

MICHIGAN STATE UNIVERSITY

Beta Presentation

“Alexa- what’s my work schedule look like?”

The Capstone Experience

Team Union Pacific

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Spring 2018

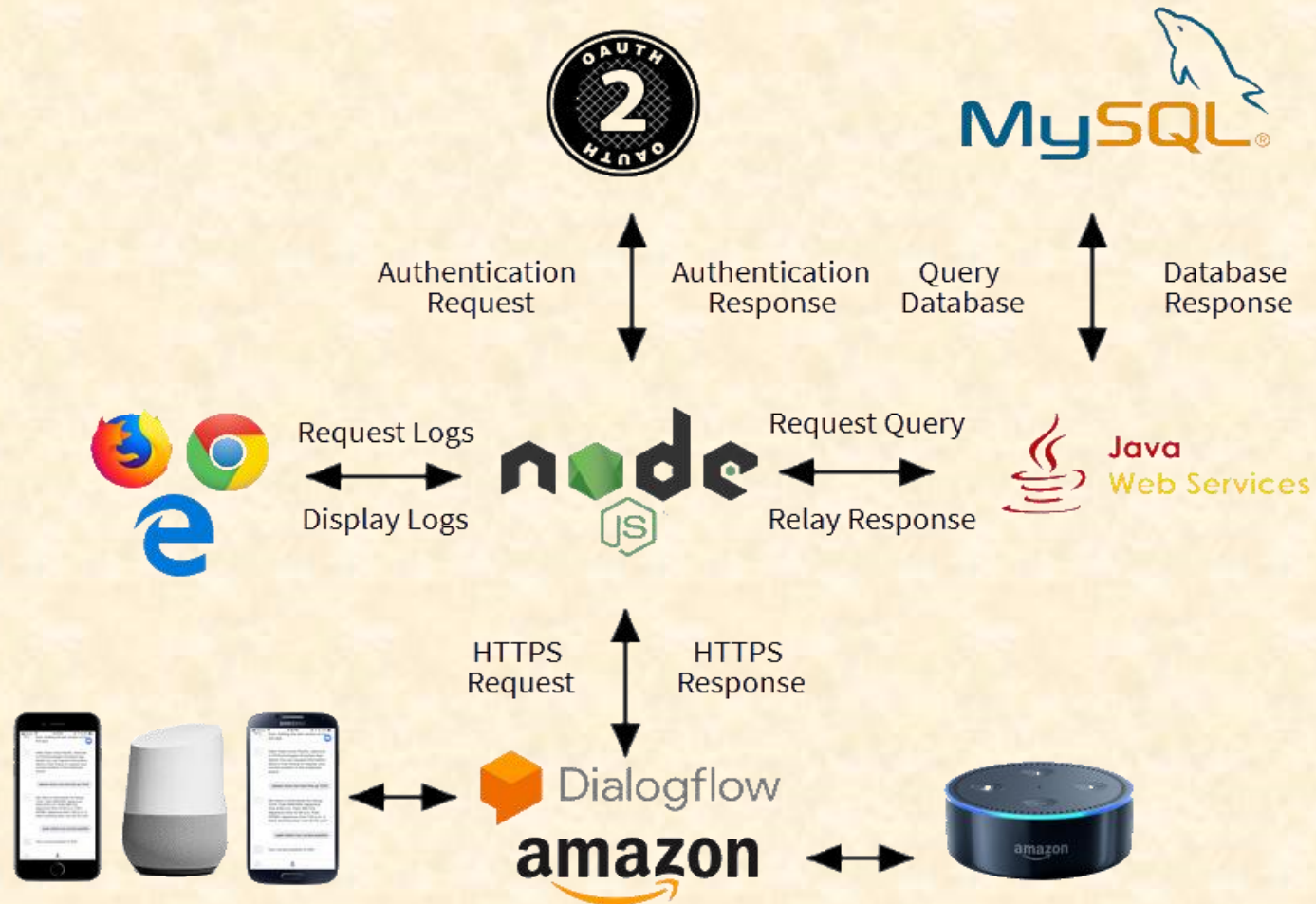


*From Students...
...to Professionals*

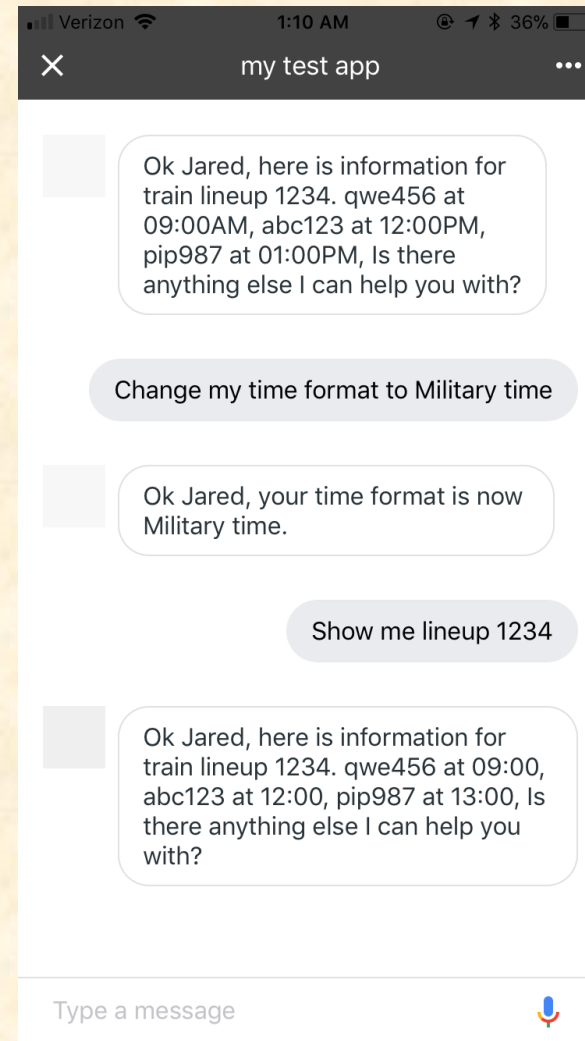
