Project Plan
PlanIt Capacity Planning Tool

The Capstone Experience

Team Atomic Object

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From Students…
…to Professionals
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
- GraphQL API
- Apollo Server
- PostgreSQL deployed on Heroku
System Architecture

User

Internet

Front-End (Client)

React
Redux
Bootstrap 4

Apollo Server

Back-End (Server)

API

Express

node

HEROKU

PostgreSQL

Database
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?