



# ITS Graphical Report Maker Project

Phase Gate Presentation:  
Analyze

12 February 2003  
Department of Software Engineering  
Team JACT

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## Agenda

- Project Description and Scope
- Milestones of Phase
- Budget and Resources Required
- Updated Schedule
- Pending Issues
- Requirements Elicitation Methodology
- Questions



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## Project Description

- Develop a tool set which will allow users to create reports containing self-selected or canned data elements and presenting them in a manner the user sees fit.
- Reports will be displayed on a web browser in standard graphical forms.



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## Scope of the Project

- To provide a new medium to generate graphical reports for upper management review and technical analysis.
- To provide the ITS staff the ability to generate graphical reports using the data from the provided database.
- To allow around-the-clock, online access to all reports that have been prepared in advance and executed on-the-fly.



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## User Scenario

- ITS Staff logs into GRM System.
- User creates and saves a query to the database using the Graphical Query Builder.
- User creates a Graph and saves the report to be executed.
- Script running on another system tells the GRM System to create an updated graph every 5 minutes.
- GRM System places JPG image of Graph on web server for viewing by the public.



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## Milestones of Phase Analyze

- Three Document Deliverables:
  - Software Requirements Specifications
  - Acceptance Test Plan
  - Operational Testing Scenario



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## Outcomes: SRS

- Software Requirements Specification
  - Detailed Requirement Listing
    - Agreement between ITS and the Development Team.
  - Formal Definition of Report Construction using a Context-Free Grammar
  - Use Cases
  - GUI Prototypes
  - State Diagrams



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## Outcomes: ATP

- Acceptance Test Plan
  - Developed in unison with Requirements to ensure sufficient coverage of different permutations of problems that may arise within the software.
  - “Test Conditions” outline possible problems that may occur for each Use Case.



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## Outcomes: OTS

- Operational Testing Scenario
  - A Testing Script, typically used by a QA Lab Tester, that follows the Test Conditions outlined by the Acceptance Test Plan.
  - Provides actual data and possible outcomes.
  - Provides a Pass/Fail Value for GRM Testing.



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## Budget and Resources Required

- Budget—\$65US for R-Chart Software Package
- Resources—Customer Support Staff
  - Assistance with Server Setup
  - LDAP Authentication
  - Architecture and Design Constraint Discussion



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## Pending Issues

Issue	Date of Resolution
End-Of-Quarter Senior Project	19 February 2004
Meeting with ITS Support Staff	23 February 2004
Purchase of R-Chart Software	25 February 2004



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## Scheduling Changes

- Schedule pushed back approximately 1.5 weeks due to increased time Eliciting Requirements.
- End result of Schedule Change: Higher quality SRS and Test Plans.
- Future Phase Gate dates adjusted accordingly, but Deploy Phase still finished before drop-dead date at end of quarter.



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## Updated Schedule

<u>Phase Gate</u>	<u>Original Date</u>	<u>Updated Date</u>
Analyze	January 30 <sup>th</sup>	February 12 <sup>th</sup>
Design	February 25 <sup>th</sup>	March 12 <sup>th</sup>
Develop	April 2 <sup>nd</sup>	April 23 <sup>rd</sup>
Test	April 23 <sup>rd</sup>	May 7 <sup>th</sup>
Deploy	May 7 <sup>th</sup>	May 21 <sup>st</sup>



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## Elicitation Methodology

- Customer Interviews
  - Weekly meetings with Mark
  - Email correspondence
- Use Cases
- State Diagram
- GUI Prototypes
- Formal Model of Grammar



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# Requirements Management

- Demonstrate Borland Caliber RM Tool



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# Team Website

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



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