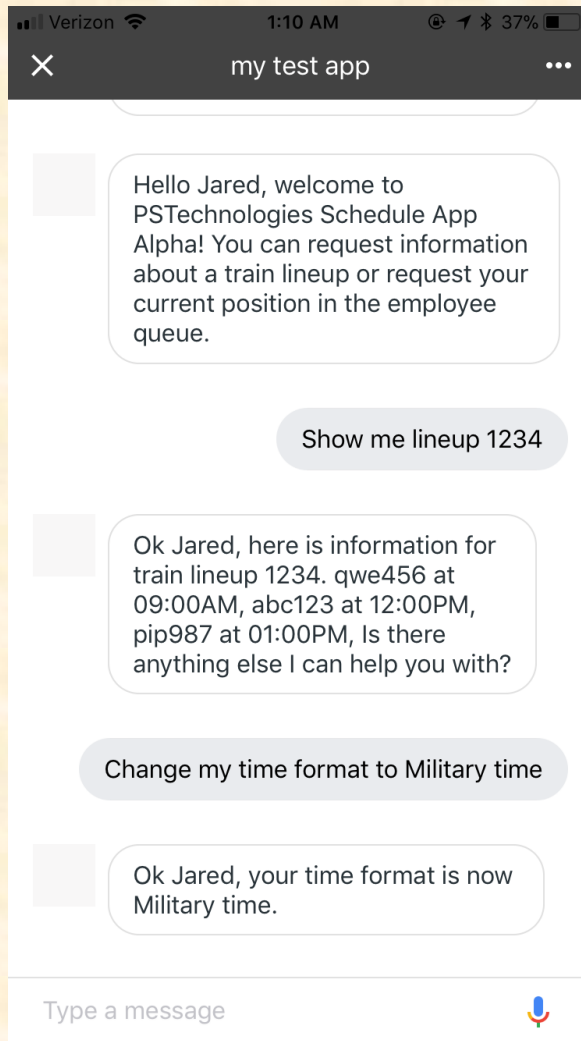
Project Overview

- Provide voice assistant applications for Google Assistant and Amazon Alexa to inform train drivers of their schedules
- iOS and Android mobile users can utilize the Google Assistant app
- Management has the ability to monitor usage statistics through a web application and generate pdf reports

