

MICHIGAN STATE

U N I V E R S I T Y

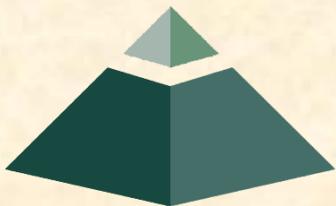
Beta Presentation

Product Development Portfolio and Planning

The Capstone Experience

Team DRIVEN-4

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*From Students...
...to Professionals*

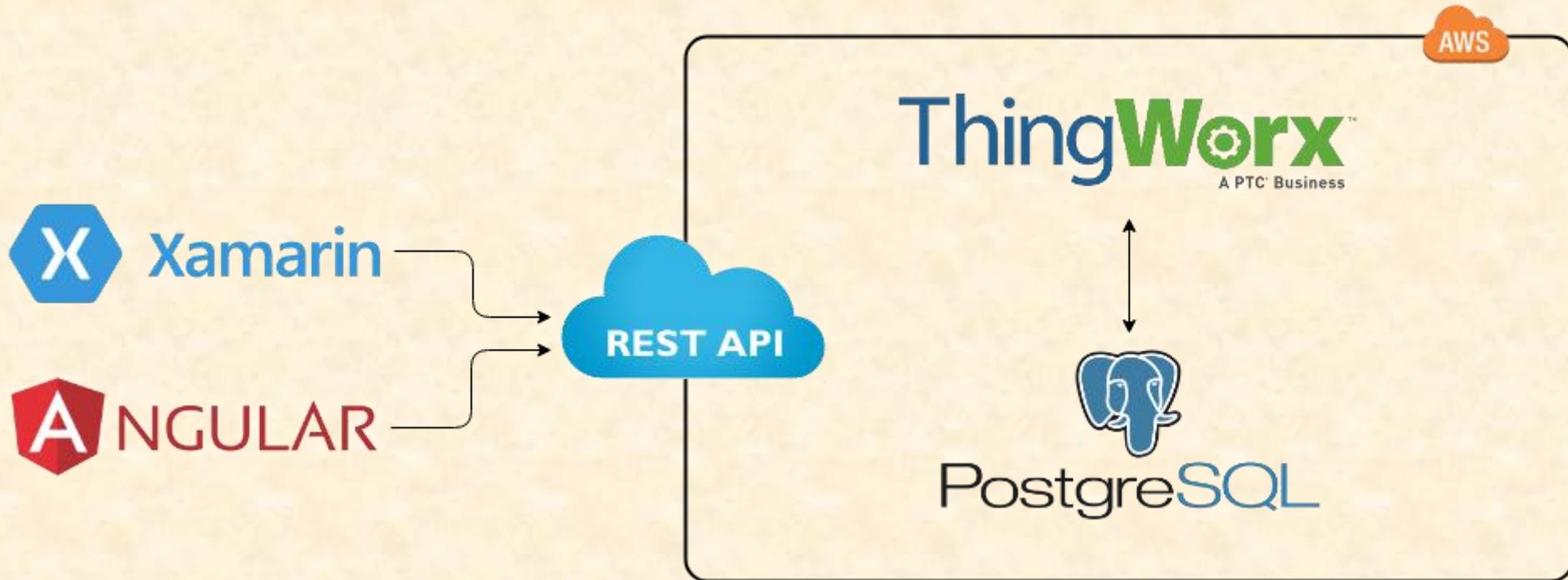
Department of Computer Science and Engineering
Michigan State University
Spring 2019

