

Capstone Status Report

30.10.2019





Scenario 1A

- The user is driving by a field.
- Recalls some information that is important.
- He is driving.



Scenario 1B

- The user is driving.
- Wants to read **notes** that was previously created.
- He is driving.



Scenario 2

- The user is driving.
- Disconnected from workspace.
- No clue about critical **notification**.



Scenario 3

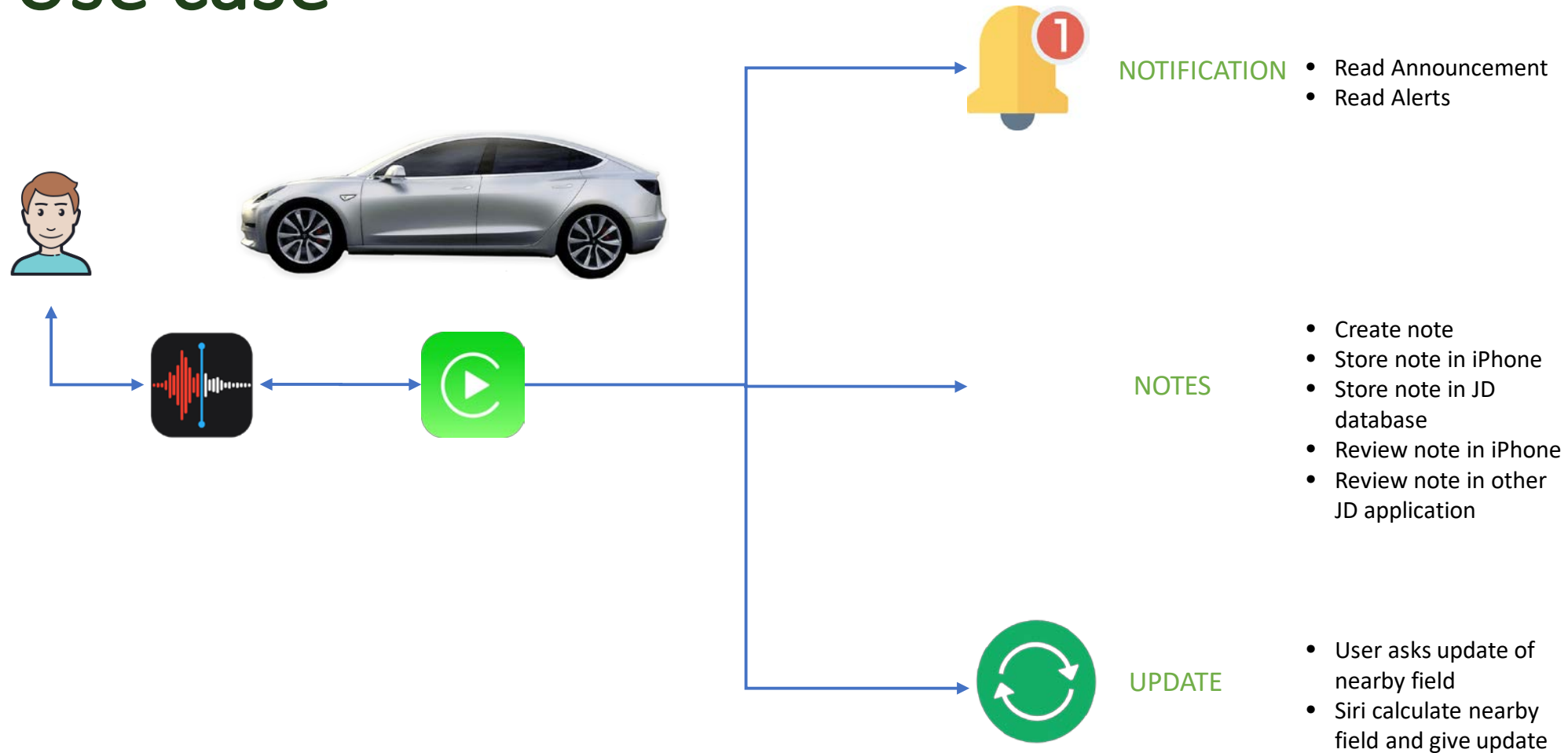
- The user drives by a field.
- Wishes to get corresponding **update**.



