Project Plan: Thomas Jefferson's Garden App

1. Introduction
   - This document lays out a project plan for the development of the "Thomas Jefferson's Garden App" system by Dale Woodard.
   - The intended readers of this document are current developers and stakeholders working on "Thomas Jefferson's Garden App" and the sponsors of the project. The plan will include, but is not restricted to, a summary of the system functionality, the scope of the project from the perspective of the "Thomas Jefferson's Garden App" team (my mentors and myself), scheduling and delivery estimates, project risks, and how those risks will be mitigated, the process by which I will develop the project, and metrics and measurements that will be recorded throughout the project.
2. Overview
   - From 1766 through 1825 Thomas Jefferson kept a horticultural diary. In his early twenties he recorded that 2500 pea seeds would fit in a pint mason jar. In November of 1825 he requested from the governor of Ohio seeds for a giant cucumber. Jefferson had a life long interest in horticulture which made me think if he were alive today what would his journal look like? I hope to answer that question with the "Thomas Jefferson's Garden App".

2.1 Customers
   - Everyone. Whether you are a hardcore gardener or just want to keep track of a couple hose plants the application is right for you.

2.2 Functionality
   - Users should be able to design the layout of their garden.
   - Users should be able to place plants in a location in the garden.
   - Users should be able to track multiple metrics for each plant.
   - Users should be able to write notes.
   - Users should be able to upload images and associated it to any element tracked in their garden.
   - Users should be able to set reminders.
   - Users should be able to track weather.
   - *Users blog (future)*

2.3 Platform
   - TJGA will be launched as a web-based application
   - Future versions will include a Mobile app for Android.

2.4 Development Responsibility
   I, Dale Woodard, will be developing the software and databases.

3. Goals and Scopes
   - Initial application will have a single user with the intent of using it as a demo.
   - Initial application will have ability to upload images to a single

online platform with the goal of adding other popular image repositories for multiuser version release.

- Single user level authentication with goal of adding multiple user layers of authentications.

4. Deliverables

I will deliver the following during the course of development:

- Feature specifications
- Product Design
- Test Plan
- Development Documents
- Source Code

5. Risk Management

6. Scheduling and Estimates

Milestone	Description	Date	Version
M1	App view and Design (front end development)	09/24/21	
M2	DB (back end development)	10/01/21	
M3	Restful APIs and integrate external APIs	10/08/21	
M4	Integrate front end and back end	10/15/21	
M5	Test initial release	10/22/21	
M6	Stakeholder test and Issue tracking	10/29/21	
M7	*Final Release*	*11/05/21*	

7. Technology

Following is the languages, frameworks and technology I will be using:

- React
- Django/Python
- Restful APIs
- PostgreSQL/SQLite
- Test driven Development (backend)
- Git
- Agile as you can get on a solo project.
- *Docker if time allows*
- *AWS if time allows*