***CarPlay workflow:***

1. When installing the app, the user must add the shortcuts suggested by the app through the shortcut application.
2. The user has to log in to the app on iPhone.
3. The user must connect the iPhone with CarPlay.
4. To launch the app, the user can:

3-1- Click on the app icon on CarPlay.

3-2- Instruct Siri to launch the app.

3-3- Use any of the voice commands supported by the app (After it is added as a shortcut).

Note: If the user tries to launch the app without being logged in, using one of the former methods, then the response will be:

3-1- The app emits a voice output: “Please log in before using JD Driver app”.

3-2- The app emits a voice output: “Please log in before using JD Driver app”.

3-3- Siri will say: “Please log in before using JD Driver app”.

1. When the app is launched, the app would emit a voice output saying: “Welcome, username, please use Siri to interact with JD Driver”.
2. User invokes Siri, and gives a voice command (from the shortcut list), and depending on that the app would react.

**Use Cases:**

1. **Create a note:**

* Voice Command: “JD Driver take a note”.
* Context: The user is driving nearby his/her strawberries field, he notices that the strawberries are Orange!! and would like to add a note to remind himself to call the agronomist to examine the field".

OR: the user wants to create a general note about the organization.

* Flow:

1. Siri says: “Ok, Is it a general one or field related?”
2. The user specifies the type of the note:

2.1. General

Siri says: “Ok, Tell me the note?”

The user says the note.

Siri says: “Ok, this is your note:”, and then repeats the note to the user, then says: “Do you want to save it?”

User replies:

* 1. “yes”: then the note would be saved by the app, and Siri would notify the user saying: “Your note has been successfully saved”.
  2. “No”: then the note would be discarded by the app, and Siri would notify the user saying: “Ok, the note was canceled”.
  3. Other: Siri replies: “Please reply with Yes or No”.

2.2. Field related:

Siri says: "Please specify the field".

The user tells Siri the name of the field.

Siri says: “Ok, Tell me the note?”

The user says the note.

Siri says: “Ok, this is your note:”, and then repeats the note to the user, then says: “Do you want to save it?”

User replies:

a. “yes”: then the note would be saved by the app, and Siri would notify the user saying: “Your note has been successfully saved”.

1. “No”: then the note would be discarded by the app, and Siri would notify the user saying: “Ok, the note was canceled”.
2. Other: Siri replies: “Please reply with Yes or No”.

2.3. Unkown: Siri replies: “Please reply with a valid note type, either general or field related”.

1. Read a note: Should be read in as part of the updates or should it be

* Voice Command: “JD Driver read my notes [optional parameters]”
* Flow (without optional parameters):

1. Siri says: “Your last note, taken on (date) is” and reads the last note. If there are more notes Siri says: “Do you want to hear more notes?”
2. User replies:
   1. “yes”: Siri reads the note recorded before the note she previously read. If there are more notes Siri says: “Do you want to hear more notes?” then go to step 2.
   2. “No”: Siri says: “Okay”
   3. Other: Siri replies: “Please reply with Yes or No”.

* Flow (with optional parameters):

1. Filter the notes to fit the specified criterion and order them by the time of creation in descending order. Siri says: “Your note is” and reads the last note. If there are more notes Siri says: “Do you want to hear more notes?”
2. User replies:
   1. “yes”: Siri reads the note recorded before the note she previously read. If there are more notes Siri says: “Do you want to hear more notes?” then go to step 2.
   2. “No”: Siri says: “Okay”
   3. Other: Siri replies: “Please reply with Yes or No”.

ToDo: We should decide what are the feasible parameters. This should be discussed with the client(examples: Date).

1. **Nearby field updates since last visit:**

* Voice Command: “JD Driver give me updates”.
* Context: The user is driving the car nearby his/her fields and wants to be updated about the current situation of his/her organizations to be able to react quickly by examining the field himself/herself immediately if he/she was nearby or call someone else responsible to react.
* Flow:

1. The application would sort the fields in descending order by distance.
2. Siri says: “The (most important ;only for the first update) update of the nearest field is” and reads the update with highest priority. If there are more updates Siri says: “Do you want to hear more updates of this field?”
3. User replies:
   1. “yes”: Siri says the update with lower priority than the previous update said. If there are more updates for the same field Siri says: “Do you want to hear more updates?” then goes to step 2.
   2. “No”: Siri says: “Do you want the updates of the other fields?”
      1. User replies:
         1. “yes”: Siri says the update of the next closest field. If there are more updates Siri says: “Do you want to hear more updates?” then goes to step 2.a
         2. “No”: Siri says: “Okay”
         3. Other: Siri replies: “Please reply with Yes or No”.
   3. Other: Siri replies: “Please reply with Yes or No”.

ToDo:

* **What is the content of the update?**

From: Field Operations API

Field Operation Type: (Tillage, Seeding, Application, Harvest).

Start Date.

End Date.

The area worked on.

Furthermore:

Seeding: The crop planted, The amount of crops planted.

Application: The product applied, amount of product applied.

Harvest: The crop, The amount of harvested crops.

* **How to prioritize the updates?**

1. **Notifications:**

* Context: The user is driving his car to work or vacation and still wants to be notified about any critical situation (Severity of the notification: High) regarding his/her organization to be able to react quickly by examining the field by himself/herself immediately if he/she was nearby or call someone else responsible to react.
* Flow:

1. A critical notification is added to the user’s account (By a JD user).
2. The system notifies the user about the critical notification, by:

2-1- Pop-up message will show on the screen of the head unit.

2-2- If the icon of the app is showing in the status bar, a red dot will be added to the left top corner of the icon (If it was not already there because of a former notification).

2-3- If the user was already on the main view of the app in the head unit and the notification was related to a nearby field that is displayed by the system on the map, then the field is marked.

1. The user clicks on the notification or launches the app , then Siri says: You have (count) notifications, would you like to hear them?