Features

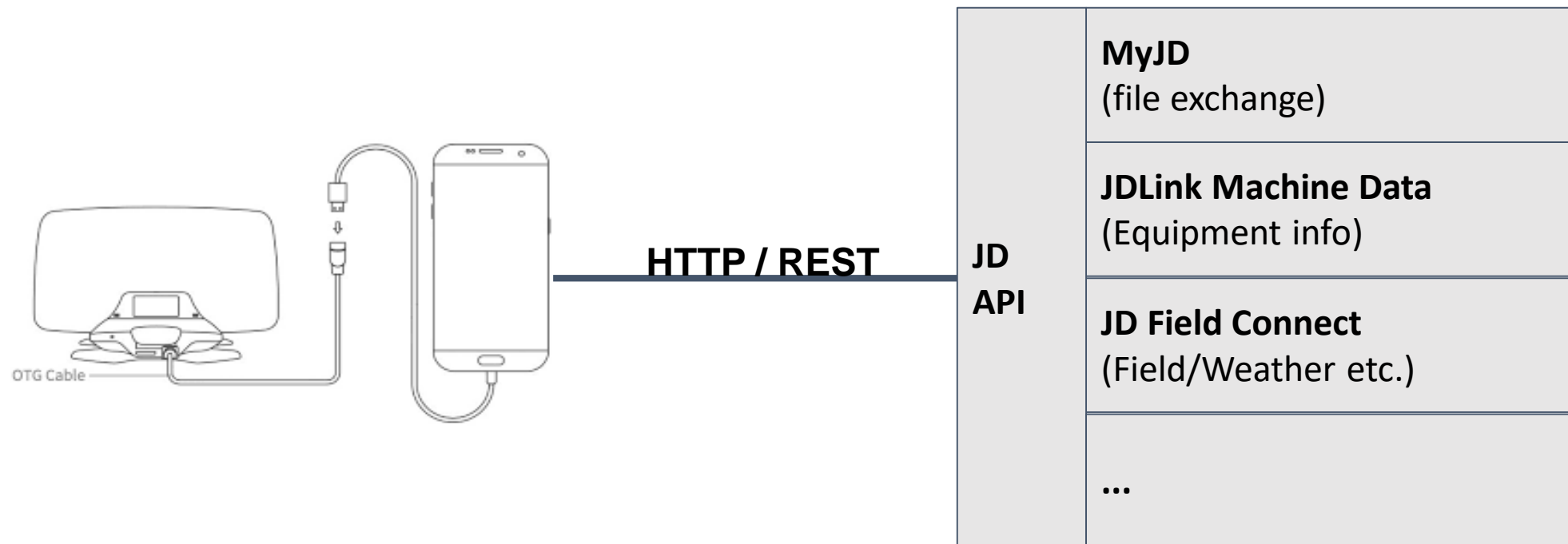
- Notes
 - User can create and hear voice notes through CarPlay.
- Notifications on CarPlay
 - User receives critical notifications.
- Updates on CarPlay
 - User receives important updates regarding the fields in the vicinity

Use case





Architecture

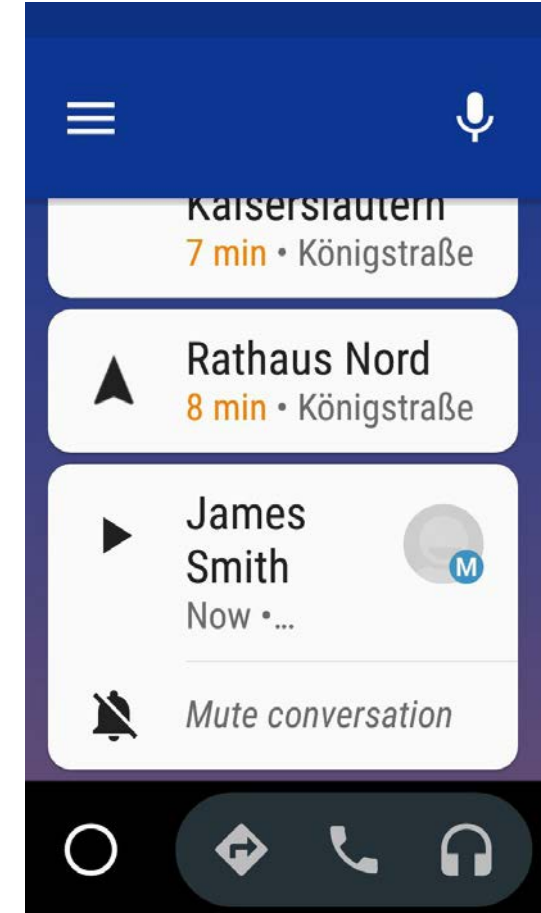




MVP

John is driving his car ...

