MICHIGAN STATE
U N I V E R S I T Y

Project Plan
AI Project Matcher

The Capstone Experience

Team Dow

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From Students…
…to Professionals

Functional Specifications

- Match employees to projects

- Match projects with employees

- Match recommendations based on:
    - Employee's current skills
    - Project's desired skills
    - Availability
    - Employee's desired roles

Design Specifications

Both Employee and Project Manager accounts will have:

- Profile View
  - Create/edit account

- Matching View
  - Search for projects/employees

- Matches View
  - Review matches and contact

Screen Mockup: Employee Profile
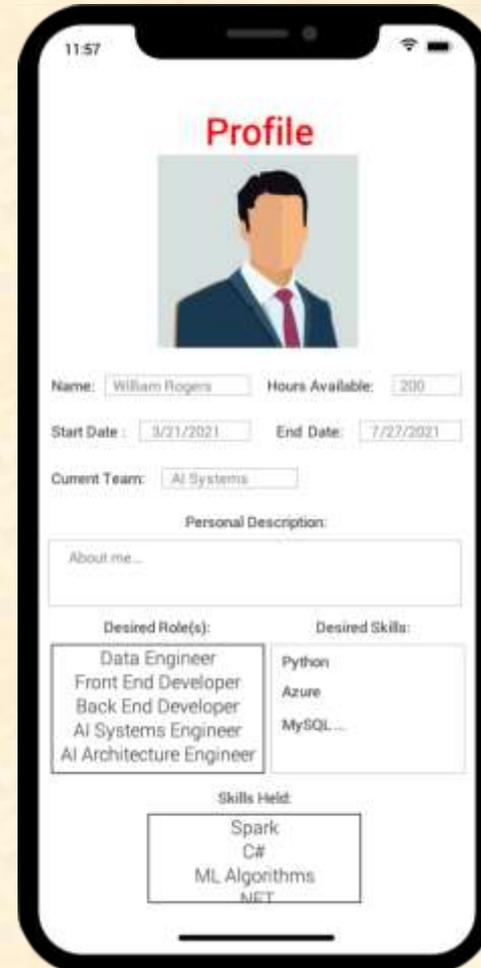
Screen Mockup: Project Profile
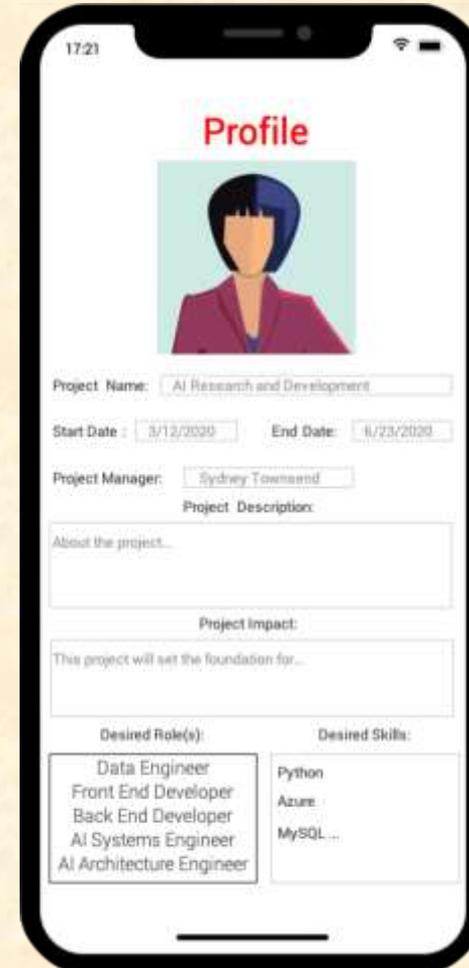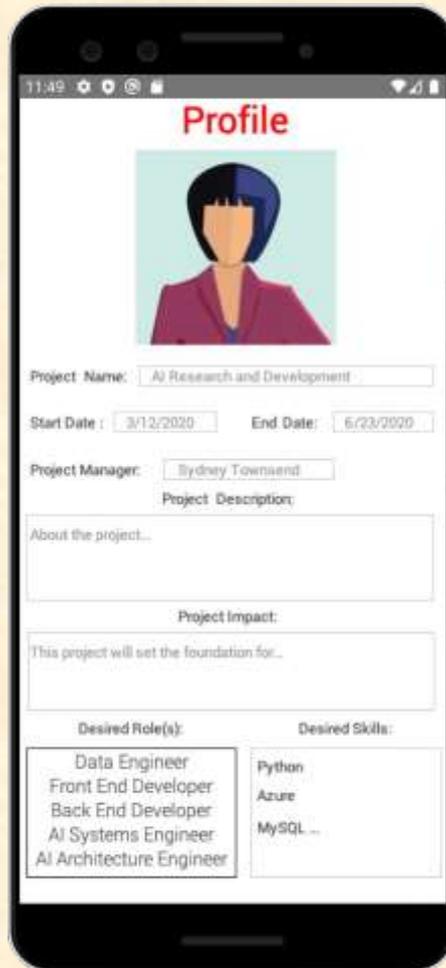
