



Knight Foundation
School of Computing
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Engineering
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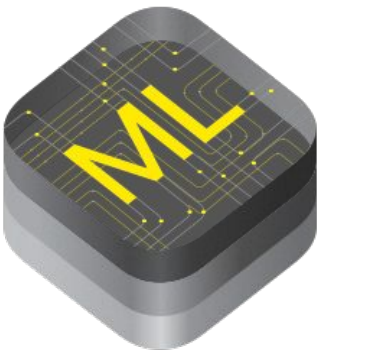
Spring 2021 Senior Design Project

Voice Recognition Virtual Reality (VVR)

Student: Weipei Wen

Product Owner: Dr. Amir Khoddamzadeh

Instructor: Dr. Masoud Sadjadi, Florida International University



Problem

Dr. Khoddamzadeh presented the idea for the app in order to provide a tool for farmers to determine whether their plants need more fertilizers or if they are using too much of it.

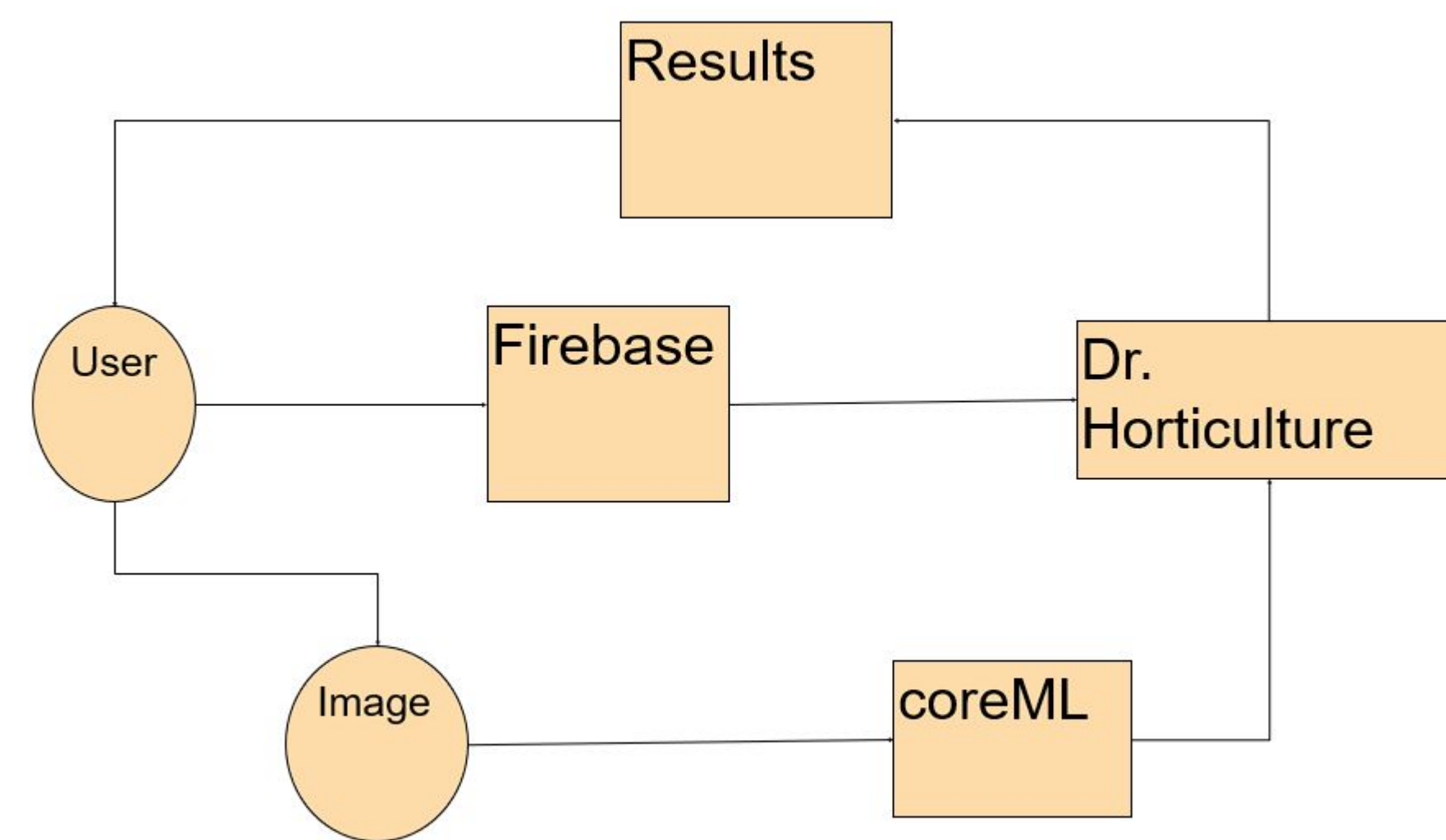
Current System

- The app is in development through Xcode for deployment in iOS devices.
- Images are analyzed through coreML and results are displayed to the user.
- Authentication and database are hosted through Firebase

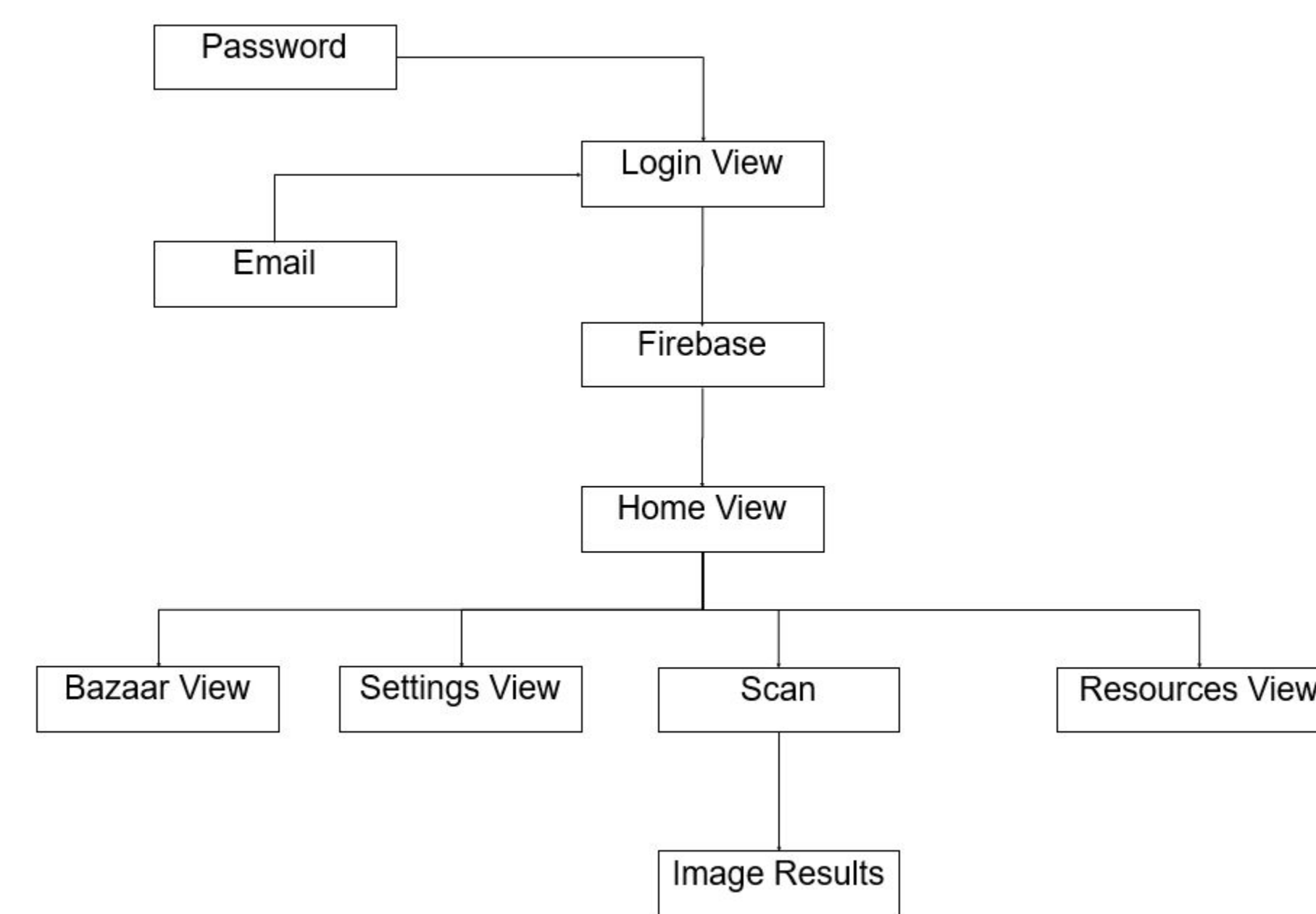
Requirements

- Simple and intuitive design.
- Ensure that the plants' data is correctly calculated
- Seamless authentication process
- Bazaar Store to be functional.