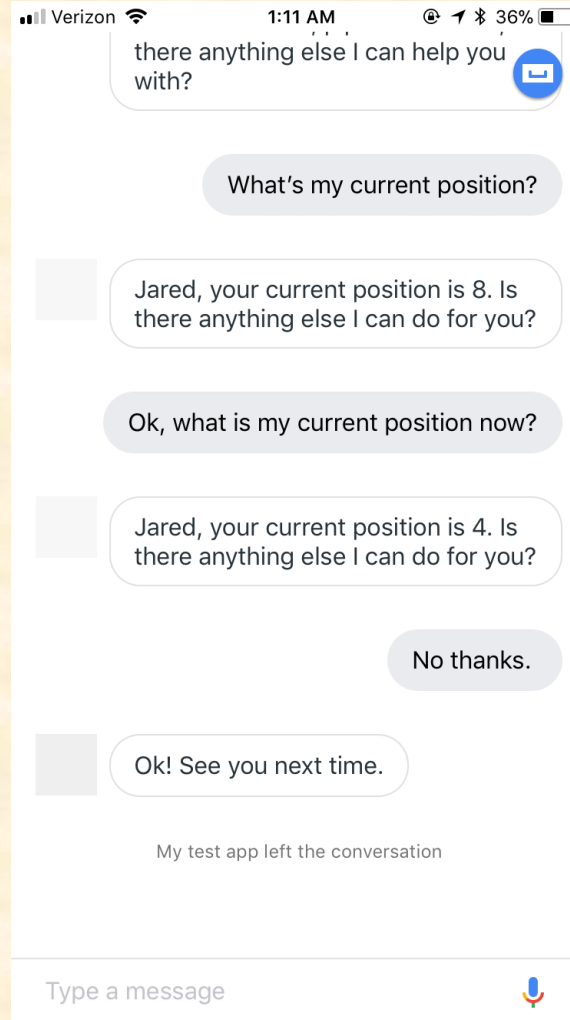
System Architecture



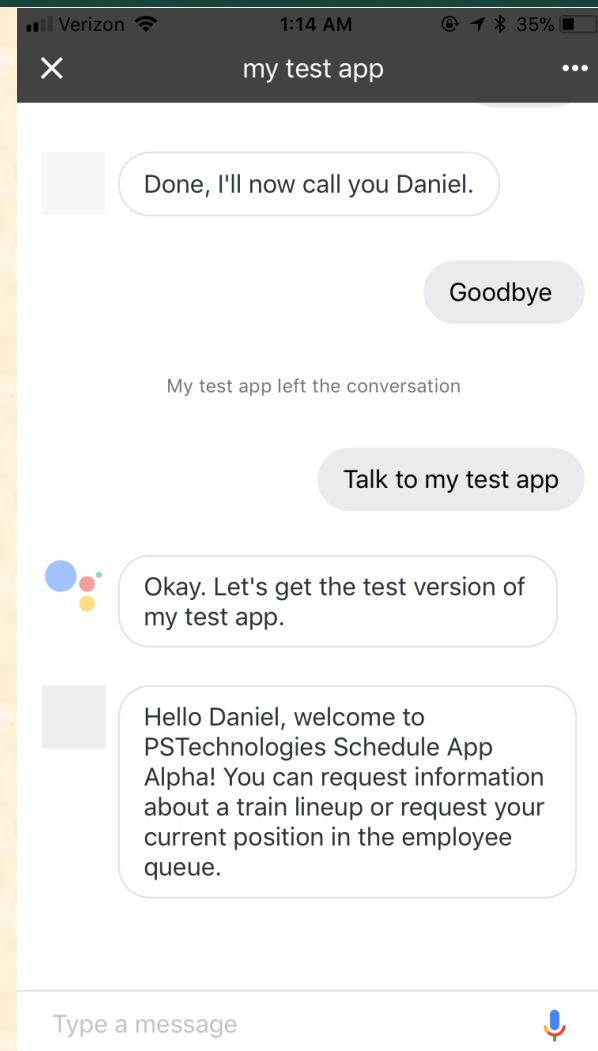
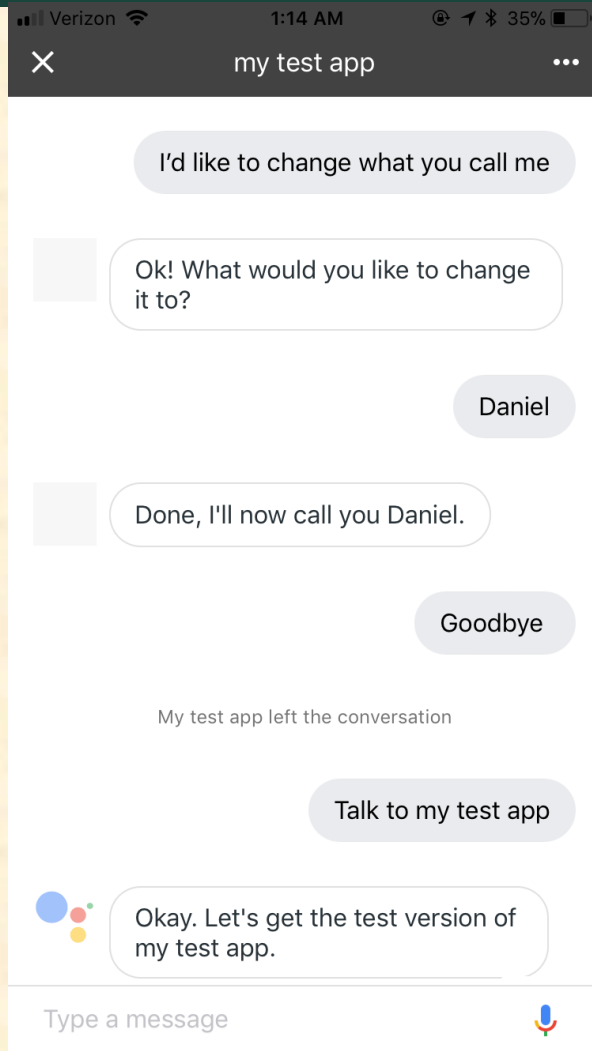
Request Train Lineup