Project Overview

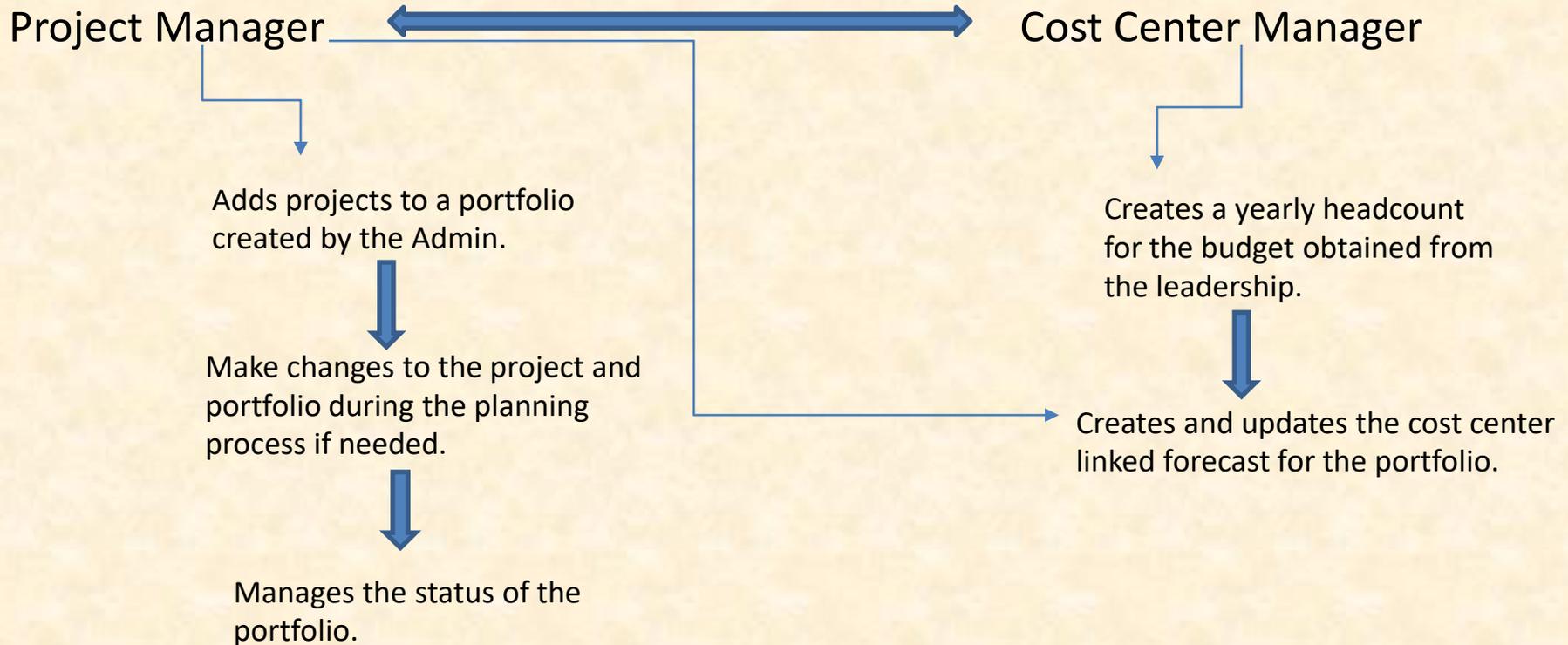
- Gives an overview of portfolios that contain multiple projects.
- Provides graphs to view project plan forecast.
- Allows managers to track execution of a project to ensure timely completion and also keep track of resources/capacity.
- Allows project manager to define and baseline an interactive 10-year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



System Architecture



Process Flow



- 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

The screenshot shows a web browser window with the URL `localhost:4200/viewPortfolios`. The page header includes the DRIVEN-4 logo and navigation links for Home, JohnAnderson@DRIVEN-4.com, and Log Out. The main content area is titled "View Portfolios" and contains three primary sections:

- Choose Portfolio Year:** A vertical list of buttons for the years 2019, 2020, 2021, and 2023.
- Choose Portfolio:** A vertical stack of buttons labeled "One", "Four", "Portfolio 1", and "2019 Active Portfolio". The "2019 Active Portfolio" button is highlighted with a blue border.
- Project Details:** A list of project names: "Interior Design", "Stress Testing", and "Materials Experiments".