Screen Mockup: Project Matching
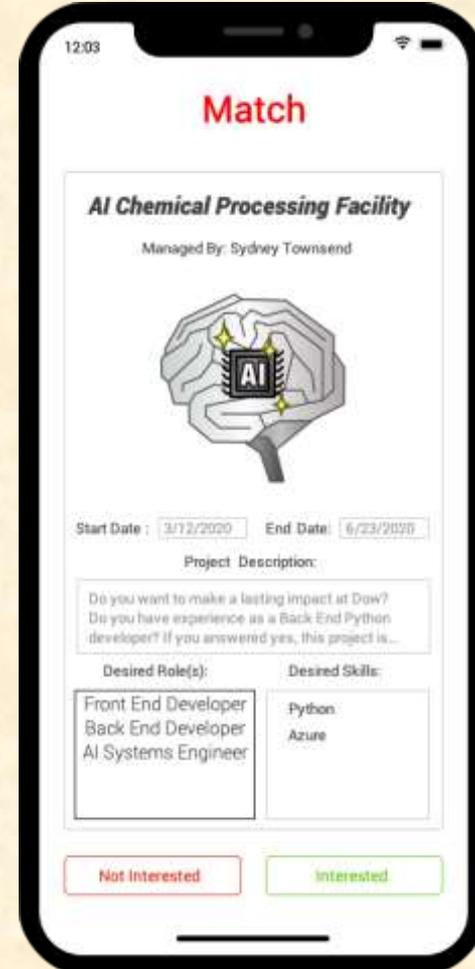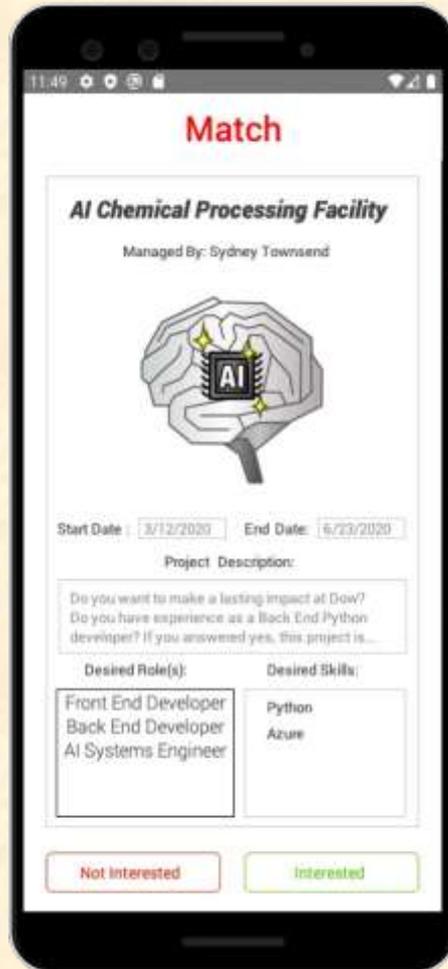
Screen Mockup: Employee Matching
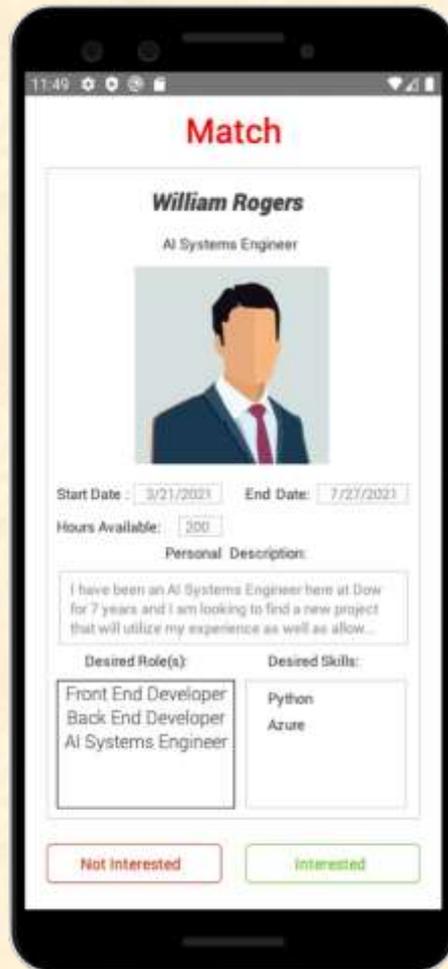
Screen Mockup: Employee Matches
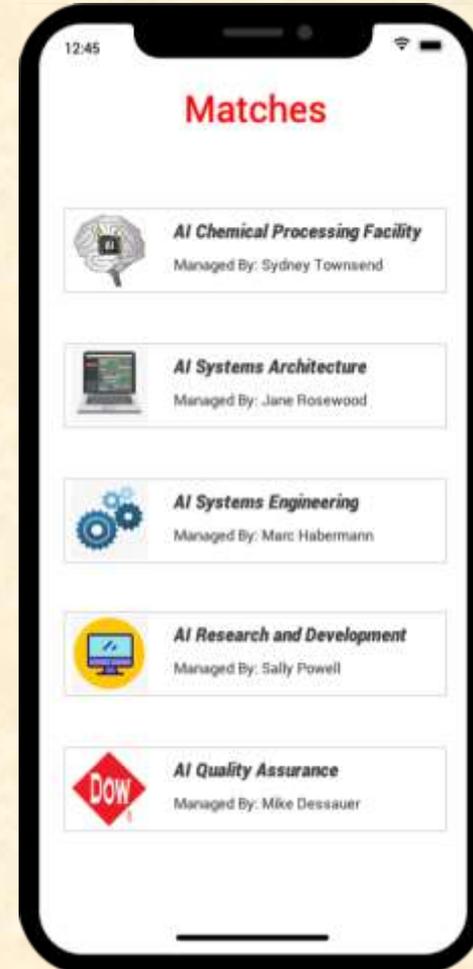
Screen Mockup: Project Matches
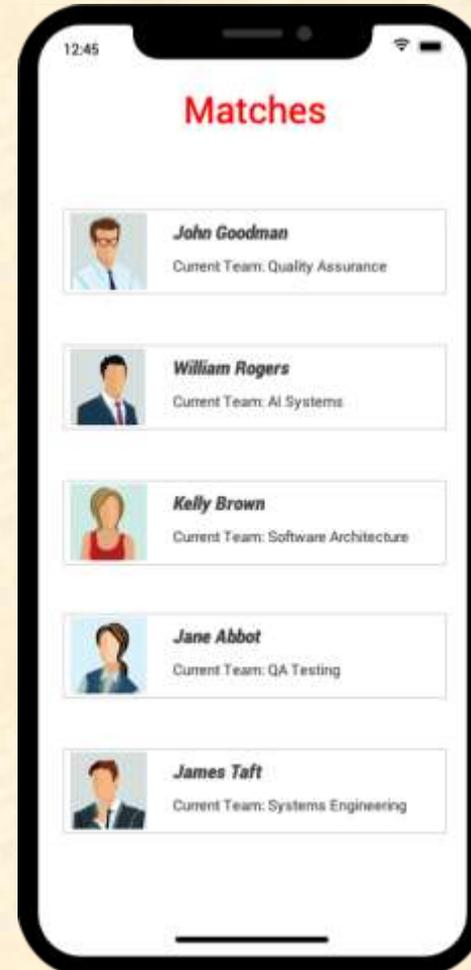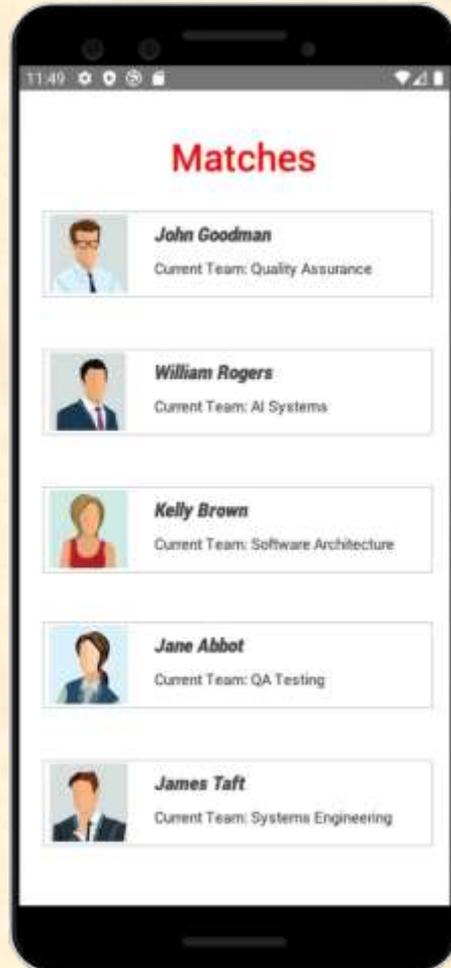
Technical Specifications