- Restricted overview of scheduled operations for today
- Text-To-Speech
 - Notification from Global UI
- Voice Interactions
 - Add a flag on the current position and the corresponding field

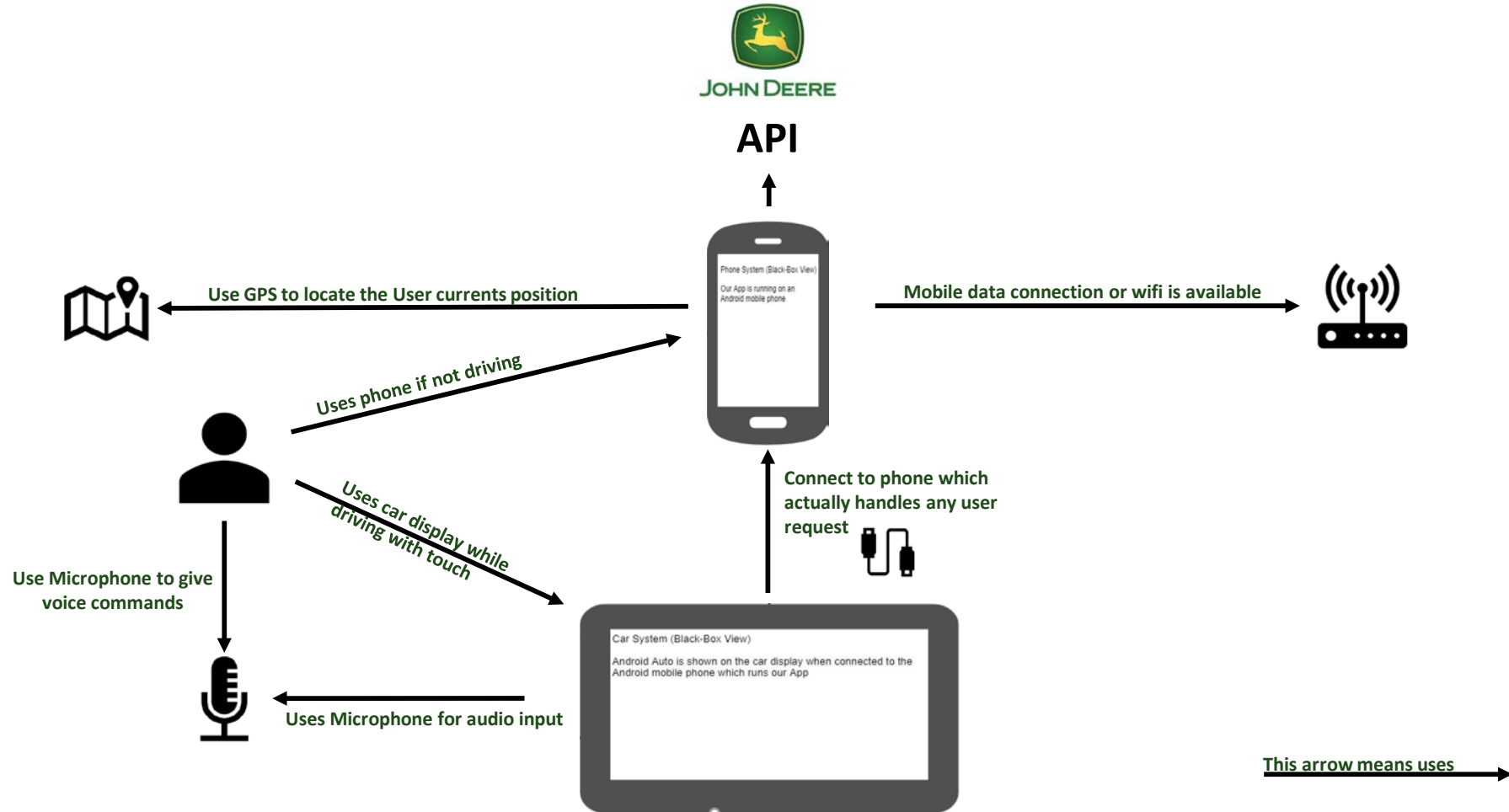




Voice Interaction - Flags



Architecture





Prototypes

- Carplay
 - Mockup screens with Siri developed in Adobe XD.
- Android Auto
 - Mockup screens in Adobe XD
 - App Prototype



Feature priority

1. Receive updates about fields in the vicinity
2. Receive updates about the machines in those fields
3. Receive notifications
4. Receive alerts
5. Create voice notes on CarPlay
6. Voice notes read to the user from CarPlay
7. Manage (edit, delete, read) notes from the iPhone



Status

Recap

- Research Android Cars / Style Guideline
- Build Android Auto Application

Challenges/Problems

- Voice Recognition Template Adaption – “Play me Fields”
- Text-to-Speech Elements
- Voice-Dialog with the System

Limitation

- Text-To-Speech is only available for Notifications

Iterations

