

MICHIGAN STATE
UNIVERSITY

Alpha Presentation

Next Gen Smart Factory

The Capstone Experience

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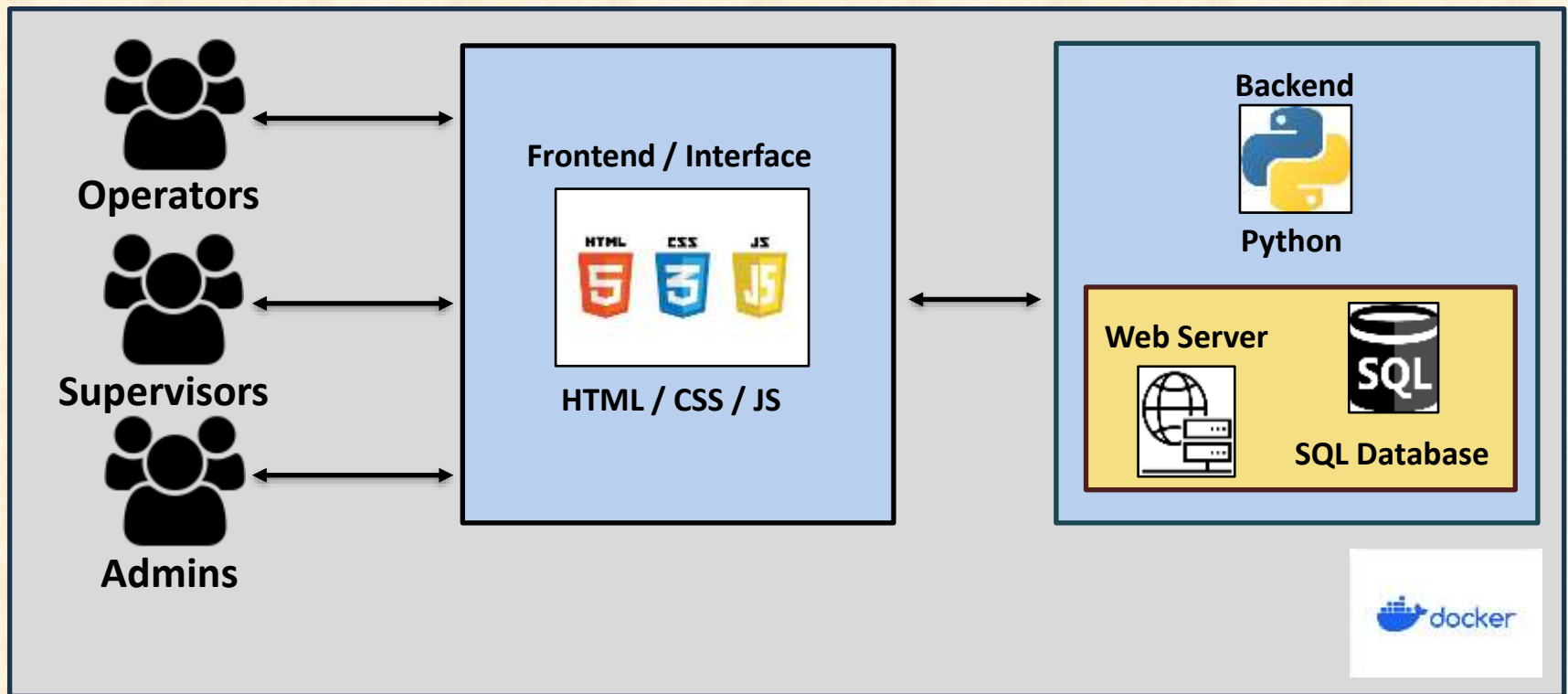
From Students...
...to Professionals