- Mobile (Android & iOS)

- Front end – Node.JS, React Native

- Back end – MySQL, Azure

- Recommendation Algorithm
  - Tags and Weights

System Architecture
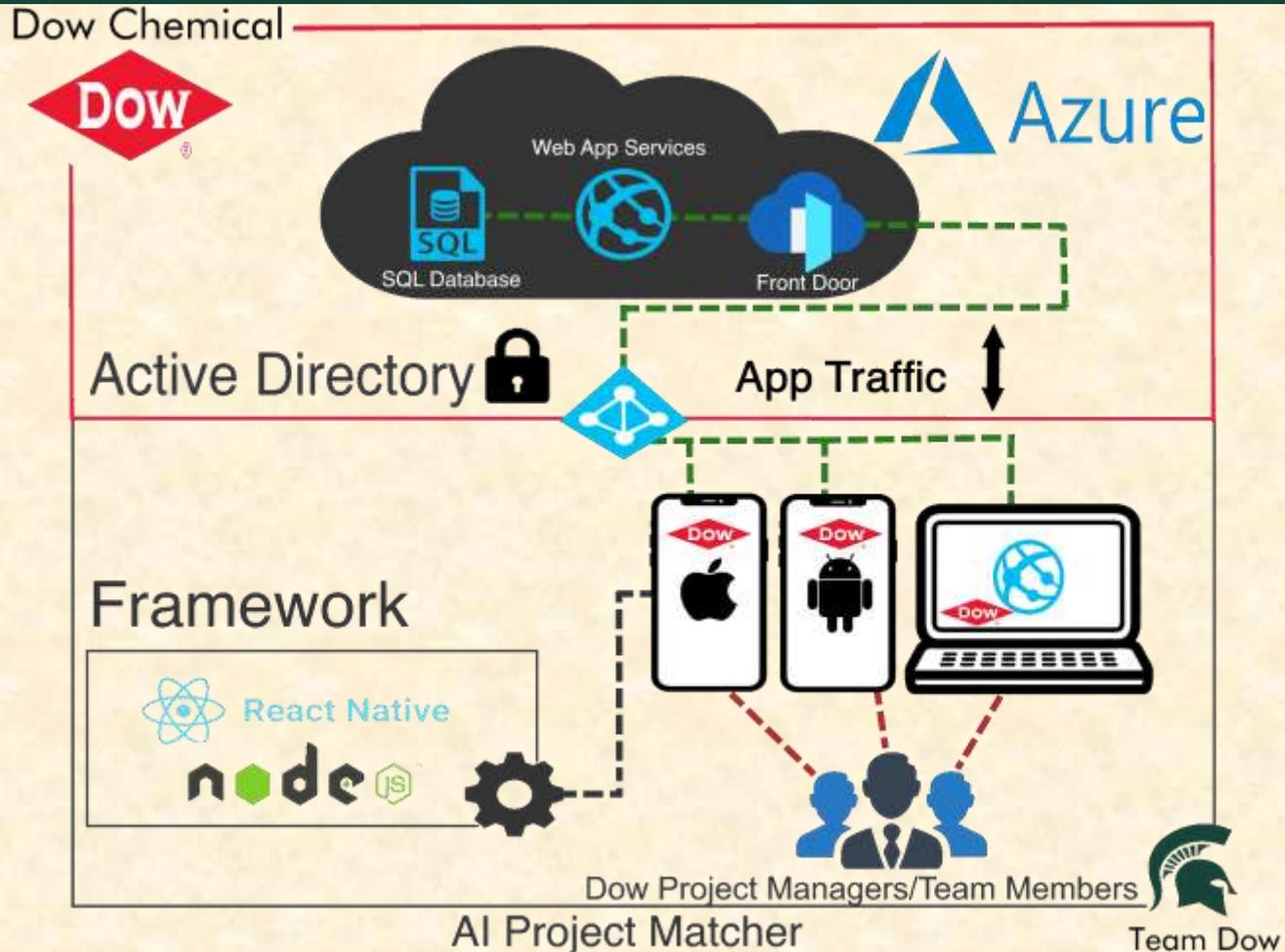
# System Components

- Hardware Platforms
  - Windows OS
  - Mac OS
- Software Platforms / Technologies
  - React Native
  - NodeJS
  - MySQL

Risks

- Unexpected Behavior
  - Recommendation engine will not behave in a predictable way
  - Use a weighting system to keep track of behavior
- Wide Variety of Projects
  - Creating an AI that will be able to suggest user submitted projects
  - Use a tag system to keep projects simple and add more as development progresses
- Connect to Azure SQL Database
  - Cannot gain access to Dow's Azure environment
  - Setting up and testing our own environment as soon as possible

Questions?