Alpha Presentation
Next Gen Smart Factory

The Capstone Experience

Team WK Kellogg Co

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Project Overview

• Existing critical software is reaching end-of-life
• Organizes factory logistics
  ▪ Allows administrators to create checklists for operators
  ▪ Allows operators to complete checks
  ▪ Stores all checklists and completed check data
  ▪ Allows administrators to visualize the data
System Architecture

Frontend / Interface
- HTML / CSS / JS

Operators
Supervisors
Admins

Backend
- Python
- Web Server
- SQL Database

Operators → Frontend / Interface → Backend
Supervisors → Frontend / Interface → Backend
Admins → Frontend / Interface → Backend
Check Creation Page

<table>
<thead>
<tr>
<th>Check Name</th>
<th>Check Description</th>
<th>Check Type</th>
<th>Input Type</th>
<th>Status</th>
<th>Reference Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>testQA</td>
<td>mock data for QA</td>
<td>QA</td>
<td>Text</td>
<td>In Progress</td>
<td>Wed, 14 Feb 2024 01:55:47 GMT</td>
</tr>
<tr>
<td>testAM</td>
<td>mock data for AM</td>
<td>AM</td>
<td>Text</td>
<td>In Progress</td>
<td>Wed, 14 Feb 2024 01:55:47 GMT</td>
</tr>
</tbody>
</table>
Check Execution Page
Reporting Page - QA/AM
Reporting Page – Success / Failure

[Image: A pie chart showing the success and failure rates with labeled categories for different dates and users.]

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What’s left to do?

• Connect executed checks to database
• Add more check data fields
• Allow for more input type customizability
• Allow for more visualization customizability
Questions?