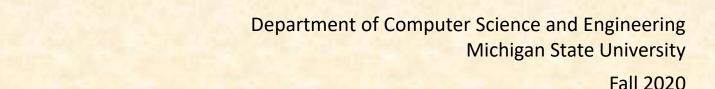
MICHIGAN STATE UNIVERSITY

Project Plan PlanIt Capacity Planning Tool

The Capstone Experience

Team Atomic Object

Shengtong Jin
Alex McLaughlin
Simran Dias
Alec Gillis
Zach Skrobot





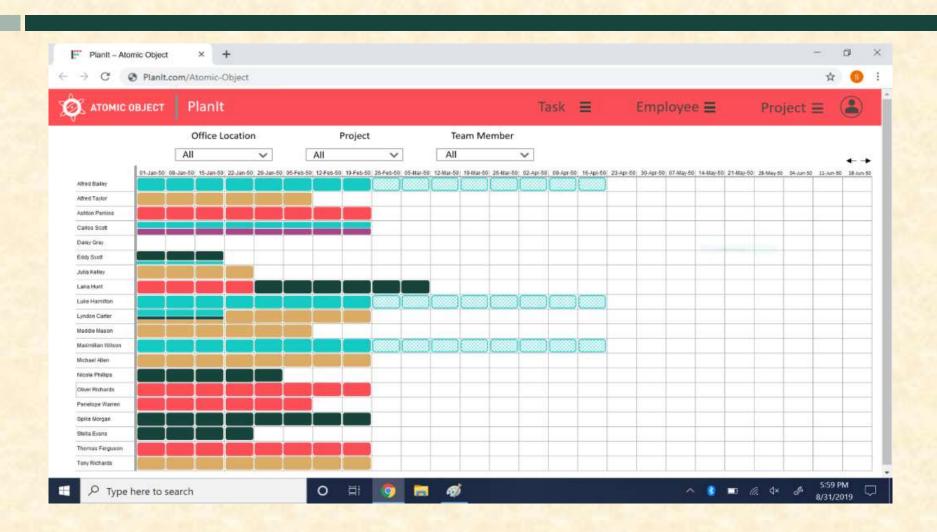
Functional Specifications

- Allows you to manage people, projects, and resources in your organization.
- Has built-in integrations with popular tools like JIRA, GitHub, and Slack to allow seamless operability for your organization.
- Improves upon the current app by making CRUD operations more convenient and intuitive.

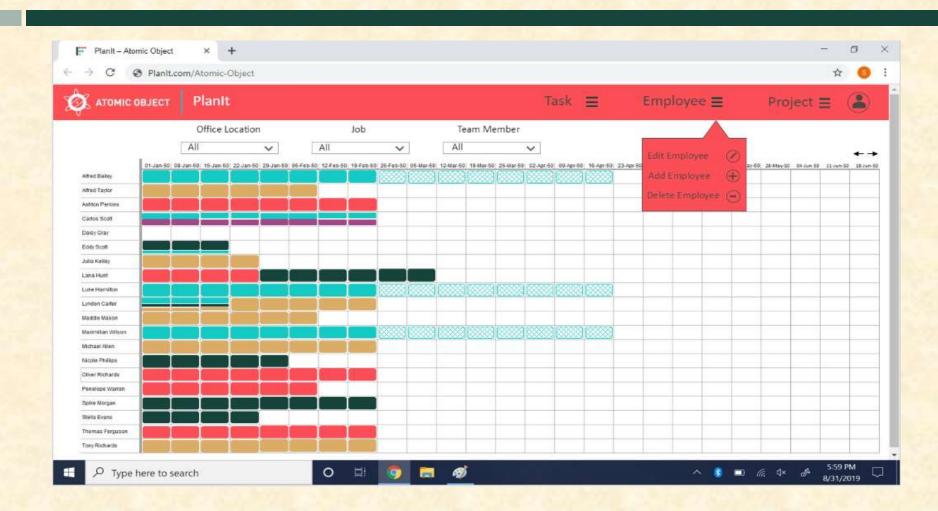
Design Specifications

- A flexible JavaScript single-page application
- Has a timeline view to visualize how work is allocated.
- Assign and edit employee, project, and team allocation through pop-up modals
- Can be used from desktop or mobile device

