

ITS Graphical Report Maker

Acceptance Test Plan

9 February 2004

Team JACT Software RIT Software Engineering Department

Version 1.1.1



Revision History

| Revision | Date | Author | Section | Comments/Changes |
|----------|------------|------------|---------|--------------------|
| 0.1.0 | 8 Feb 2004 | J. Myers | All | Template Creation |
| 1.0.0 | 8 Feb 2004 | All | All | Initial Revision |
| 1.1.0 | 8 Feb 2004 | A. Buehler | All | Compilation of |
| | | | | Initial Revision |
| 1.1.1 | 9 Feb 2004 | C. Chiou | All | Update and |
| | | | | Formatting Changes |
| | | | | |
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| | | | | |
| | | | | |
| | | | | |

| Test Case ID: | TC-1 | Original Author: | John Myers | Last Updated By: | Cheng-Train Chiou | | |
|---------------------|--|------------------|------------|------------------|-------------------|--|--|
| Parent Use Case ID: | UC-1 | Original Date: | 2/08/04 | Last Updated On: | 2/09/04 | | |
| Test Objective | To test the function of logging into the GRM system. | | | | | | |

| Item | Test Condition | Operator Action | Input | Output Specifications | Pass | Comments |
|------|------------------|----------------------|--------------------|-----------------------------------|---------|----------|
| No. | | | Specifications | (Expected Result) | or Fail | |
| 1 | Successful Login | 1 - Selects "Log | 1 - System ready | 1 - System prompts user for login | | |
| | | into System" | for login. | information. | | |
| | | 2 - Enters | 2 - Valid | 2 - System acknowledges entering | | |
| | | Username | Username | of username. | | |
| | | 3 - Enters Password | 3 - Valid Password | 3 - System acknowledges entering | | |
| | | 4 - Selects "Login." | | of password. | | |
| | | | | 4 - System displays "Main | | |
| | | | | Menu." | | |
| 2 | Invalid Username | 1 - Selects "Log | 1 - System ready | 1 - System prompts user for login | | |
| | | into System" | for login. | information. | | |
| | | 2 - Enters | 2 - Invalid | 2 - System acknowledges entering | | |
| | | Username | Username | of username. | | |
| | | 3 - Enters Password | 3 - Valid Password | 3 - System acknowledges entering | | |
| | | 4 - Selects "Login." | | of password. | | |
| | | | | 4 - System displays "Invalid | | |
| | | | | Username" error message and | | |
| | | | | returns to step 1. | | |

| 3 | Invalid Password | 1 - Selects "Log | 1 - System ready | 1 - System prompts user for login |
|---|------------------|----------------------|------------------|-----------------------------------|
| | | into System" | for login. | information. |
| | | 2 - Enters | 2 - Valid | 2 - System acknowledges entering |
| | | Username | Username | of username. |
| | | 3 - Enters Password | 3 - Invalid | 3 - System acknowledges entering |
| | | 4 - Selects "Login." | Password | of password. |
| | | | | 4 - System displays "Invalid |
| | | | | Password" error message and |
| | | | | returns to step 1. |

| Test Case ID: | TC-2 | Original Author: | John Myers | Last Updated By: | Cheng-Train Chiou | | |
|---------------------|--|------------------|-----------------|------------------|-------------------|--|--|
| Parent Use Case ID: | UC-2 | Original Date: | 8 February 2004 | Last Updated On: | 2/09/04 | | |
| Test Objective | To test the function of logging off of the GRM system. | | | | | | |

| Item | Test Condition | Operator Action | Input | Output Specifications | Pass | Comments |
|------|-------------------|----------------------|----------------|------------------------------------|---------|----------|
| No. | | | Specifications | (Expected Result) | or Fail | |
| 1 | Successful Logoff | 1 - Selects "Log off | | 1 - System acknowledges logoff | | |
| | | from System." | | request and displays login | | |
| | | | | window. | | |
| 2 | Close Program | 1 - Closes program | | 1 - System automatically logs user | | |
| | | without logging | | off of system upon program | | |
| | | off. | | termination. | | |

| Test Case ID: | TC-3 | Original Author: | Cesario Tam | Last Updated by: | Cheng-Train Chiou |
|---------------------|----------------------|----------------------|-------------------------|-----------------------|-------------------|
| Parent Use Case ID: | UC-3 | Original Date: | 2/08/04 | Last Updated | 2/09/04 |
| | | | | On: | |
| Test Objective: | To test the function | n Create Element, th | e associated exceptions | s and alternative cou | irses. |

