MICHIGAN STATE UNIVERSITY

Alpha Presentation

Product Development Portfolio and Planning

The Capstone Experience

Team DRIVEN-4

Dan Tinsman
Kyle Forbes
Kevin Kye
Athena Zhang
Hassan Tarar

Department of Computer Science and Engineering
Michigan State University

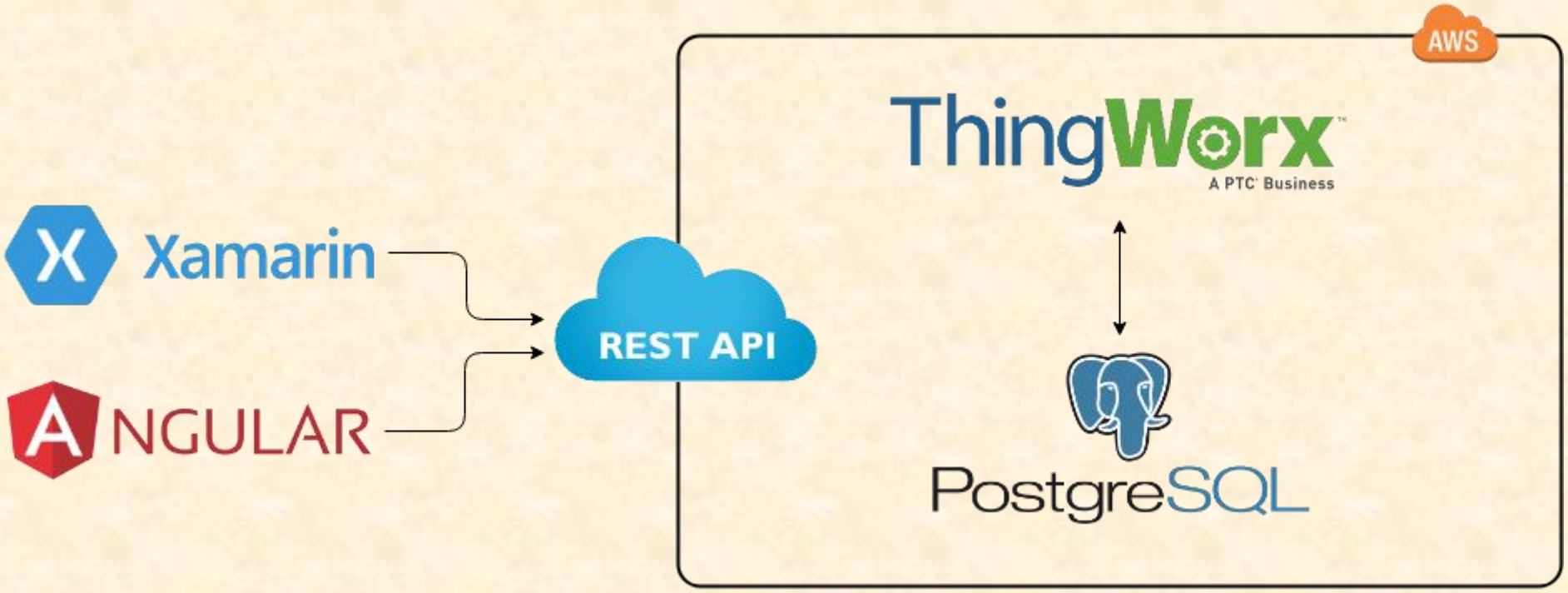
Spring 2019

From Students…
…to Professionals

