# PlantBot Search Tool

The PlantBot application leverages search functionality in order to search a database of plant data and a tropical-plants API to locate and return plant data based on user inputs.

## Functionality

The application opens on a landing page that contains the six text fields, a Search button, and links to useful Websites. Users can type search data into any, some, or all of the following PlantBot search fields:

* Common name search field
* Botanical name
* Cultivar
* Lighting requirement search drop-down selector
* Water requirement search field
* Soil type search drop-down selector

Clicking the Search button opens a second page, which returns a single plant.

## Methodology

The Agile Scrum project methodology is engaged for this project with a 72-hour sprint cycle and daily standups.

## Technologies

The application is being created using the following technologies:

* HTML
* CSS
* jQuery
* Javascript
* Express
* BodyParser
* Method Override
* Axios
* Node
* Heroku
* MySQL Workbench
* Sublime
* MySQL for Excel
* Excel
* MySQL
* Sequelize
* World Wide Web

## Features and Priorities

The following table lists the product requirements with development priority level.

| **Feature** | **Priority** |
| --- | --- |
| **General** | |
| Common name search field | 1 |
| Botanical name search field | 1 |
| Cultivar search field | 1 |
| Lighting requirement search drop-down selector | 1 |
| Water requirement search field | 1 |
| Soil type search drop-down selector | 1 |
| Add plant to database | 3 |
| Link to useful websites | 1 |
| Fertilization | 3 |
| Future: multiple results with extra pages, next and back buttons, & etc. | 3 |
| Page two search results | 1 |
| Search again button to go back (redirect) | 1 |
| Database | 2 |
| Tropical API (new technology) | 1 |
| USDA API | 3 |
| **UI** | |
| Two pages | 1 |
| Buttons: search and search again | 1 |
| Backgrounds on each page | 2 |
| Choose fonts | 1 |
| Fading in/out images of plants | 3 |
| Form fields | 1 |
| Nav bar/header at top | 1 |
| Footer at bottom | 1 |
| Scalable view | 2 |
| Useful links in sidebar | 2 |
| Open links in new tab | 2 |
| Error page in case of type and no results or if application breaks or whatever | 1 |
| Styles | 1 |
| Handlebars (opt) |  |
| **BACKEND** | |
| Capture input from search buttons | 1 |
| Format input in array | 1 |
| Trim out spaces | 1 |
| Collect results and point to display on page two | 1 |
| Button functionality for both buttons | 1 |
| Route to error page | 1 |
| API call | 1 |
| Boiler plate code | 1 |
| Excel add-on | 1 |
| Schema | 1 |
| Seeds | 1 |
| Config.json | 1 |
| Create server | 1 |
| Database: CRUD (boilerplate) | 1 |
| Other boilerplate file changes | 1 |
| Database: queries | 1 |