



ITS Graphical Report Maker Project

Phase Gate Presentation:
Initiate

19 December 2003
John Myers
JACT Software

1

Agenda

- The Development Team
- High-Level Requirements and Objectives
- Deliverables
- Planning and Schedule
- Risks
- Resources
- Conclusions and Status



2

The Development Team

- Adam Buehler, Team Leader
- John Myers, Customer Liaison
- Cheng-Train Chiou, Planning Leader
- Cesario Tam, Development Leader

- Dr. James Vallino, Faculty Advisor



3

Deliverables

- **Planning and Strategy**
 - Provide an overview of the project, including the group's approach to its completion.
 - A description for each deliverable and its completion date.
- **High Level Requirements**
 - Provide an overview of the stakeholder's requirements and a statement of need.
- For other phase deliverables, please refer to Page 5 of the "Planning and Strategy" document.



4

Project Objectives

- Provide ITS with a new medium to generate graphical reports for upper management review and technical analysis.
- Provide the ability to generate reports using the data from a provided database.
- Allow access to all reports online around-the-clock.



5

Requirements

The Graphical Report Maker (GRM) should be able to:

- Build queries through a web client.
- Modify the graph's look-and-feel.
- Export report data as a text file and graph as an image.
- Statistically analyze the data.
- Provide an interface that supports scriptable execution of the program.



6

A Typical User Scenario

1. System Administrator creates query and graph for a specific measure with the GRM web client. (ie, mail server send latency)
2. Script running continuously on web server tells the GRM to create an up-to-date graph. (ie, last 10 minutes of data)
3. Web page displays latest information regarding the query.



7

Phase Gate Planning

- Please see Page 6 of "Planning and Strategy" document for detailed project schedule.

Phase	Completion Date
Analyze	30 Jan 04
Design	25 Feb 04
Develop	02 Apr 04
Test	23 Apr 04
Deploy	07 May 04



8

Operating Environment Resources

- The GRM server shall operate on an ITS computer that is running UNIX and MySQL.
- The GRM Administrator client shall run on any external computer with an Internet browser with Java Applet support.
- Reports generated by the GRM shall require no non-standard software.



9

Assumptions and Dependencies

- The physical database and schema are already defined and created by ITS. The Graphical Report Maker will be designed to function properly with this database.
- The graphing algorithm package utilized by the system may be acquired from an outside software vendor.



10

Risk Management

- RISK: Accuracy of Development and Testing Platform
- PRIORITY: Medium
- Access to database system and data without interfering with production machines.
- ✓ Create a "Snapshot" of ITS Production database and develop independently.



11

Risk Management

- RISK: Accuracy of Development and Testing Platform
- MITIGATION:
 1. Remain in contact with ITS to ensure that no changes have been made to the production machine that need to be replicated in the test setup.
 2. Ensure that test machines are representative at all times of ITS machines.



12

Risk Management

- RISK: Cost
- PRIORITY: High
- To ensure a quality product at minimal costs, a review is being conducted into integrating external commercial products into the GRM system.
- ✓ Find an off-the-shelf graphing algorithm package that meets ITS graphing requirements and adapt that into the GRM System.



13

Risk Management

- RISK: Cost
- MITIGATION:
 1. Present information to ITS in regards to how the off-the-shelf product will aid in the development of the GRM System.
 2. Please note the document "Commercial Graphing Package Technical Proposal" for mitigation reasoning.



14

Risk Mitigation

- RISK: Scope of the Project versus Time Allowed
- PRIORITY: High
- Time available limited to two academic quarters here at RIT.
- ✓ Must ensure that the features placed into the end product can fit properly into the timeline.



15

Risk Mitigation

- RISK: Scope of the Project versus Time Allowed
- MITIGATION:
 1. Prepare a project plan with a well defined project schedule.
 2. Ensure that team remains on schedule at all times.
 3. Create a detailed SRS to avoid creeping requirements.



16

Risk Management

- Continuous tracking of issues and risks throughout project.
- Overall Objective: Ensure that no risk goes unaddressed.
- Please refer to Page 7 of the “Planning and Strategy” document for further analysis of identified risks.



17

Resources Required

- ITS Personnel Expertise On:
 - LDAP Authentication
 - Connectivity to ITS Controlled Databases
 - Project Management Expectations
- Following a review of the “Commercial Graphing Packages Technical Proposal,” a decision on monetary resources will need to be made.



18

Conclusions and Status

- Currently on schedule for next phase gate.
- Customer elicitation progressing and helping to further define the graphing requirements of the system for our Software Requirements and Specification document.
- Test Scenarios to be completed in next phase based upon Use Cases.
- Requirements currently within scope for on-time completion of the project.



19

Team Website

- You may track the project status at:
 - <http://www.se.rit.edu/~jact>
- Questions?



20