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

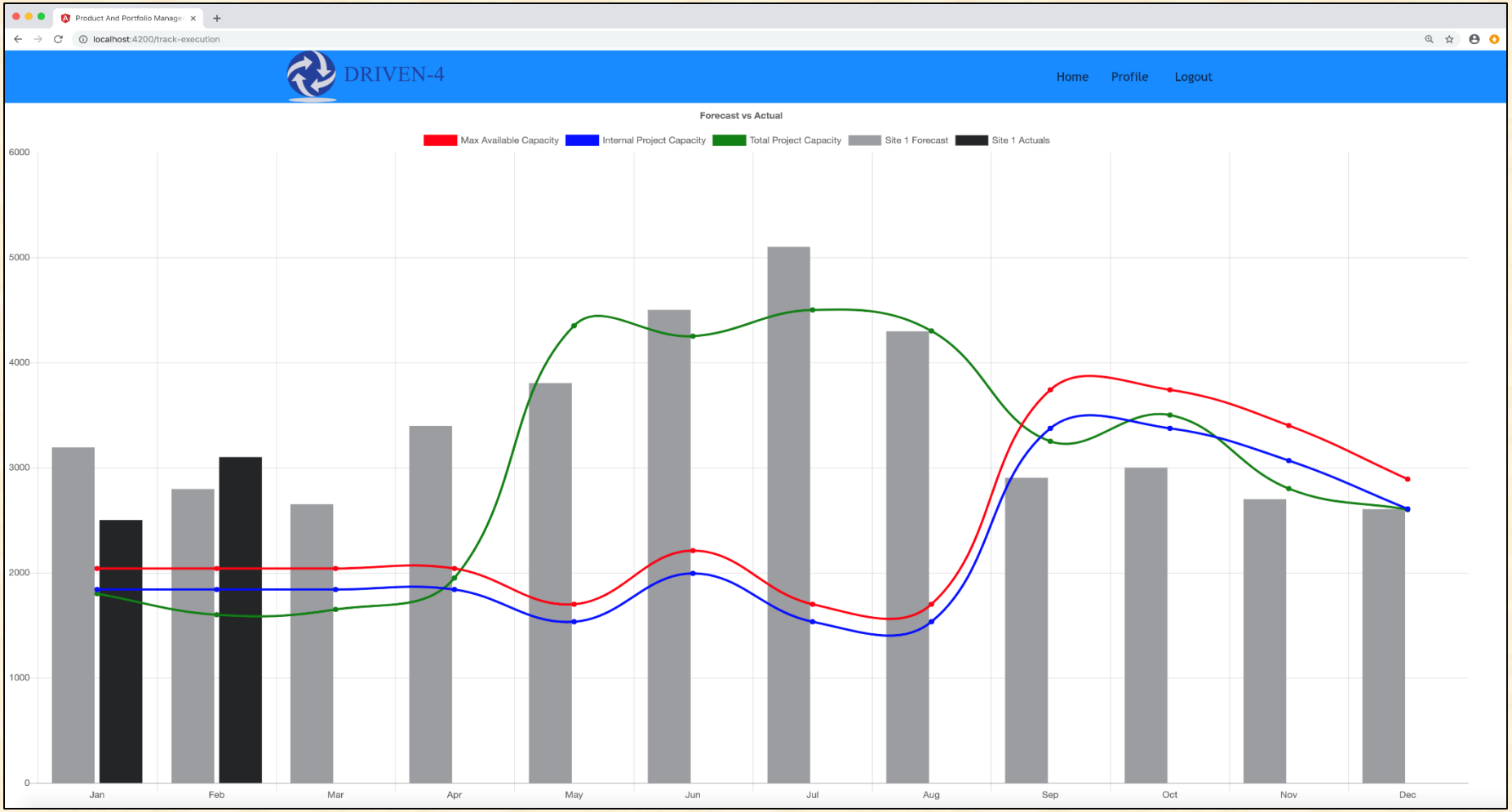


Cost Center Head Count

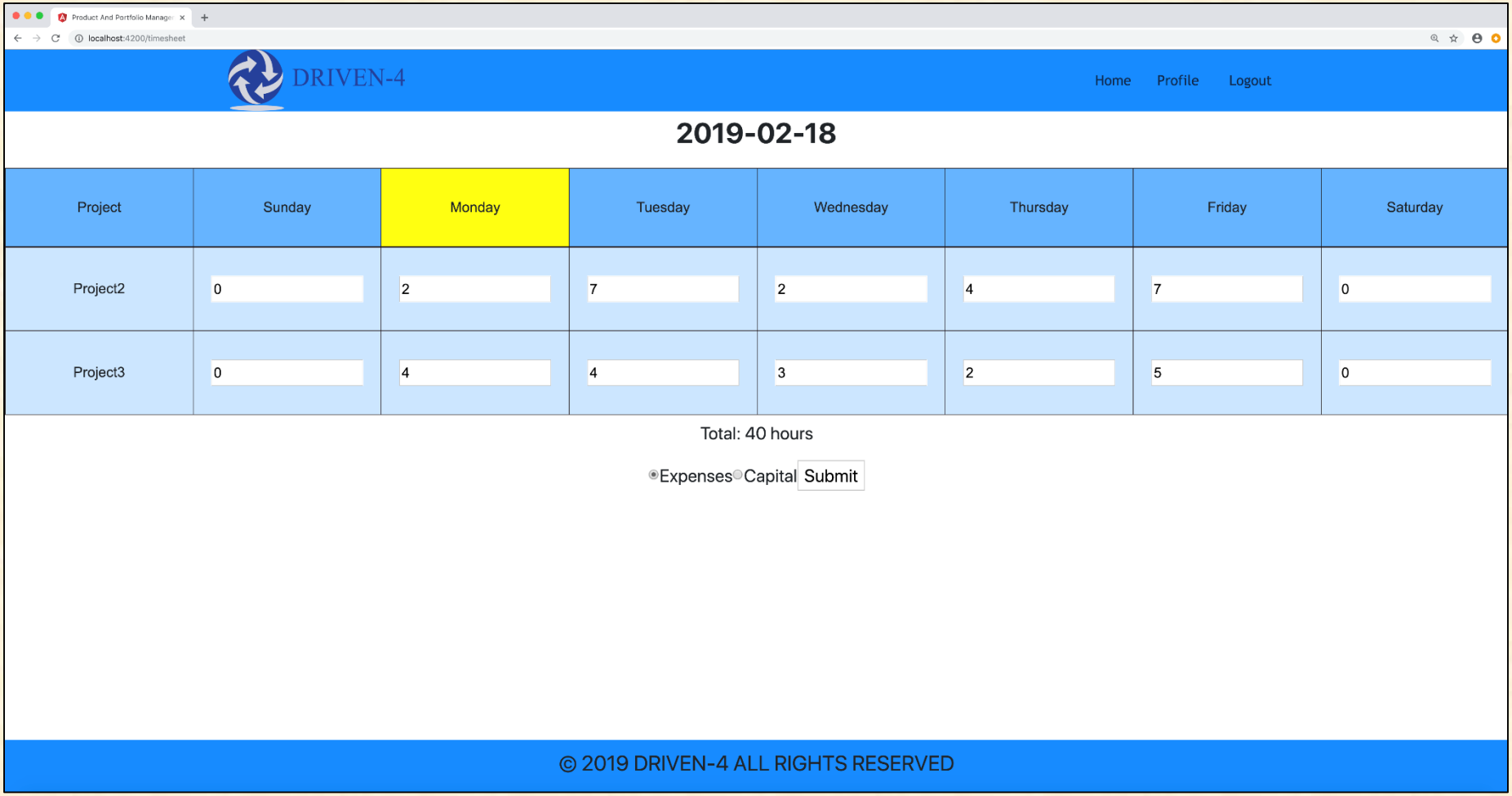
Cost Center: Design (#10501)				Current for Budget Year 2019											
Department	Role	Burn Rate HR	Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Vehicle Design	Engineer	150	Budget	2	2	2	2	2	2	2	2	4	4	3	3	30
			Actual													
	Designer	125	Budget	2	2	2	2	2	2	3	3	4	4	4	2	32
			Actual													
	Technician	100	Budget	2	2	2	2	1	3	2	2	3	3	3	3	28
			Actual													
Drives Design	Engineer	150	Budget	2	2	2	2	2	1	1	1	4	3	4	3	27
			Actual													
	Designer	125	Budget	2	2	2	2	2	3	1	1	3	4	3	4	29
			Actual													
	Technician	100	Budget	2	2	2	2	1	2	1	1	4	4	3	2	26
			Actual													