| Item | Test Condition | Operator | Input Specifications | Output Specifications | Pass | Comments |
|------|----------------|-------------------|-----------------------------|--------------------------|---------|-----------------|
| No. | | Action | | (Expected Result) | or Fail | |
| 1 | Successful | 1 – Select | 1 – Valid Element attribute | 1 - System responds by | | Re-execute test |
| | Creation | Create Element | values. | displaying the Create | | with insertion |
| | | from Main | | Element screen. | | of different |
| | | Menu. | | 2 – System asks user | | Element types. |
| | | 2 - Insert an | | what Element is being | | |
| | | Element. | | inserted. | | Verify that |
| | | 3 - Select an | | 3 – System asks user | | system does in |
| | | Element. | | for the attribute values | | fact check that |
| | | 4 - Enter | | of the selected Element. | | the attribute |
| | | attribute values. | | 4 – System verifies the | | values being |
| | | 5 – Return to | | attribute values. | | entered are |
| | | Create Element | | | | correct. |
| | | screen. | | | | |

| С | Unguogo ful | 1 – Select | 1 Involid Flomont attribute | 1 System responses | Do orcour | to toot |
|---|-------------------|-------------------|-------------------------------|--------------------------|-------------|---------|
| 2 | Unsuccessful | | 1 – Invalid Element attribute | 1 – System responses | Re-execu | |
| | Creation due to | Create Element | values. | by displaying the | with inser | |
| | invalid attribute | from Main | | Create Element screen. | of differen | nt |
| | values | Menu. | | 2 – System asks user | Element t | ypes. |
| | | 2 - Insert an | | what Element is being | | |
| | | Element | | inserted. | Verify that | at the |
| | | 3 - Select an | | 3 – System asks user | system al | lows |
| | | Element. | | for the attribute values | reentry af | ter |
| | | 4 - Enter | | of the selected Element. | notifying | user |
| | | attribute values. | | 4 – System rejects the | of the inv | alid |
| | | 5 – Return to | | creation and notifies | attribute | |
| | | Create Element | | the user that the | values. | |
| | | screen. | | attribute values are | | |
| | | | | invalid. | | |
| 3 | Unsuccessful | 1 – Select | 1 – Valid Element attribute | 1 – System responses | | |
| - | Creation due to | Create Element | values. | by displaying the | | |
| | user | from Main | | Create Element screen. | | |
| | cancellation | Menu. | | 2 - System returns to | | |
| | | 2 - Click | | Main Menu screen. | | |
| | | Cancel. | | intum menu sereen. | | |
| | | | | | | |
| | | | | | | |

| Test Case ID: | TC-4 | Original Author: | Cesario Tam | Last Updated by: | Cheng-Train Chiou | | |
|---------------------|---|------------------|-------------|------------------|-------------------|--|--|
| Parent Use Case ID: | UC-4 | Original Date: | 2/08/04 | Last Updated On: | 2/09/04 | | |
| Test Objective: | To test the function Modify Element, the associated exceptions and alternative courses. | | | | | | |

| Item | Test Condition | Operator | Input Specifications | Output Specifications | Pass | Comments |
|------|----------------|-------------------|------------------------------|--------------------------|---------|-----------------|
| No. | | Action | | (Expected Result) | or Fail | |
| 1 | Successful | 1 – Select | 1 – Valid Element attributes | 1 - System asks user to | | Re-execute test |
| | Modification | Modify | values. | select an Existing | | with |
| | | Element from | | Element. | | modification of |
| | | Main Menu. | | 2 – System displays | | different |
| | | 2 - Select an | | Modify Element | | Element types. |
| | | Element. | | screen. | | |
| | | 3 - Enter new | | 3 – System asks user | | Verify that |
| | | attribute values. | | for the attribute values | | system does in |
| | | 4 - Return to | | of the selected Element. | | fact check for |
| | | Create Element | | 4 – System verifies the | | the attribute |
| | | screen. | | attribute values. | | values being |
| | | | | | | entered are |
| | | | | | | correct. |