At the bottom of the interface, there are three buttons: "Cost Center Forecast", "Audit Trails", and "Track Execution".

Web Cost Center Forecast

Product And Portfolio Manager x +

localhost:4200/costCenterForecast

DRIVEN-4 Home JohnAnderson@DRIVEN-4.com Log Out

Cost Center Forecast

Add New Project

x Interior Design Add New Department

x Materials Lab Add Role

x Technician \$100

164	164	182	197	187	190	197	195	166	169	193	161	Expense
168	176	170	175	172	171	178	174	180	160	165	190	Capital

x Stress Testing Add New Department

x Materials Lab Add Role

x Engineer \$200

165	160	197	188	180	189	187	184	160	166	167	176	Expense
180	198	200	200	172	182	192	165	160	160	160	160	Capital

x Technician \$110

187	199	190	197	167	176	178	165	176	165	166	176	Expense
168	176	170	175	172	171	178	174	160	160	165	190	Capital

x Materials Experiments Add New Department

x Materials Lab Add Role

x Engineer \$200

164	164	182	197	187	160	165	161	162	163	187	179	Expense
160	165	178	189	177	167	165	160	160	160	178	161	Capital

x Project Contractor \$145

178	167	165	198	200	200	200	200	198	178	167	187	Expense
198	200	167	165	178	192	191	190	178	189	187	166	Capital

