

# GreenSprouts – AI-Powered Plant Care App

## Final Report

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### 1. Project Overview

**Project Name:** GreenSprouts – AI-Powered Plant Care App

**Objective:** To develop an interactive prototype for an AI-powered plant care application that helps users manage their plants effectively with features like task reminders, plant health tracking, and a community forum.

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### 2. Problem Statement

Many plant owners struggle with maintaining plant health due to lack of knowledge, inconsistent care routines, and difficulty identifying plant problems. GreenSprouts aims to provide an intuitive, AI-driven solution to assist users with plant care through reminders, health tracking, and a community-driven knowledge-sharing system.

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### 3. Design Thinking Approach

#### Empathize

- Conducted research with plant enthusiasts and casual gardeners to identify common challenges.
- Key pain points: forgetting to water plants, difficulty diagnosing plant issues, and lack of an engaging plant care system.

#### Define

- The primary users need a **simple yet intelligent system** to manage their plants efficiently.

- Key features: **Task reminders, health tracking, AI-based plant diagnosis, and community support.**



## Ideate

- Brainstormed UI/UX ideas and functionalities.
- Decided on an AI-powered approach to provide personalized plant care suggestions.



## Prototype

- Created a wireframe and later developed an interactive prototype using **Motiff AI**.
- Focused on a **clean and minimalistic design** with easy navigation.



## Test

- Conducted **user testing** with 5 participants and made improvements based on feedback.



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# 4. Prototype Development

## Tools Used

- **Motiff AI** – For generating interactive UI/UX prototypes.
- **Figma** – For refining UI components and wireframes.
- **GitHub** – To store documentation, images, and user testing reports.

## Key Features Developed:

1. **Task Reminders** – Users get automated alerts to water, mist, and check plant soil.
2. **Plant Health Monitoring** – AI-powered insights on plant health, including temperature, moisture levels, and recommendations.
3. **Community Forum** – Users can share experiences, ask questions, and interact with fellow plant lovers.






4. **Simplified Navigation** – Clear, intuitive UI for seamless user experience.
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## 5. User Testing & Iterations

### Testing Approach

- Conducted user testing with **5 participants** (plant owners & casual gardeners).
- Participants interacted with the prototype and provided feedback.

### Key Feedback & Implementations

Category	Feedback Given	Iteration & Fix Implemented
 <b>Home Screen</b>	Text-heavy, lacked visuals	Added images & progress bars for clarity
 <b>Task Section</b>	Hard to track tasks	Introduced checkbox & progress indicators
 <b>Community Tab</b>	Not engaging	Added a "Share Tips" feature and badge rewards
 <b>Navigation</b>	Confusing tabs	Merged "Library" & "Care Guide" under one section
 <b>Readability</b>	Text too small	Increased font size & spacing

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## 6. Final Outcome & Learnings

### Improvements Achieved

- ✓ Enhanced user interface with better readability and navigation.
- ✓ AI-driven plant monitoring system implemented successfully.
- ✓ Users found the app **more engaging and intuitive** after iterations.

### Key Learnings

- **User feedback is crucial** in refining UI/UX.
- **AI integration** significantly improves personalized experiences.
- **Simplicity & engagement** are key to a successful plant-care app.