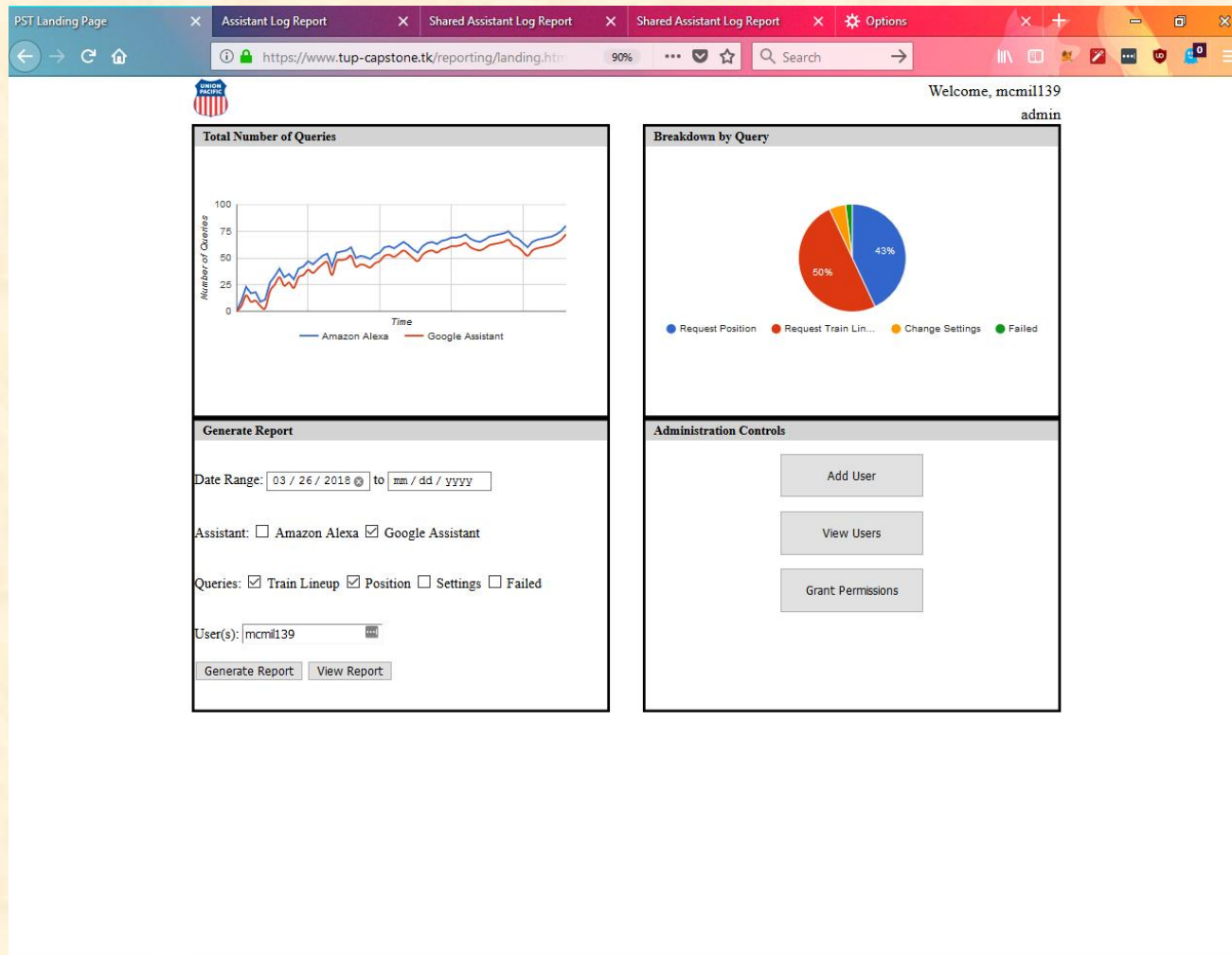
Request Times Out



Change Username



Web App Dashboard



Usage Log Report

| Union Pacific Assistant Log Report | | | | | | |
|------------------------------------|---------------------|----------------------------|----------------|-------------------------|----------|------------------------------|
| Information | | | | | | |
| Report Generated On | Report Generated By | Date Range | Assistants | Queries | Users | Share Report |
| Mon Apr 02 2018 | mcmil139 | 2018-03-26 2018-04-02 | Google | Train Lineup Positon | mcmil139 | Share Report |
| Logs | | | | | | |
| Date | Union Pacific ID | Raw Input | Intent | Assistant | Error | |
| 2018-03-30 00:54:48.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 02:19:03.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 02:19:52.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:00:48.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:02:17.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:04:03.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:05:13.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:05:56.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:13:52.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:15:21.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:17:43.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:18:22.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:18:56.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-31 20:40:01.0 | mcmil139 | whats my position | getEmpPosition | Google | | |
| 2018-03-31 20:45:57.0 | mcmil139 | show me lineup 5678 | getTrainLineup | Google | | |
| 2018-03-31 20:46:36.0 | mcmil139 | What's my current position | getEmpPosition | Google | | |
| 2018-03-31 20:48:59.0 | mcmil139 | whats my position | getEmpPosition | Google | | |

Shared Usage Log Report

| Union Pacific Assistant Log Report | | | | | | |
