Alpha Presentation
PlanIt Capacity Planning Tool

The Capstone Experience
Team Atomic Object

Alec Gillis
Zach Skrobot
Simi Dias
Alex McLaughlin
Shengtong Jin

Department of Computer Science and Engineering
Michigan State University
Fall 2020
Project Overview

• PlanIt is a capacity planning tool used to manage project teams and allocate resources.
• The timeline view allows you to quickly visualize how your workforce is allocated.
• Simple edits can be made by using the modals.
System Architecture

User → Internet → Apollo Server

Frontend (Client):
- React
- Redux
- Bootstrap 4

Backend (Server):
- Express.js
- Apollo Server
- PostgreSQL
- Heroku

API

Database
Timeline View
# Timeline Filters

![Timeline Filters](image-url)

<table>
<thead>
<tr>
<th>OFFICE</th>
<th>PROJECT</th>
<th>TEAM MEMBER</th>
<th>FROM</th>
<th>TO</th>
<th>Apply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grand Rapids</td>
<td>Project Planner - Acme</td>
<td>Jackie C</td>
<td>10/12/2020</td>
<td>01/18/2021</td>
<td></td>
</tr>
<tr>
<td>Select an office</td>
<td>Select</td>
<td>Peter H</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>John Doe</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gary Smith</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deborah Wallace</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mike Truck</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Modal Box: Add an Employee
Modal Box: Add a Project
What’s left to do?

• Slack Integration
• Filter timeline functionality
• Click and drag functionality
• Assignments data structure
• Multiple colors of tiles
• Multiple tiles per cell
• Finalize styling
Questions?