Alpha Presentation
QA Audit Center

The Capstone Experience
Team United Airlines Quality Assurance

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Project Overview

• Auditors will be able to maintain optimal business operations by conducting audit reports and completing checklists on the application

• Application will make reports easily accessible

• Allow off-wing quality assurance auditors to be up to date on the Federal Aviation Association (FAA) regulations and policies
System Architecture

The back-end infrastructure for our application consists of both the Google Firebase platform and the MSU server.

Mobile application can fill in audit logs, generate a PDF locally and connect to the Google Firebase Cloud.

The Capstone Experience
Team United Airlines Quality Assurance Alpha Presentation
Main Dashboard with FAA Updates
In-Process Audit Sheet

<table>
<thead>
<tr>
<th>Employee Name/ID</th>
<th>Part Number</th>
<th>Serial Number</th>
<th>Nomenclature</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Doe 10 years</td>
<td>V1234-A5</td>
<td>V12345</td>
<td>V2500</td>
</tr>
</tbody>
</table>

Task: Install T1 and T2 onto engine

Technical Specifications: Em V2500 - A1/-A5

Tooling: Torque Wrench 3123445 Due 6/12

Shelf Life: Hylomar LM123 Exp 12/12

Traceability: Packing

Required Training: V2500 IAPLB

Date Qualified: 9/24/06
Listed In-Process Sheets

QA 4-1 R34 5OCT2021
Jeff Johnson 10 years
V1234-A5
V3524
V2500
Install T1 and T2 onto engine
EM V2500-A1/-A5
Torque Wrench 3123445 Due 6/12
Hylomar LM123 Exp 12/12
Packing
V2500 JAPLB
9/24/06
Tabular Data for an Audit

### RECORDS of MAINTENANCE (ROM)

<table>
<thead>
<tr>
<th>Doc Type</th>
<th>Document #</th>
<th>Part/PN/SN</th>
<th>Date</th>
<th>Specification incl. revision level &amp; date</th>
<th>Tech. Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAA Form 1</td>
<td>LHT2351</td>
<td>V2500 V23566-A4</td>
<td>7/6/21</td>
<td>EM V2500 5/1/21</td>
<td>Jeff Johnson 82123</td>
</tr>
</tbody>
</table>

### TRACEABILITY

<table>
<thead>
<tr>
<th>Product</th>
<th>Part Number</th>
<th>Batch/Lot #</th>
<th>P.O. Number</th>
<th>Supplier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washer</td>
<td>A374925</td>
<td>332536497</td>
<td>N/A</td>
<td>Pattonair</td>
</tr>
<tr>
<td>Packing</td>
<td>A177263</td>
<td>461993746</td>
<td>N/A</td>
<td>IAE</td>
</tr>
</tbody>
</table>
What’s left to do?

• Add checklists to the audit log document
• Attach photos to the audit log document
• Add data tables to the audit log document
• Ability for the application to redirect to the MSU webserver to update the regulation data
Questions?