Greenhouse System Scale Model

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Project in Collaboration with Humber Arboretum

**Overview**

Humber Arboretum needs a system to measure and display, in real-time, the appearance, temperature, humidity, and soil moisture of the plants in its nursery. Through an app, employees can view these measurements online. It will be connected to the firebase database through the internet. Firebase server will hold all the levels measured by the sensors and will send it to the mobile application. The mobile application will display those levels on the screen when the user's login. There is an additional camera option in the app which will allow users to click the picture and share it on social media.

**Real Life Problem**

The real-life problem being solved by this project is that Humber arboretum and several other nurseries don’t have a proper system to measure temperature, humidity and soil moisture levels. This monitoring system will help them to keep track of everything related to the health of the habitat.

**Our Solution**

To build a device capable of reading temperature, humidity and soil moisture to be used in plant nurseries. Along with a constructed mobile application that can be used to access a database to show users real-time information regarding temp, humidity and soil moisture