| 2 | TT C1 | 1 0 1 4 | 1 T 1'1 T1 4 44 '1 4 | | |
|---|------------------|-------------------|--------------------------------|----------------------------|-----------------|
| 2 | Unsuccessful | 1 – Select | 1 – Invalid Element attributes | 1 - System asks user to | Re-execute test |
| | Modification | Modify | values. | select an Existing | with |
| | due to invalid | Element from | | Element. | modification of |
| | attribute values | Main Menu. | | 2 – System displays | different |
| | | 2 - Select an | | Modify Element | Element types. |
| | | Element | | screen. | |
| | | 3 - Enter new | | 3 – System asks user | Verify that the |
| | | attribute values. | | for the attribute values | system allows |
| | | 4 - Return to | | of the selected Element. | reentry after |
| | | Create Element | | 4 – System rejects the | notifying user |
| | | screen. | | modification and | of the invalid |
| | | | | notifies the user that the | attribute |
| | | | | new attribute values are | values. |
| | | | | invalid. | |
| 3 | Unsuccessful | 1 – Select | 1 – Valid Element attributes | 1 - System asks user to | |
| | Modification | Modify | values. | select an Existing | |
| | due to user | Element from | | Element. | |
| | cancellation | Main Menu. | | 2 – System displays | |
| | | 2 – Select an | | Modify Element | |
| | | Element. | | screen. | |
| | | 3 – Click | | 3 – System returns to | |
| | | Cancel. | | Main Menu. | |

Test Objective

| Test Case ID: | TC-5 | Original Author: | John Myers | Last Updated By: | Cheng-Train Chiou |
|---------------------|------|------------------|-----------------|------------------|-------------------|
| Parent Use Case ID: | UC-5 | Original Date: | 8 February 2004 | Last Updated On: | 2/09/04 |

To test the function of previewing elements in the GRM system.

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|------------|-------------------|------------------|--------------------|------------------------------------|---------|----------------|
| Item | Test Condition | Operator Action | Input | Output Specifications | Pass | Comments |
| No. | | | Specifications | (Expected Result) | or Fail | |
| 1 | Successful | 1 - Selects | 1 - User has | 1 - System displays table with | | |
| | Preview of | "Preview | created a Rover, | data from Element to be | | |
| | Tabular Element. | Element" option. | Tabular Generator, | previewed. | | |
| | | _ | or Report with a | | | |
| | | | Tabular Generator. | | | |
| 2 | Successful | 1 - Selects | 1 - User has | 1 - System displays graph with | | |
| | Preview of | "Preview | created a | data from Element to be | | |
| | Graphical | Element" option. | Graphical | previewed. | | |
| | Element. | | Generator or a | | | |
| | | | Report with a | | | |
| | | | Graphical | | | |
| | | | Generator | | | |
| 3 | Unsuccessful | 1 - Selects | 1 - User has | 1 - System displays message | | |
| | Preview of | "Preview | created an Element | indicating the Element is not | | |
| | Element That is | Element" option. | not composed of a | preview-able. | | |
| | Not Preview-able. | 1 | Rover or a | 1 | | |
| | | | Generator. | | | |
| 4 | Unsuccessful | 1 - Selects | 1 - User has | 1 - System displays message | | Not Composed |
| | Preview of | "Preview | created an Element | indicating that the Element cannot | | Correctly = |
| | Element That is | Element" option. | that is not | be previewed due to errors. | | Connections |
| | Preview-able, but | | composed | | | are missing |
| | With Errors. | | correctly. | | | between |
| | with Lifuis. | | concerty. | | | |
| | | | | | | Elements, etc. |

| Test Case ID: | TC-6 | Original Author: | Adam Buehler | Last Updated By: | Cheng-Train Chiou | | |
|---------------------|--|------------------|--------------|------------------|-------------------|--|--|
| Parent Use Case ID: | UC-6 | Original Date: | 2/08/04 | Last Updated On: | 2/09/04 | | |
| Test Objective | To test the systems ability to save Elements | | | | | | |

| Item | Test Condition | Operator Action | Input | Output Specifications | Pass | Comments |
|------|-----------------|-------------------|--------------------|----------------------------------|---------|------------------|
| No. | | | Specifications | (Expected Result) | or Fail | |
| 1 | Successful save | 1 – Select "Save" | 1 – Save name is | 1 – System prompts for save | | Execute test for |
| | | 2 – Enter save | unique | name. | | all Element |
| | | name | 2 – Element | 2 – System saves Element. | | types. |
| | | 3 – Select "Save" | attribute values | 3 – System displays main menu. | | |
| | | | have been verified | | | |
| 2 | Non-unique save | 1 – Select "Save" | 1 – Save name is | 1 – System prompts for save | | Execute test for |
| | name with | 2 – Enter save | not unique | name. | | all Element |
| | overwrite | name | 2 – Element | 2 – System notifies user of non- | | types. |
| | confirmed | 3 – Select "Save" | attribute values | unique save name. | | |
| | | 4 – Select | have been verified | 3 – System prompts for overwrite | | |
| | | "Overwrite" | | or rename. | | |
| | | 5 – Select | | 4 – System prompts for | | |
| | | "Confirm" | | confirmation of overwrite | | |
| | | | | 5 – System saves Element. | | |
| | | | | 6 – System displays main menu. | | |