Submit Cancel

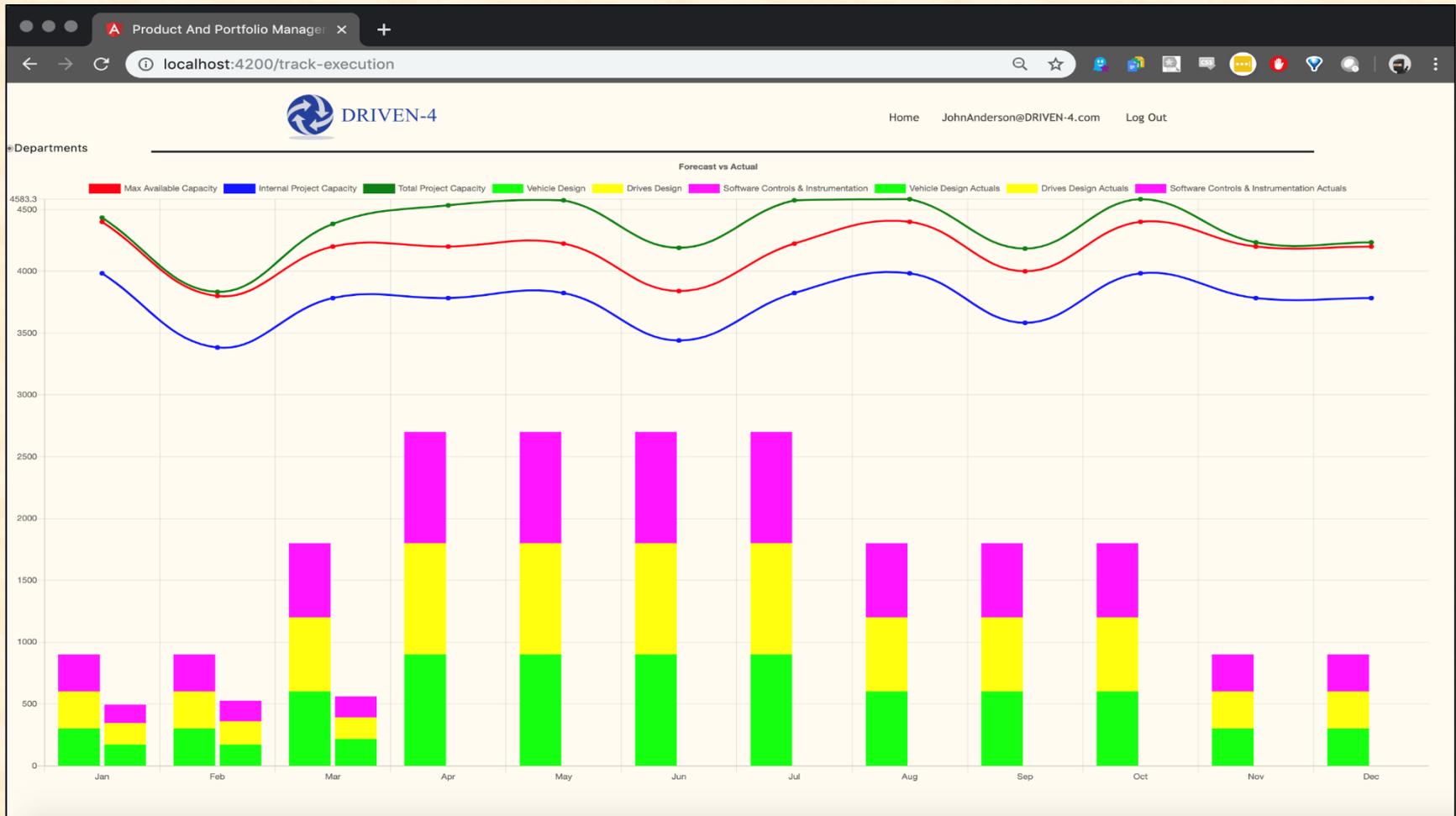
Web Audit Trail

The screenshot displays a web application interface for 'DRIVEN-4'. The browser address bar shows 'localhost:4200/viewUpdates'. The page header includes the DRIVEN-4 logo and navigation links: 'Home', 'JohnAnderson@DRIVEN-4.com', and 'Log Out'. A blue navigation bar contains 'Portfolio: 2019 Active Portfolio' and 'Current for Budget Date: 2019'. Below this is a table of audit trail entries:

