

## Data Storage



Azure SQL Database

Tables containing environmental parameters, plant health, plant species, factors regarding per species plant health, etc.

## Data Collection

Raspberry Pi



Stores data for historical use.

Relative Humidity Sensor



Light Exposure Sensor  
Rhizosphere Moisture Level Sensor



Assesses urgency of collected data, if plant is in critical condition alerts user.



## API

Handles interactions between Pi hub, Android client, and DB via gRPC.

## Plant Assessment & Viewing



Requests recent data in background, or when user opens application.

Android



User can view drilldown of important health data and recommendations for care-improvement.



User can view health of individual, or network of, plants at a glance.



User can view historical data and plant metrics over different seasons.