| 3 | Non-unique save name with overwrite denied | 1 - Select "Save" 2 - Enter save name 3 - Select "Save" 4 - Select "Overwrite" 5 - Select "Deny" | 1 – Save name is not unique 2 – Element attribute values have been verified | 1 – System prompts for save name. 2 – System notifies user of non- unique save name. 3 – System prompts for overwrite or rename. 4 – System prompts for confirmation of overwrite. 5 – System prompts for save name. | Execute test for all Element types. |
|---|--|--|--|--|---|
| 4 | Non-unique save | 1 – Select "Save" | 1 - Save name is | 1 – System prompts for save | Execute test for |
| | name with rename | 2 – Enter save | not unique | name. | all Element |
| | | name | 2 – Element | 2 – System notifies user of non- | types. |
| | | 3 – Select "Save" | attribute values | unique save name. | |
| | | 4 – Select | have been verified | 3 – System prompts for overwrite | |
| | | "Rename" | | or rename. | |
| | | 5 – Enter save | | 4 – System prompts for save name | |
| | | name | | 5 – System saves Element. | |
| | | 6 – Select "Save" | | 6 – System displays main menu. | |
| 5 | Cancellation of | 1 – Select "Save" | 1 – Element | 1 – System prompts for save | |
| | save | 2 – Select | attribute values | name. | |
| | | "Cancel" | have been verified | 2 – System returns to pre-save | |
| | | | | state. | |

| Test Case ID: | TC-7 | Original Author: | Adam Buehler | Last Updated By: | Cheng-Train Chiou | | |
|---------------------|--|------------------|--------------|------------------|-------------------|--|--|
| Parent Use Case ID: | UC-7 | Original Date: | 2/08/04 | Last Updated On: | 2/09/2004 | | |
| Test Objective | To test the systems ability to delete Elements | | | | | | |

| Item | Test Condition | Operator Action | Input | Output Specifications | Pass | Comments |
|------|-----------------|--------------------|-------------------|-------------------------------|---------|----------|
| No. | | _ | Specifications | (Expected Result) | or Fail | |
| 1 | Successful | 1 – Select "Delete | 1 – Valid element | 1 – System prompts for | | |
| | deletion | Element" | name given. | Element(s) to be deleted. | | |
| | | 2 – Select | | 2 – System prompts for | | |
| | | Element(s) to be | | confirmation of deletion | | |
| | | deleted | | 3 – System removes Element(s) | | |
| | | 3 – Select | | 4 – System displays main menu | | |
| | | "Delete" | | | | |
| | | 4 – Select | | | | |
| | | "Confirm" | | | | |
| 2 | Deletion denied | 1 – Select "Delete | 1 – Valid element | 1 – System prompts for | | |
| | | Element" | name given. | Element(s) to be deleted. | | |
| | | 2 – Select | | 2 – System prompts for | | |
| | | Element(s) to be | | confirmation of deletion | | |
| | | deleted | | 3 – System prompts for | | |
| | | 3 – Select | | Element(s) to be deleted. | | |
| | | "Delete" | | | | |
| | | 4 – Select "Deny" | | | | |

| 3 | Invalid name given | 1 - Select "Delete Element" 2 - Select Element(s) to be deleted 3 - Select "Delete" 4 - Select "OK" | 1 – Invalid element name given. | 1 – System prompts for Element(s) to be deleted. 2 – System notifies user of invalid name 2 – System prompts for Element(s) to be deleted. | | |
|---|-----------------------|---|---------------------------------------|--|--|--|
|---|-----------------------|---|---------------------------------------|--|--|--|

| Test Case ID: | TC-8 | Original Author: | Cheng-Train Chiou | Last Updated By: | Cheng-Train Chiou | | |
|---------------------|---|------------------|-------------------|------------------|-------------------|--|--|
| Parent Use Case ID: | UC-8 | Original Date: | 2/08/04 | Last Updated On: | 2/09/04 | | |
| Test Objective: | To test the function Execute Report, the associated exceptions and alternate courses. | | | | | | |

