Beta Presentation
Product Development Portfolio and Planning

The Capstone Experience
Team DRIVEN-4

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Spring 2019
Project Overview

• Gives an overview of portfolios that contain multiple projects.
• Provides graphs to view project plan forecast.
• Allows managers to track execution of a project to ensure timely completion and also keep track of resources/capacity.
• Allows project manager to define and baseline an interactive 10-year product plan.
• Allows employees to log their weekly hours.
System Architecture

- Xamarin
- Angular
- REST API
- ThingWorx
- PostgreSQL
- AWS
Process Flow

Project Manager

- Adds projects to a portfolio created by the Admin.
- Make changes to the project and portfolio during the planning process if needed.
- Manages the status of the portfolio.

Cost Center Manager

- Creates a yearly headcount for the budget obtained from the leadership.
- Creates and updates the cost center linked forecast for the portfolio.

• The Cost Center and Project Manager interact with each other through the system to agree on a forecast.
• Once all the above processes are done, the Project manager executes the portfolio and track its execution.
Web View Portfolios

Choose Portfolio Year
- 2019
- 2020
- 2021
- 2022

Choose Portfolio
- One
- Four
- Portfolio 1
- 2019 Active Portfolio

Project Details
- Project Name: Interior Design
- Project Name: Stress Testing
- Project Name: Materials Experiments

Cost Center Forecast | Audit Trails | Track Execution
# Web Cost Center Forecast

## Cost Center Forecast

### Interior Design
- **Technician**: $100
- **Expense**: 191
- **Capital**: 191

### Stress Testing
- **Engineer**: $200
- **Technician**: $110
  - 187, 199, 190, 197, 187, 178, 178, 198, 165, 165, 166, 178

### Materials Experiments
- **Engineer**: $200
- **Project Contractor**: $145
  - 178, 187, 165, 198, 200, 200, 200, 198, 178, 167, 197

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**Submit**  **Cancel**
Web Audit Trail

<table>
<thead>
<tr>
<th>Project: Materials Experiments</th>
<th>Department: Materials Lab</th>
<th>Role: Engineer</th>
<th>January Expense changed from 164 hours to 190 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project: Materials Experiments</td>
<td>Department: Materials Lab</td>
<td>Role: Project Contractor</td>
<td>July Capital changed from 191 hours to 188 hours</td>
</tr>
<tr>
<td>Project: Stress Testing</td>
<td>Department: Materials Lab</td>
<td>Role: Technician</td>
<td>January Expense changed from 187 hours to 180 hours</td>
</tr>
<tr>
<td>Project: Interior Design</td>
<td>Department: Materials Lab</td>
<td>Role: Technician</td>
<td>January Expense changed from 184 hours to 178 hours</td>
</tr>
</tbody>
</table>
Web Track Execution Graph
Web Gantt Chart
Mobile Track Execution And Timesheet
What’s left to do?

• Improve the UI of the application.
• Code Cleanup.
• Overall testing of the web and mobile app to identify any bugs.
Questions?