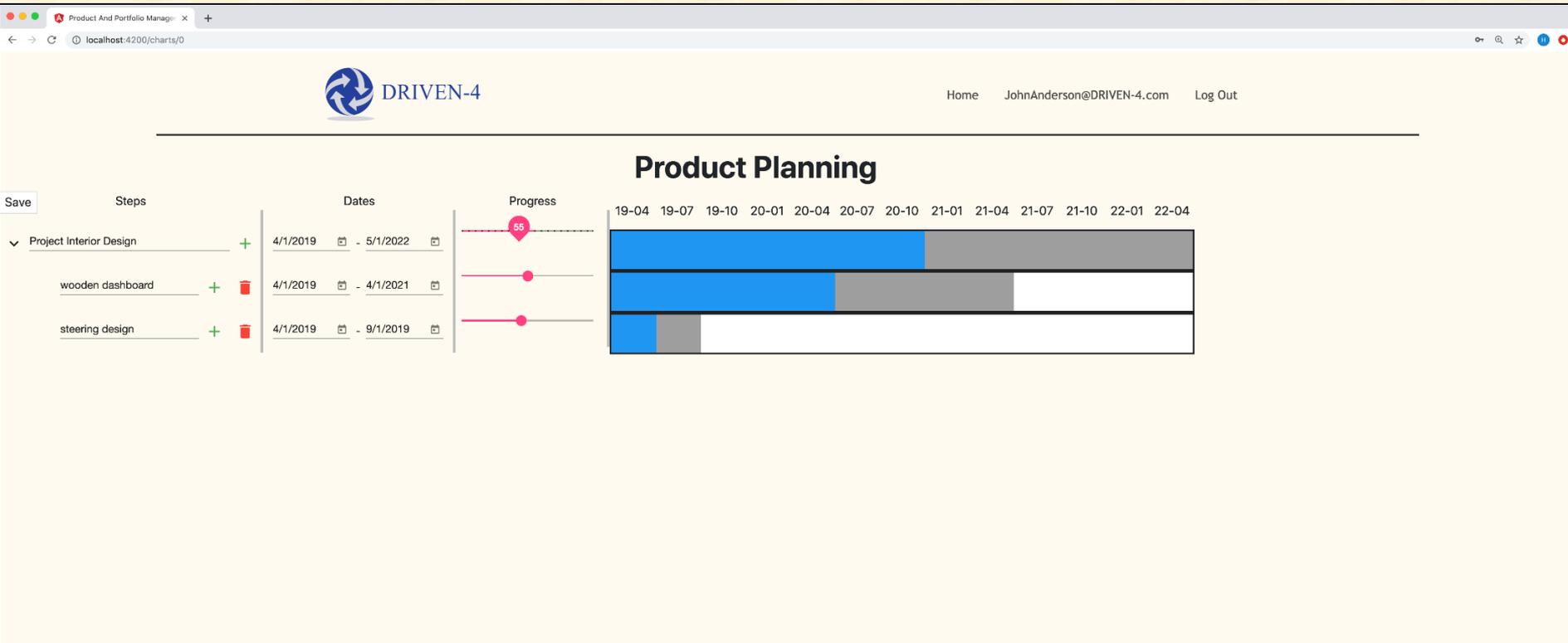
2019-03-31 04:43:48 JohnAnderson@DRIVEN-4.com	
Project: Materials Experiments Department: Materials Lab Role: Engineer	changed January Expense from 164 hours to 190 hours
Project: Materials Experiments Department: Materials Lab Role: Project Contractor	changed July Capital from 191 hours to 188 hours
Project: Stress Testing Department: Materials Lab Role: Technician	changed January Expense from 187 hours to 180 hours
Project: Interior Design Department: Materials Lab Role: Technician	changed January Expense from 164 hours to 178 hours



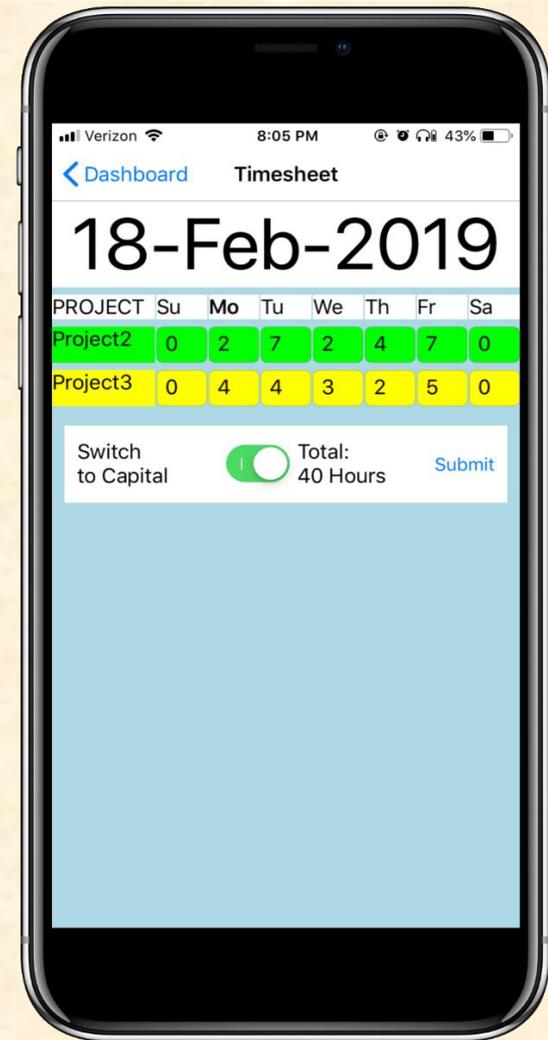
Web Track Execution Graph



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?

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