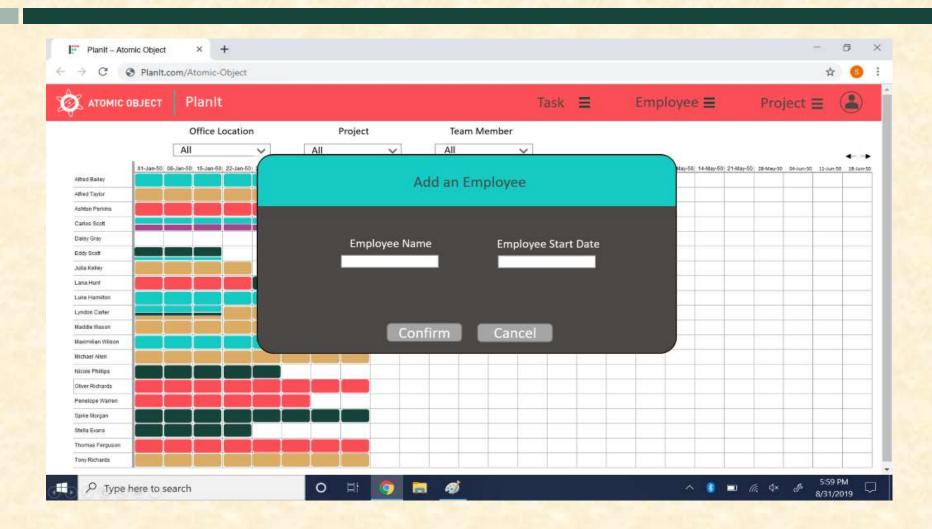
Screen Mockup: Web Interface



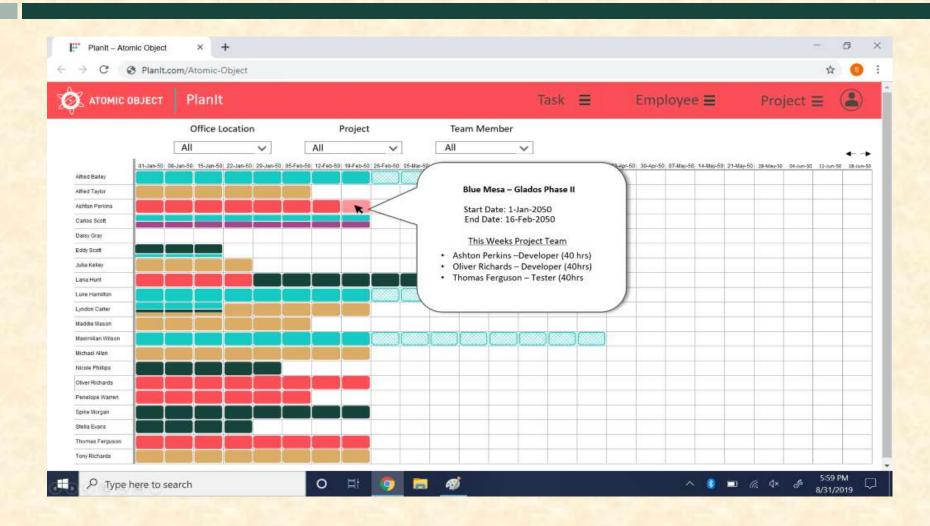
Screen Mockup: Menu Bar Drop Down



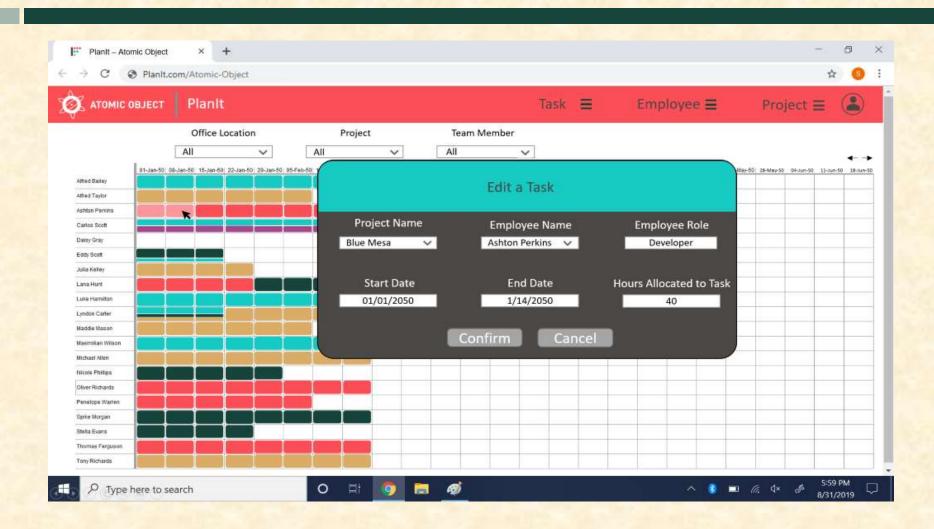
Screen Mockup: Modal Box



Screen Mockup: Hovering Over a Task



Screen Mockup: Click, Drag, and Edit





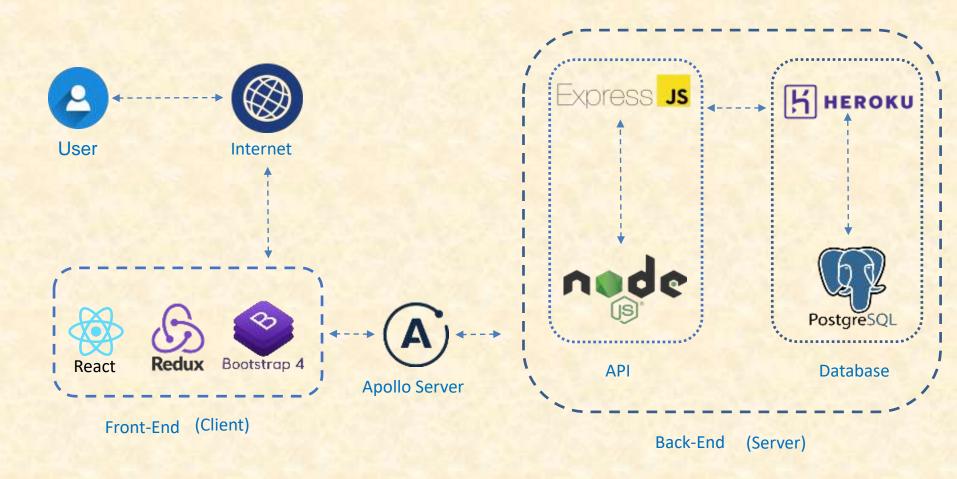
Screen Mockup: iOS Application



Technical Specifications

- HTML / CSS / ReactJS
- NodeJS
- ExpressJS
- GraphQI API
- Apollo Server
- PostgreSQL deployed on Heroku

System Architecture





System Components

- Hardware Platforms
 - No specific hardware required
- Software Platforms / Technologies
 - Heroku
 - React
 - Express
 - GraphQL
 - Apollo Server

Risks

- Risk 1
 - Integrating third-party applications
 - Research key apps early-on and write our code to accommodate their integration.
- Risk 2
 - Building a single-page web application
 - Keep code modular and consider the time complexity
- Risk 3
 - ReactJS Elements are Immutable
 - When we write our code, we will keep in mind immutability.



Questions?

