

MICHIGAN STATE

UNIVERSITY

Alpha Presentation

Electric Vehicle Charging Station App

The Capstone Experience

Team Ford

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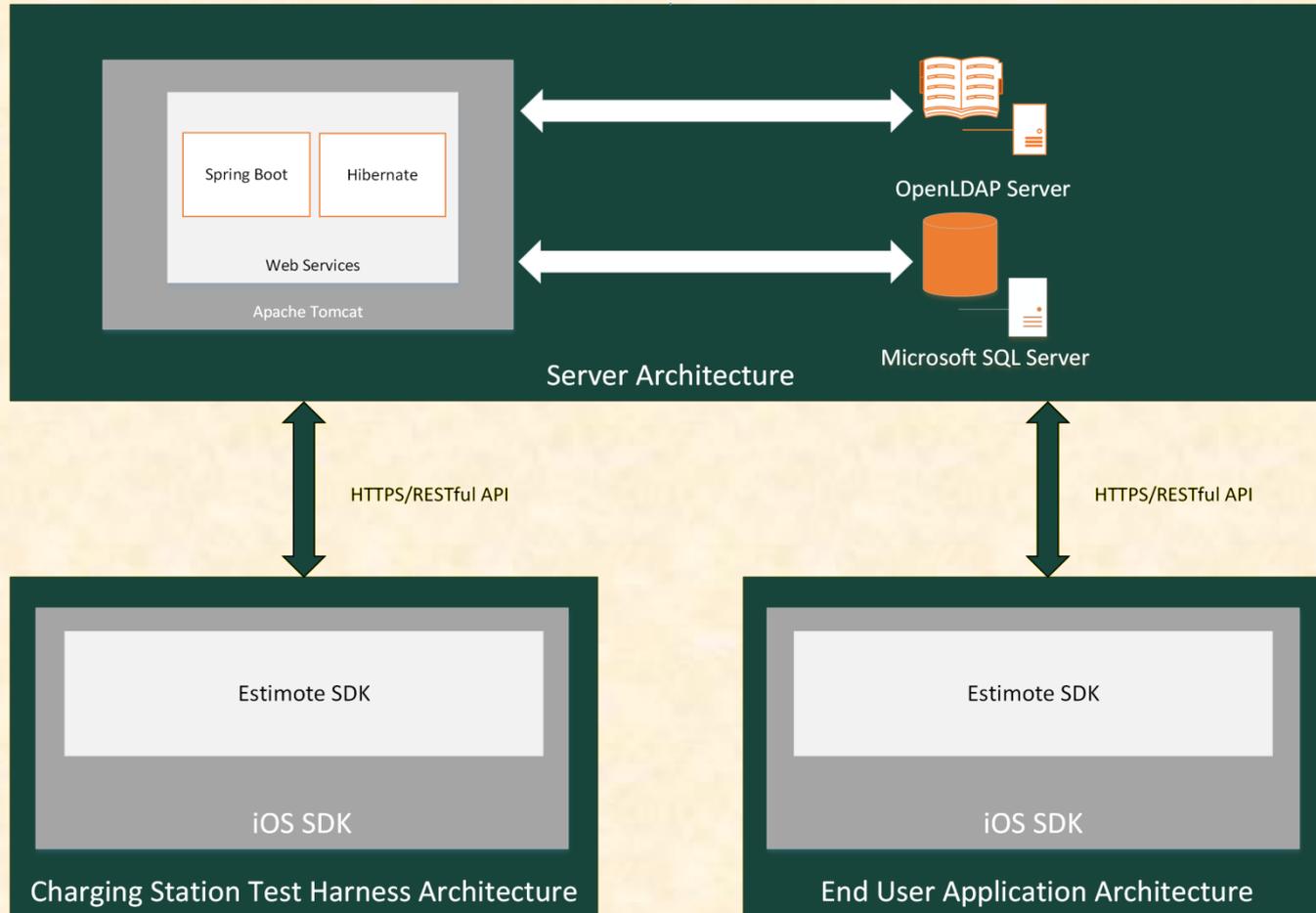
*From Students...
...to Professionals*

Project Overview

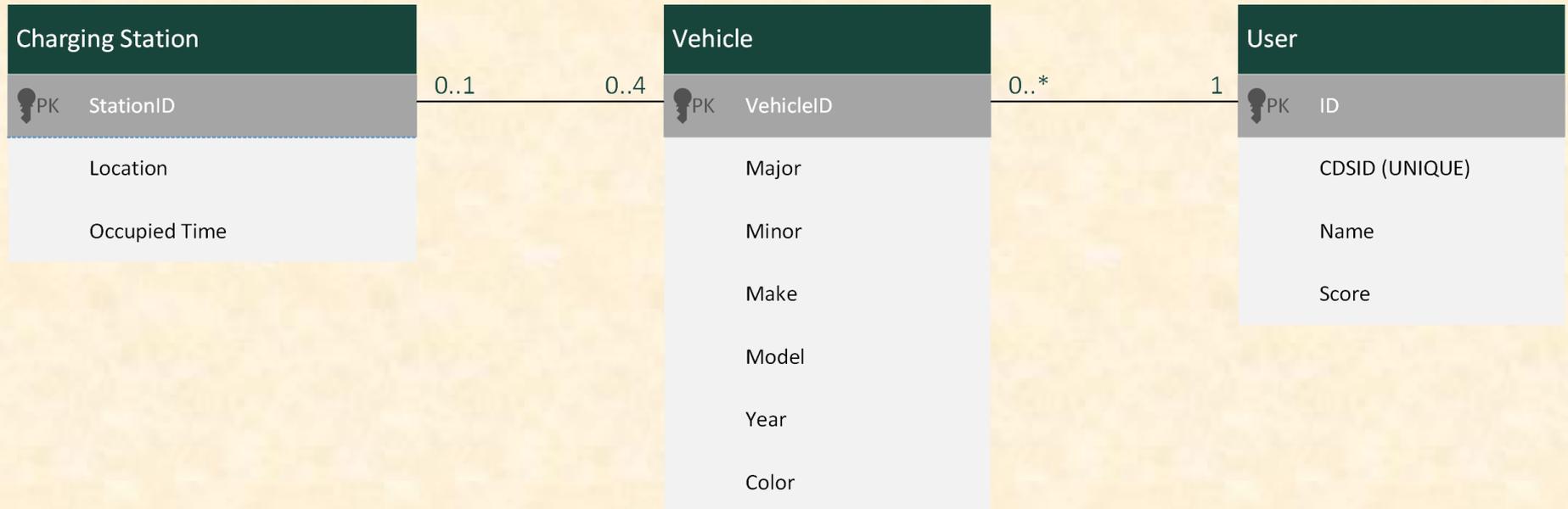
- Manage and monitor electric vehicle charging stations across Ford's Dearborn campus
- Provide users with real time information on current status of vehicle charging stations
- Encourage electric vehicle owners to efficiently use parking spaces



System Architecture



Database Schema



Alpha Demo Overview

End User Application

- Registration
- Login

Test Harness Application

- Activate charging station
- Deactivate charging station



What's left to do?

- Google Maps functionality
- Four hour rule (push notifications and leaderboard)
- Subscription notifications
- API authentication tokens
- Determining correct station for vehicle
- Integrating LDAP for user management

