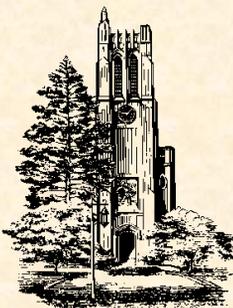# MICHIGAN STATE
U N I V E R S I T Y

Technical Specification / Schedule
Chrysler PFS Dashboard

Team 3: Chrysler
CSE 498, Collaborative Design

David Ackerman
Taylor Marshall
Julian Simioni
Meshal Alsahali

Department of Computer Science and Engineering
Michigan State University

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Project Overview

- Chrysler PFS Dashboard provides "feedback at a glance" for assembly plant quality issues.

- Similar to iGoogle or myYahoo functionality

- Displays configurable modules on screen for all types of users at Chrysler
  - Team leader on plant floor
  - Manager in office environment
  - Load of approximately 100 concurrent users

- Integrates into current reporting system

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Functional Specifications

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- Anonymous Dashboard View
  - User can view default modules if not logged-in
- Dashboard Modules
  - Set of 10 modules to be created
- User Customizability
  - Users can customize the number and order of modules
- Module Customizability
  - Users can customize each module to their needs and/or personal preferences.
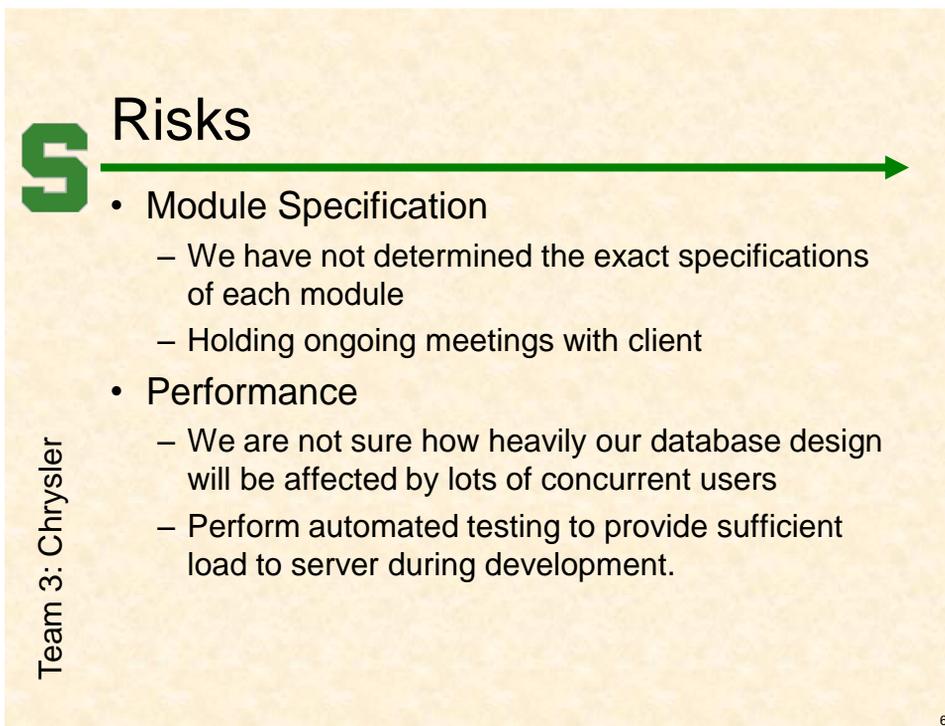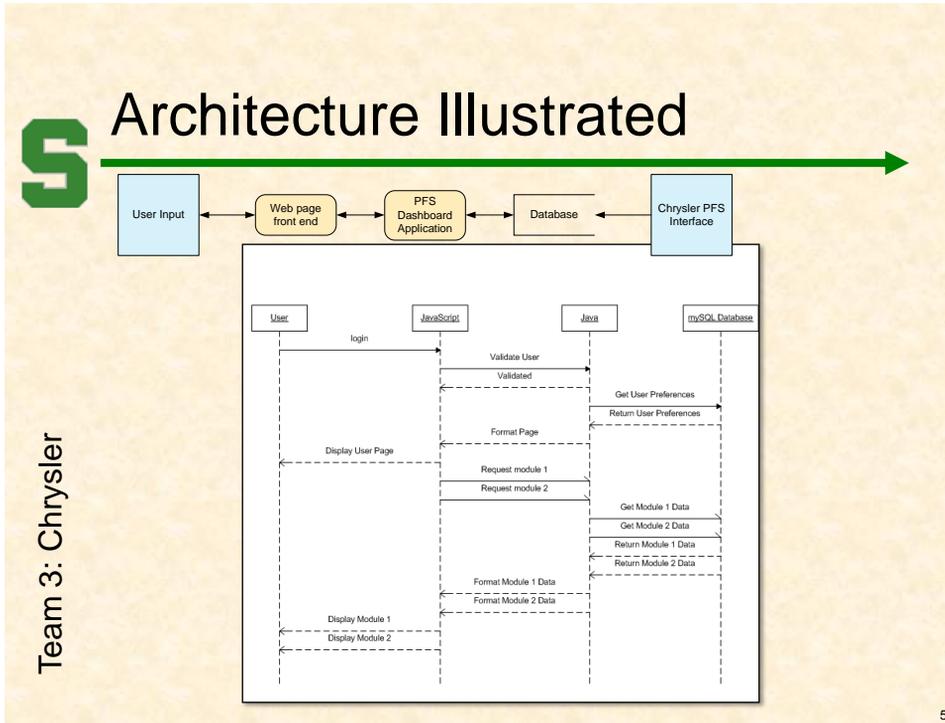- Extra Modules (optional)

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System Components

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- Hardware Platforms
  - Mainframe to handle current PFS system
  - Web Server running UNIX to handle website
- Software Platforms / Technologies
  - Development Environment
    - Windows Server 2003 running Tomcat and mySQL
  - Production Environment
    - UNIX server running Websphere and DB2 / UDB
  - Java EE code with JavaScript front end
  - jQuery, Flotr JavaScript Libraries

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Architecture Illustrated

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Risks

- Module Specification
  - We have not determined the exact specifications of each module
  - Holding ongoing meetings with client
- Performance
  - We are not sure how heavily our database design will be affected by lots of concurrent users
  - Perform automated testing to provide sufficient load to server during development.

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Project Schedule

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1. Client Review of Interface
   a) Goal: Client review of Drag-n-Drop interface with blank modules.
   b) Date: Sep 23rd
2. Java Prototype
   a) Goal: Java classes created to respond to AJAX calls
   b) Date: Sep 26th
3. Database Prototype
   a) Goal: At least one module created for testing
   b) Date: Oct 1st

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Project Schedule

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4. Client Review of Interface
   a) Goal: Anonymous Dashboard functionality
   b) Date: Oct 3rd
5. Alpha Build
   a) Goal: Anonymous Dashboard complete
   b) Date: October 6th
6. Create Modules
   a) Goal: Create 10 defined modules, 3 per week with client review. Complete User customization section
   b) Date: Oct 6th – 25th

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Project Schedule

7. Beta Build
   a) Goal: Feature complete (modules, db, interface)
   b) Date: Nov 3rd
8. Testing / User feedback
   a) Goal: Weekly client reviews, work on user doc and project video, unplanned features.
   b) Date: Nov 3rd – Dec 1st
9. Project Video
   a) Goal: Completed project video
   b) Date: Dec 1st
10. Project Complete
   a) Date: Dec 5th

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