Problem: Home Gardening is hard to get into and maintain   **Project Name:** Green Thumb
Owner: Julibert Diaz Collazo   **Date:** 1/24/2022

Background & Problem Statement

Healthy eating is becoming more prominent, but often it comes at a steeper cost than other alternatives or even eating out. One solution to this has come in the form of home gardening, but this poses the challenge of starting out, lack of general gardening knowledge and the time it consumes. It isn't common practice to grow your ingredients at home, add to that many people live in apartments or similar confined city spaces, low income, or seeds/seedlings are hard to come by, and you have a difficult set of obstacles to hurdle over. This doesn't cover all the possible problems, nor does it intend to, rather is a starting point to expand upon and react accordingly as progress is made and feedback is received. What we want to do is close the knowledge gap and increase accessibility for the average home gardening beginner.

Goal Statement & Target Condition

The goal is to develop an intuitive system, assuming that most of the user base will be gardening beginners with basic internet access and application. A category system ensures both easy navigation and data organization, complemented with tags and/or filters will help users avoid "overchoice" and narrow down results according to their needs. A little marketplace section could be added, where fellow gardeners can sell seeds or seedlings, as many plants produce them during their bloom/harvest season and even sell gardening items in good condition that may serve others starting up. Experts and sources would also be available, either by links and or contact info.

Implementation Plan

For the web application. maintaining an intuitive UI is very important, and as such the structure would follow a mix of commonly known a recipe sharing sites and online market sites, where the user can choose where they start their search and either select the results brought or continue narrowing down the results or go to the market section and either offer or peruse the selection of items available.

Cause Analysis

Factors that have significant impact on cost and plant longevity:
- Seed/Seedling availability
- Plant care
- Plants preferred biome/season dependent
- Gardening costs/materials/time consumption
- Available space vs space requirement
- Knowledge and understanding of the subject matter & Accessibility

Follow-Up & Standardization

User feedback and rating would be used to rate the suggestions and guide effectiveness. If a guide receives consistent good reception, it'd be suggested more often to users with similar searches, while those of poor reception will be revised and corrected. This will include having version controls for all guides.