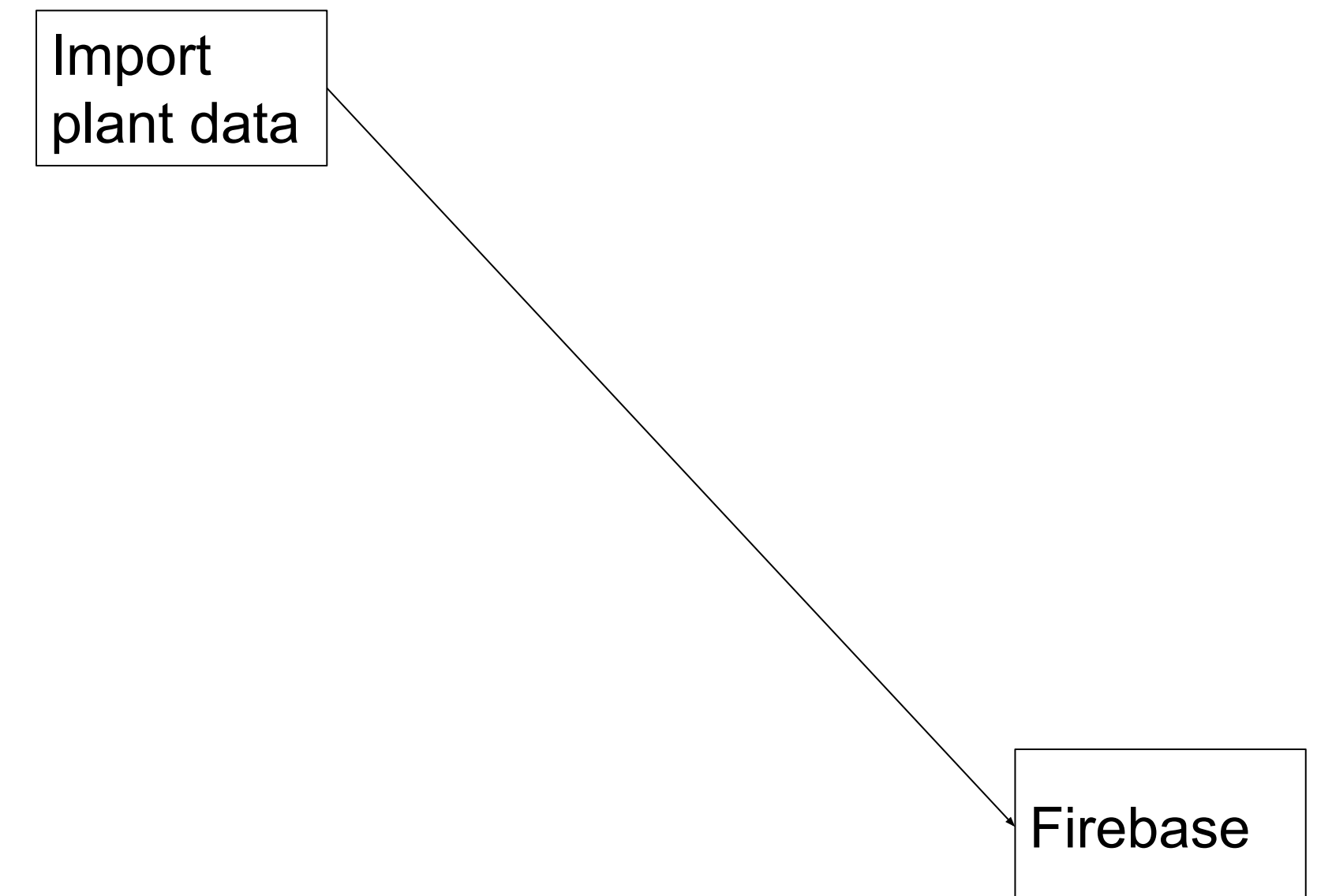
System Design



Object Design



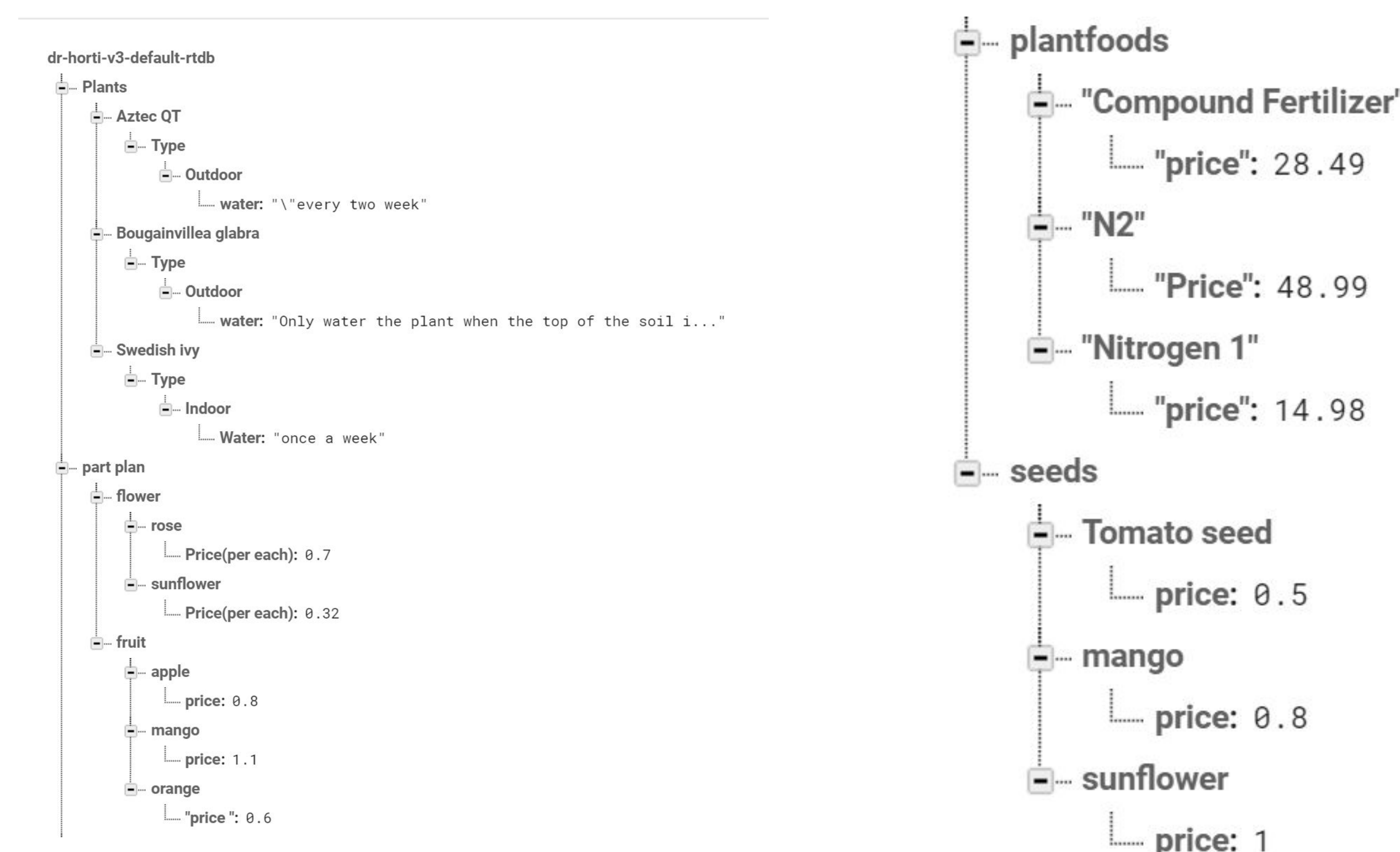
Implementation



Verification

Purpose	import the plant data to database
Conditions	import success
Expected Results	data saved
Actual Result	data saved
Status	Passed

Screenshots



Summary

- Plant data import and save to firebase success, database contain such as seed, flower, fruit, and fertilizer.
- Still need more plant data

Acknowledgement

The material presented in this poster is based upon the work supported by XXXXX (name of the sponsor: federal, state or local, or industry, if applicable). We/I thank XXXX for assistance, cooperation and mentorship that I/we received throughout this process