Project Overview

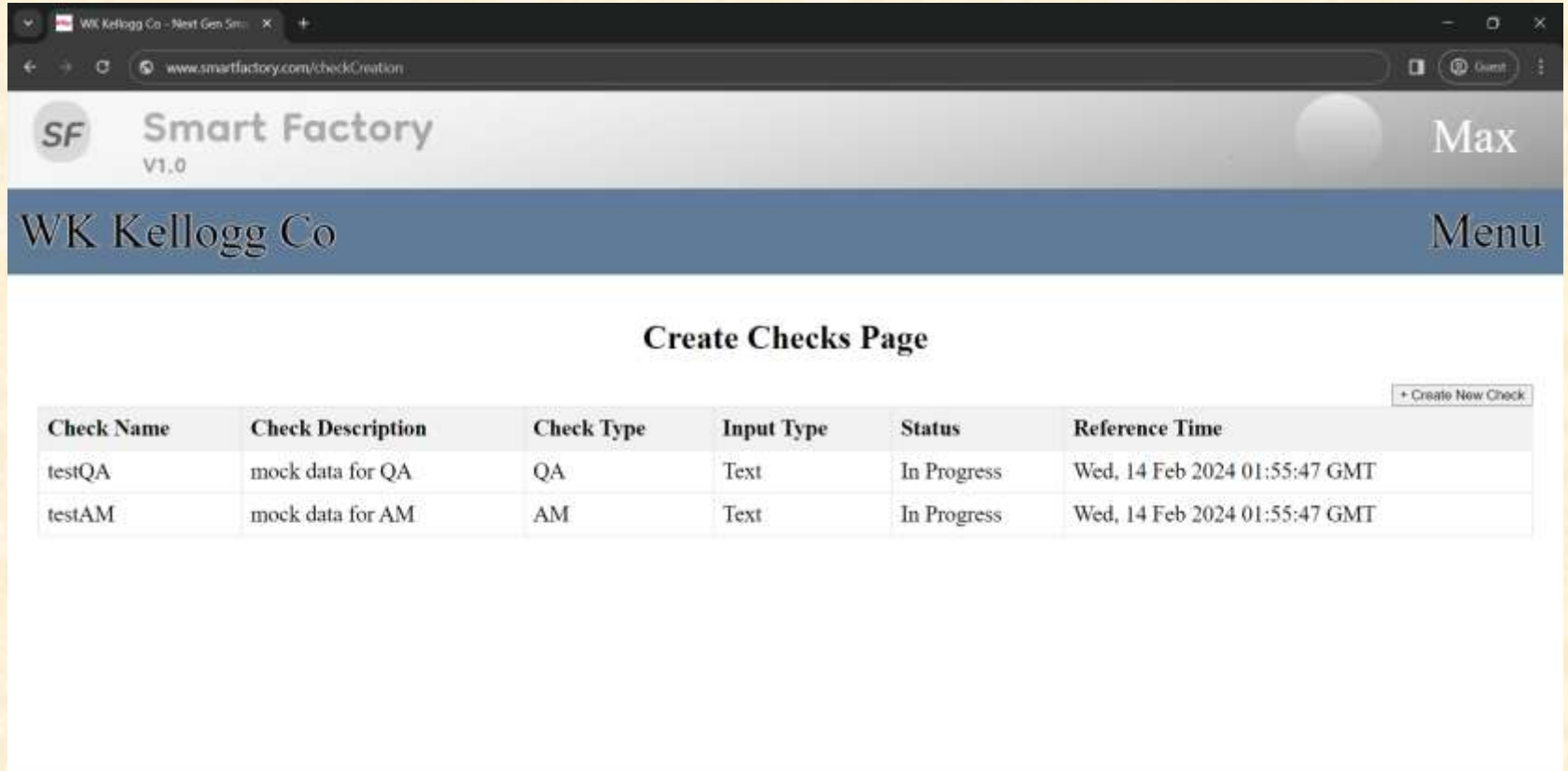
- Existing critical software is reaching end-of-life
- Organizes factory logistics
 - Allows administrators to create checklists for operators
 - Allows operators to complete checks
 - Stores all checklists and completed check data
 - Allows administrators to visualize the data



System Architecture



Check Creation Page



The screenshot displays a web browser window with the URL `www.smartfactory.com/checkCreation`. The page header includes the 'Smart Factory V1.0' logo and the company name 'WK Kellogg Co'. A navigation bar at the top right contains 'Max' and 'Menu' buttons. The main content area is titled 'Create Checks Page' and features a '+ Create New Check' button. Below this is a table with the following data:

Check Name	Check Description	Check Type	Input Type	Status	Reference Time
testQA	mock data for QA	QA	Text	In Progress	Wed, 14 Feb 2024 01:55:47 GMT
testAM	mock data for AM	AM	Text	In Progress	Wed, 14 Feb 2024 01:55:47 GMT



Check Execution Page

The screenshot displays the 'Smart Factory V1.0' interface for 'WK Kellogg Co'. The page title is 'Check Execution Page'. The user is logged in as 'Max'. The status is 'Production', and there is a '+ Add Manual Check' button. The main content area is divided into a search and filter section on the left and a summary dashboard on the right.

