Mobile App for Project Management
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Project Objective
• To design a mobile app to display up to date project management data for ZIN project managers.

Features
• Secure login
• Two access levels
• Charts and graphs
• Easy to read displays of:
  • Funding Forecast
  • Project Status
  • Manufacturing Status
  • Timecard Data

Challenges
• Session security
• Token identification
• Email confirmation
• Data selection and retrieval
• Cross-platform support: iOS, Android
• Data security and integrity during implementation

Approach
• Create a mobile friendly web app
• Create hybrid apps for Android and iOS.
• Pull data from existing ZIN database
• Use database clone and private server during implementation

Planning Phase

<table>
<thead>
<tr>
<th>Planning Phase</th>
<th>Requirement ID</th>
<th>Requirement Title</th>
<th>Requirement Description</th>
<th>Verification/Validation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>User Login</td>
<td>Secure Login</td>
<td>To see the data from ZIN's database on our web app, a user must log in with their employee number and a given password.</td>
<td>A user entering the wrong login data will be unable to view any data.</td>
</tr>
<tr>
<td>2</td>
<td>Project Percentage by Project</td>
<td>Graphically show how much each project participant has contributed to a given project by percentage.</td>
<td>A chart will display percentages accurately and resize to fit commonly used screen sizes. The chart will be readable on mobile devices.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Project Percentage by Person</td>
<td>Graphically show how the percentage of a given person's time has been spent across the projects the person participates in.</td>
<td>A chart will display percentages accurately. The chart will resize to fit commonly used screen sizes. The chart will be readable on mobile devices.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Funding Forecast</td>
<td>Graphically show the total funding for each project, remaining funding and estimated number of weeks remaining based on the “average weekly burn” column.</td>
<td>A chart will display percentages accurately. The chart will resize to fit commonly used screen sizes. The chart will be readable on mobile devices.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Server</td>
<td>To host the webservice for our app.</td>
<td>The service connects the ZIN MSSQL database to our web application.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(stretch goal)</td>
<td>Manufacturing Status</td>
<td>Graphically show the production status of a part.</td>
<td>A chart will display percentages accurately. The chart will resize to fit commonly used screen sizes. The chart will be readable on mobile devices.</td>
</tr>
</tbody>
</table>