|------------------------------------|---------------------|----------------------------|----------------|--------------------------|----------|-----------|
| Information | | | | | | |
| Report Generated On | Report Generated By | Date Range | Assistants | Queries | Users | Shared By |
| Mon Apr 02 2018 | mcmil139 | 2018-03-26 2018-04-02 | Google | Train Lineup Position | mcmil139 | agbaydan |
| Logs | | | | | | |
| Date | Union Pacific ID | Raw Input | Intent | Assistant | Error | |
| 2018-03-30 00:54:48.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 02:19:03.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 02:19:52.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:00:48.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:02:17.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:04:03.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:05:13.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:05:56.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:13:52.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:15:21.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:17:43.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:18:22.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-30 21:18:56.0 | mcmil139 | Show me line up 1234 | getTrainLineup | Google | | |
| 2018-03-31 20:40:01.0 | mcmil139 | whats my position | getEmpPosition | Google | | |
| 2018-03-31 20:45:57.0 | mcmil139 | show me lineup 5678 | getTrainLineup | Google | | |
| 2018-03-31 20:46:36.0 | mcmil139 | What's my current position | getEmpPosition | Google | | |
| 2018-03-31 20:48:59.0 | mcmil139 | whats my position | getEmpPosition | Google | | |

What's left to do?

- Several bug fixes on log report generating
- Refactor several node scripts
- Provide additional conversation paths and widen scope of intent statements
- Connect IDs from accounts in different system parts in database
- Design day and project video

Questions?

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