Search and Filter Section:

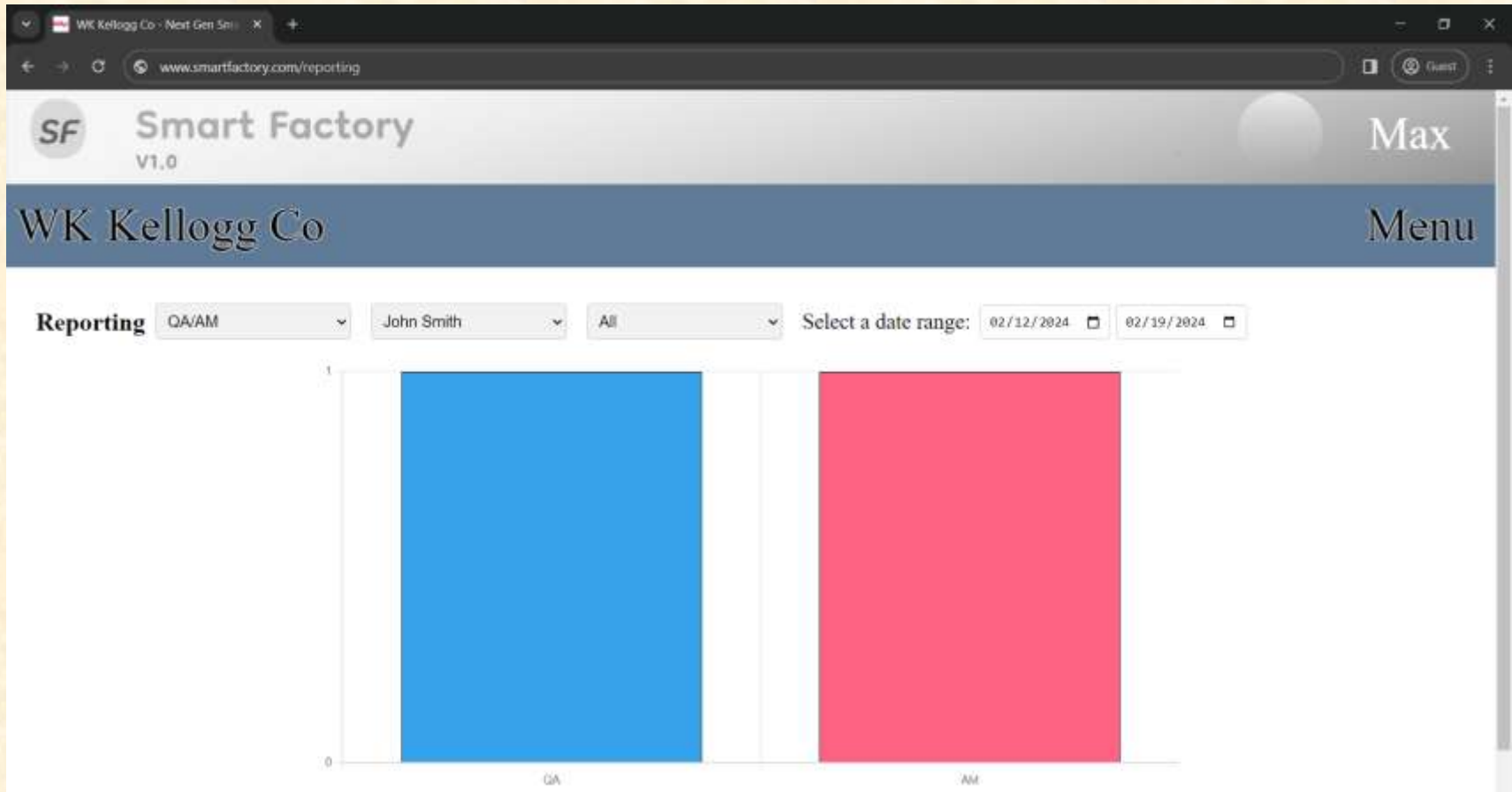
- Search for a check:
- Filter tabs: All (2), Due (0), Failed (0), Upcoming (0), Manual (0), Closed (0), Retest (0)
- Check 1: **testQA** mock data for QA Type: QA
Due: Wed, 14 Feb 2024 01:55:47 GMT [Execute Check]
- Check 2: **testAM** mock data for AM Type: AM
Due: Wed, 14 Feb 2024 01:55:47 GMT [Execute Check]

