**Raspberry Pi Final Project Title**

Green Thumb

**Project Team Members**

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**Project Summary**

A sensor will detect when a plant needs water, then the user will be notified through a speaker. Some statistics will be displayed on a screen.

**Features**

Core:

* GUI with menu of statistics
  + When plant was watered
  + Measurements from the sensor
* Moisture sensor that reads the moisture of the soil
* Speaker that notifies when plant needs water

Extra:

* Different voices that the speaker sounds like
* Option to choose different voices on the GUI
* Notify when the plant over hydrated
* Personality to plant (speaker will just say random things like “Hello”)

**GPIO**

We plan to use a moister sensor that will be placed in the soil of a potted plant. This sensor will be used to measure the amount of water/moisture in the soil. Then we also plan on using a speaker to notify the user of when the plant needs water.

**GUI**

The GUI will be a menu that the user can choose from. Different options of statistics can be chosen like days of plant being watered, or a graph of measurements from the sensor over time. The user will also be able to change settings like the voice of the speaker, or whether the statistics are shown in day, week or month view.

**GitHub Repository**

This project's GitHub repository is located at: <https://github.com/AnimationDalmatian/Green-Thumb>

**Gantt Chart**