© 2019 DRIVEN-4 ALL RIGHTS RESERVED

Web Application Track Execution Graph

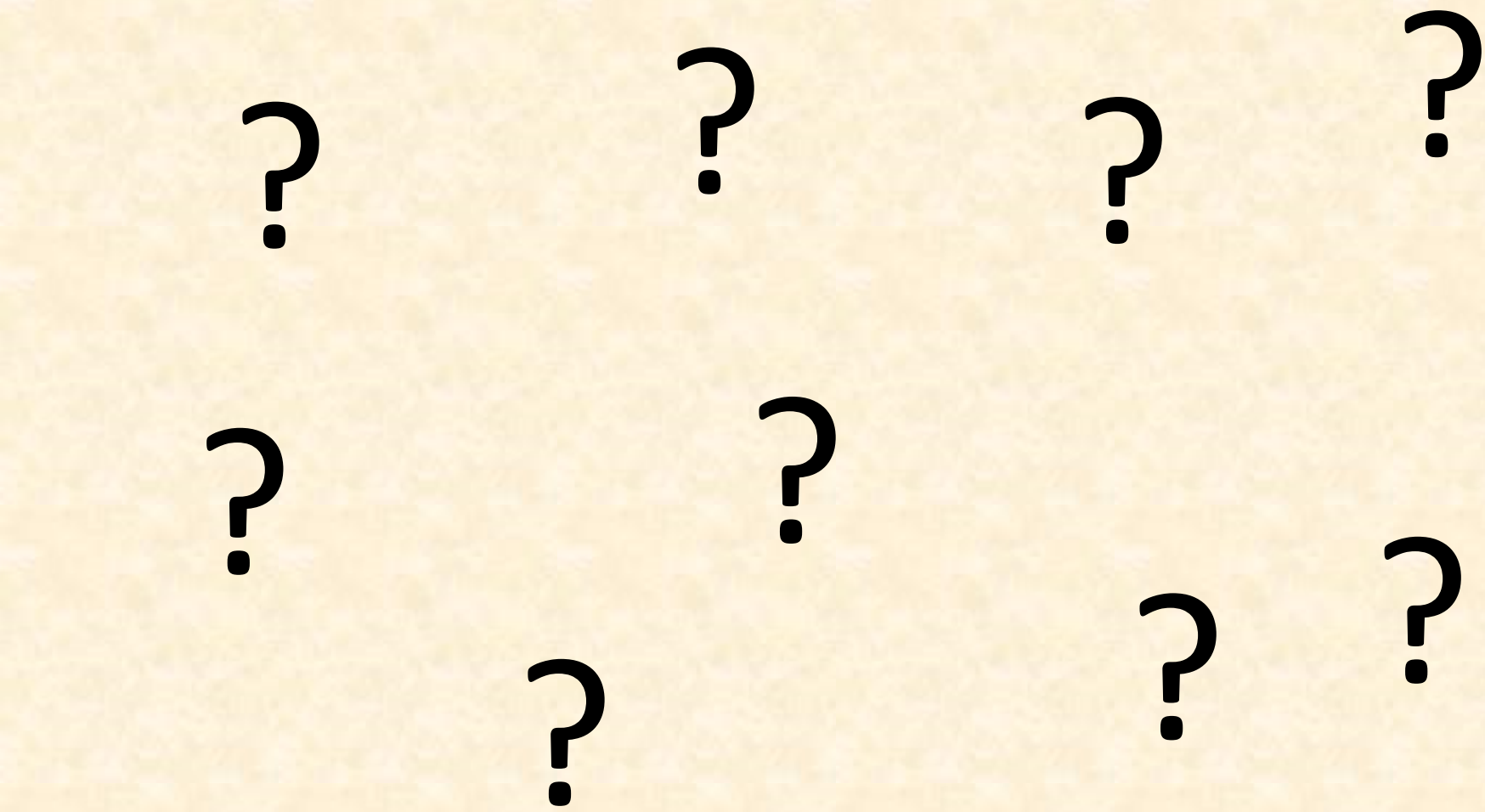


Web Application Timesheet



Mobile Track Execution And Timesheet

What's left to do?

- Implement product planning component.
- Implement scenario planning module in portfolio planning component.
- Add view updates module to automatically show any changes made to forecast by managers.
- Interface that provides a method for the project manager and the cost center manager to agree on forecast.
- Creating and managing user roles.

Questions?