Summary Dashboard:

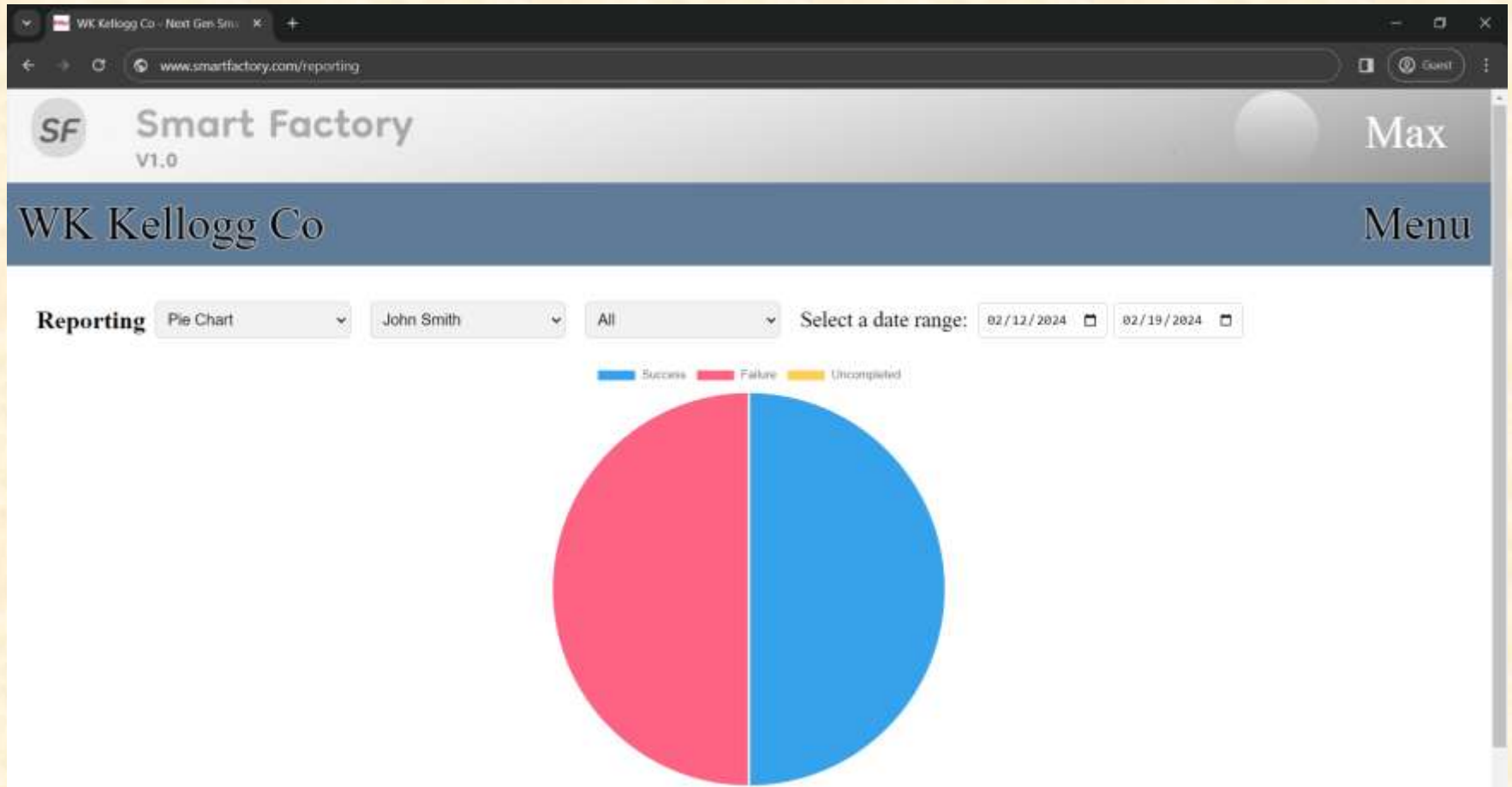
- Open Checks:** 4
Legend: 1 Controlled, 0 Standard
- Closed Checks:** 0
Legend: 1 On Time, 0 Completed Late
- Compliance:** 100%
Legend: 1 Passed, 0 Passed Retest, 0 Failed



Reporting Page - QA/AM



Reporting Page – Success / Failure



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?

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