| Item | Test Condition | Operator Action | Input | Output Specifications | Pass | Comments |
|------|---------------------|-------------------|--------------------|----------------------------------|---------|----------|
| No. | | | Specifications | (Expected Result) | or Fail | |
| 1 | Successful | 1 - Select | 1 - Export Report | 1 - System prompts user for a | | |
| | execution of | "Execute Report" | option available. | report name. | | |
| | report. | option. | 2 - Valid report | 2 - System generates a report. | | |
| | | 2 - Enter valid | name. | | | |
| | | Report name. | | | | |
| 2 | Successful | 1 - Select | 1 - Export Report | 1 - System prompts user for a | | |
| | execution of report | "Execute Report" | option available. | report name. | | |
| | after entering an | option. | 2 - Invalid report | 2 - System prompts user for a | | |
| | invalid report | 2 - Enter invalid | name. | report name. | | |
| | name. | report name. | 3 - Valid report | 3 - System generates a report. | | |
| | | 3 - Enter valid | name. | | | |
| | | report name. | | | | |
| 3 | Cancellation of an | 1 - Select | 1 - Export Report | 1 - System prompts user for a | | |
| | execution of | "Execute Report" | option available. | report name. | | |
| | report. | option. | 2 - Cancel option | 2 - System returns to main menu. | | |
| | | 2 - Select | available. | | | |
| | | "Cancel" option. | | | | |

| Test Case ID: | TC-9 | Original Author: | Cheng-Train Chiou | Last Updated By: | Cheng-Train Chiou | | |
|---------------------|---|------------------|-------------------|------------------|-------------------|--|--|
| Parent Use Case ID: | UC-9 | Original Date: | 2/08/04 | Last Updated On: | 2/09/04 | | |
| Test Objective: | Test Objective: To test the function Export Report Data, the associated exceptions and alternate courses. | | | | | | |

| Item | Test Condition | Operator Action | Input | Output Specifications | Pass | Comments |
|------|----------------------|--------------------|--------------------|----------------------------------|---------|----------|
| No. | | | Specifications | (Expected Result) | or Fail | |
| 1 | Successful export | 1 - Select "Export | 1 - Export Report | 1 - System prompts user for an | | |
| | of report data. | Report Data" | Data option | export name. | | |
| | | option. | available. | 2 - System exports report data. | | |
| | | 3 - Enter valid | 2 - Valid export | | | |
| | | Export name. | name. | | | |
| 2 | Successful export | 1 - Select | 1 - Export Report | 1 - System prompts user for an | | |
| | of report data after | "Execute Report" | Data option | export name. | | |
| | entering an invalid | option. | available. | 2 - System prompts user for an | | |
| | report name. | 2 - Enter invalid | 2 - Invalid export | export name. | | |
| | | Export name. | name. | 3 - System exports report data. | | |
| | | 3 - Enter valid | 3 - Valid export | | | |
| | | Export name. | name. | | | |
| 3 | Cancellation of an | 1 - Select "Export | 1 - Export Report | 1 - System prompts user for a | | |
| | export of report | Report Data" | Data option | report name. | | |
| | data. | option. | available. | 2 - System returns to main menu. | | |
| | | 2 - Select | 2 - Cancel option | | | |
| | | "Cancel" option. | available. | | | |

Quality Control Checklist

| | | Response | | | |
|-----|---|----------|----|-----|----------|
| # | Item | Yes | No | N/A | Comments |
| 1. | Has acceptance testing been incorporated into the test plan? | | | | |
| 2. | Is acceptance testing viewed as a project process, rather than as a single step at | | | | |
| | the end of testing? | | | | |
| 3. | Is the acceptance test plan consistent with the acceptance criteria? | | | | |
| 4. | Have appropriate interim products been reviewed by the acceptance testers | | | | |
| | before being used for the next implementation task? | | | | |
| 5. | Have the appropriate testing techniques been selected for acceptance testing? | | | | |
| 6. | Have adequate resources for performing acceptance testing been allocated? | | | | |
| 7. | Have interim acceptance opinions been issued? | | | | |
| 8. | Has the project team reacted positively to the acceptance testers' concerns? | | | | |
| 9. | Has a final acceptance decision been made? | | | | |
| 10. | Is that decision consistent with the acceptance criteria that have been met and not | | | | |
| | met? | | | | |
| 11. | Have the critical acceptance criteria been identified? | | | | |
| 12. | Are the requirements documented in enough details that the software interfaces | | | | |
| | can be determined? | | | | |
| 13. | Do the users of the software agree that the use case definitions are complete? | | | | |
| 14. | Have at least two test cases been prepared for each use case? | | | | |
| 15. | Have both a successful and unsuccessful test condition been identified for each | | | | |
| | use case? | | | | |
| 16. | Do the users of the software agree that the Acceptance Test Plan identifies all the | | | | |
| | probable scenarios? | | | | |

Contribution From: Perry, William E. Effective Methods for Software Testing. 2nd ed. New York: John Wiley & Sons, 2000. 487-488.