Student has an active Internet connection. The Student has previously registered a co-op. The Student has a previously saved a Work Report. 	
Post-conditions	A Work Report has been saved for the respective Student's co-op.	
Normal Flow	 The Student selects "Submit Co-op Work Report". Use Case: Validate User is performed. The Student selects a co-op for which a Work Report has been previously saved. The Student completes the Work Report. The Student submits the Work Report. The system displays a message saying that the Work Report has been submitted successfully. The use case ends successfully. 	
Alternative Flows	Save Work Report If in step 4 of the normal flow the Student chooses to save the Work Report again instead of submitting it, then 1. The Student partially completes the Work Report. 2. The Student saves the work report.	

	 The system displays a message saying that the Work Report has been saved successfully. The use case ends successfully.
	All Required Fields Have Not Been Completed If in step 5 of the normal flow the Student submits the Work Report without having completed all required fields, then 1. The system shall display an error message, and ask the Student to fill out all required fields that have not been completed. 2. The use case resumes at step 4.
	Invalid User If in step 2 of the normal flow Student the use case: Validate User does not complete successfully, then 1. The use case ends with a failure condition.
Exceptions	Error Submitting Work Report If in step 6 of the normal flow there was an error with the submitting of the Work Report, then 1. The system shall display an error message, saying there was a problem with submitting the Work Report. 2. The use case ends with a failure condition.

4.4.5 View Work Report

Actors	Student	
Description	This use case describes how the Student uses the Co-op Evaluation System to view a Work Report that was previously submitted.	
Trigger	Student has a Work Report that has been submitted, and they want to view.	
Pre-conditions	The Student has an active Internet connection. The Student has previously submitted a Work Report.	
Post-conditions	The desired Work Report is displayed to the Student.	
Normal Flow	 The Student selects "View Co-op Evaluation & Report". Use Case: Validate User is performed. The Student selects a Work Report that has previously been submitted. The system displays the Work Report to the Student. The use case ends successfully. 	
Alternative Flows	N/A	
Exceptions	Invalid User	

If in step 2 of the normal flow Student the use case: Validate User does not complete successfully, then

1. The use case ends with a failure condition.

Error Displaying Work Report

If in step 4 of the normal flow there was an error displaying the Work Report, then

- 1. The system shall display an error message, saying there was a problem with displaying the Work Report.
- 2. The use case ends with a failure condition.

4.4.6 View Employer Evaluation

Actors	Student		
Description	This use case describes how the Student uses the Co-op Evaluation System to view an Employer Evaluation that was previously submitted.		
Trigger	Student has an Employer Evaluation that has been submitted, and they want to view.		
Pre-conditions	The Student has an active Internet connection. The Student has a previously submitted Employer Evaluation.		
Post-conditions	The desired Employer Evaluation is displayed to the Student.		
Normal Flow	 The Student selects "View Co-op Evaluation & Report". Use Case: Validate User is performed. The Student selects an Employer Evaluation that has previously been submitted. The system displays the Employer Evaluation to the Student. The use case ends successfully. 		
Alternative Flows	N/A		
Exceptions	Invalid User If in step 2 of the normal flow Student the use case: Validate User does not complete successfully, then 1. The use case ends with a failure condition. Error Displaying Work Report If in step 4 of the normal flow there was an error displaying the Employer Evaluation, then 1. The system shall display an error message, saying there was a problem with displaying the Employer Evaluation. 2. The use case ends with a failure condition.		

5 External Interface Requirements

5.1 User Interfaces

The system's user interfaces will need to look and feel like they belong to RIT. This means that they should have a similar layout, color scheme, and other visual aspects as other school sites. However, the system should also utilize modern web design standards of layout and interaction.

Since the system is a web application, the user interface must be consistent across all modern desktop browsers, specifically Chrome, Firefox, Safari, and Internet Explorer 9+. Additionally, the system will take advantage of Twitter Bootstrap to create a responsive user interface, thus allowing users to access the system on a variety of devices. This in-turn requires that the system be accessible and usable on mobile platforms (e.g. smart phones and tablets). If a feature is not accessible from a mobile device the user interface must display an error message that clearly explains what cannot be done and why.

5.2 Software Interfaces

The product will interact with Shibboleth in order to authenticate users. Our system will take in log-in credentials from the user, and send those credentials to Shibboleth to verify. Shibboleth will then return the type of user, which will be used by our program to give the user specific permissions.

The existing ITS Oracle database will be used to import previous data into a newly created table.

5.3 Communications Interfaces

Submission of form data must persist to the database. The website must inform the user that their data was not properly stored in the database, and allow for resubmission. MyBatis will be used for database access from our system.

The system must interface with ITS mail servers in order to send out notification emails to students and employers.

The system will communicate over the standard protocols of HTTP and TCP/IDP. For accessing secure sections of the system, HTTPS will be used. Shibboleth will be used to authenticate users.

6 Non-functional Requirements

6.1 Performance Requirements

Number	Priority	Requirement
PR-01	High	The system shall respond to requests within 3 seconds.
PR-02	Medium	The system shall be able to handle up to 6,000 users at a time.
PR-03	Medium	The system shall load all web pages in less than 30 seconds, with the exception of reports.

6.2 Security Requirements

Number	Priority	Requirement
SE-01	High	The system shall require users to authenticate against Shibboleth with their RIT user IDs in order to access the system.
SE-02	High	The system shall not allow employers to view evaluations for a student that is not currently working for him/her.

6.3 Safety Requirements

Number	Priority	Requirement
SA-01	High	The system shall ensure integrity of its data upon database failure.
SA-02	High	Inputted user data shall not be lost.

6.4 Usability Requirements

Number	Priority	Requirement
UR-01	Medium	The system shall be usable from all major up-to-date web browsers (latest version of Chrome, latest version of Firefox, latest version of Safari, and IE 9+).
UR-02	Low	The system shall be accessible from mobile devices.

6.5 Availability Requirements

Number	Priority	Requirement
AR-01	High	The system shall be available 95% of the time.

AR-02	High	The system shall not time out during the evaluation submission more than 5% of the time.	
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6.6 Modifiability Requirements

Number	Priority	Requirement
MR-01	High	The system shall be modifiable for future updates.
MR-02	High	The system shall allow new colleges to be added to the system.
MR-03	High	The system shall allow new departments to be added to the system.

6.7 Documentation Requirements

Number	Priority	Requirement
DR-01	Medium	The system shall include a test plan, including up to 95% code coverage.
DR-02	High	The system shall include a user manual that describes to users how to use the system.

6.8 Environment Requirements

Number	Priority	Requirement
EN-01	High	The system shall run on the ITS-provided VM at final release.

Appendix A: Glossary

Term	Definition
CES	Co-op Evaluation System
Evaluation	A form that is currently being filled out by a student or by an employer
EWA	Enterprise Web Applications, a division of ITS
Form	A template that is used to generate an evaluation for a department
ITS	Information and Technology Services
Notification	An email message that will be generated and sent to students and/or employees.
OCSCE	Office of Cooperative Education and Career Services
Report	An aggregation of submissions used to display statistics
RIT	Rochester Institute of Technology
SRS	Software Requirements Specification
Submission	A form that has been completed and submitted to the evaluator
Status	The current state of the evaluation

Appendix B: Issues List

The team is using Trello to track issues; however, below you will find a high-level list of outstanding issues with this document. If finer detail is required, please reference the team Trello board, activity tracker, and/or Google Drive.

Number	Priority	Description