

Course 6 – Creating Futuristic Designs with AI

PlantPal **Personalized Plant Care Using AI**

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Introduction

PlantPal is a mobile app designed to help users build a strong habit of indoor plant care. From watering reminders to personalized tasks and AI-powered plant health diagnosis, it simplifies the process of taking care of houseplants. This project demonstrates how AI tools can be integrated throughout the UX design process to enhance user experience, reduce complexity, and improve engagement.



Problem Definition & Research (AI-Assisted)

Urban plant lovers, especially beginners and busy professionals, often struggle to maintain their indoor plants due to irregular care schedules, confusing advice, and lack of clear guidance. Forgetting watering days, identifying plant problems, or managing multiple plant types can become overwhelming, leading to plant damage and user frustration.

Goals:

- Help users schedule and manage plant care routines
- Offer personalized reminders based on plant type and location
- Diagnose plant issues using AI image scanning
- Build a supportive community for plant lovers

User Persona



Aisha

About

- 👤 Female
- 💼 Freelance Graphic Designer

Tasks

- Follow a personalized care calendar for each plant
- Accurate indoor lighting care information
- Share individual plants with the community

Core Needs

- Reminders for watering and fertilizing each plants
- Accurate indoor lighting, lighting care information
- Diagnose health issues with user community

Motivation

- Fear of overwatering or under watering leading to inconsistent results
- Confusion from contradictory plant care advice

Fear & Frustration

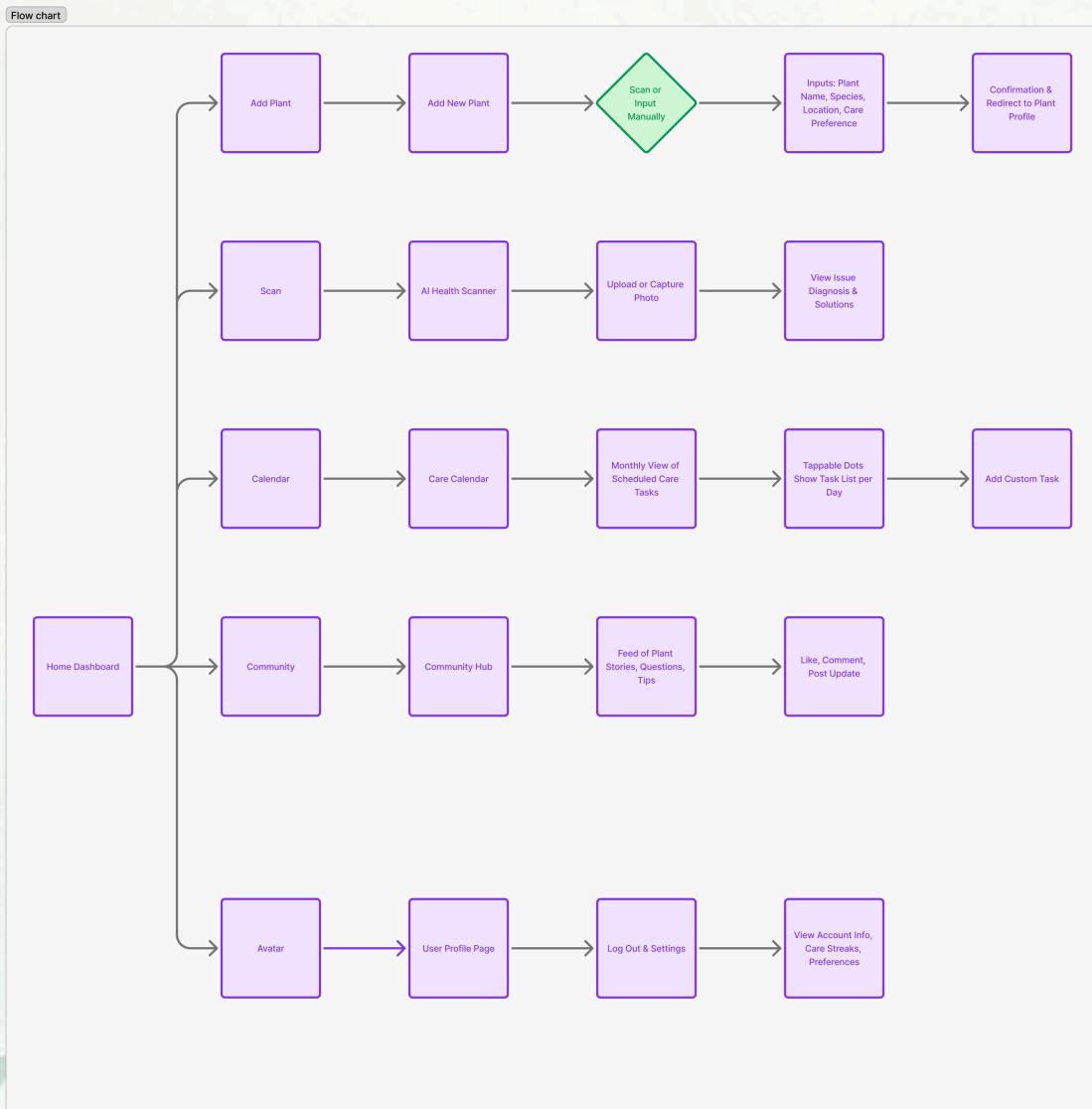
'Balancing creativity and care—whether in design or keeping plants—I strive for growth from every experience!'

User Journey Map

Stages of Journey	Awareness	Search	Download	Installation	Use	Support	Review
User Goals	Discover a solution for plant care struggles	Find a trusted app	Get the PlantPal app	Set it up without issues	Use the features with ease	Get help when needed	Share feedback or rate
Activities	Browses blogs, videos, and Instagram posts	Googles 'best indoor plant care apps'	Finds PlantPal in Play Store, reads reviews	Installs and completes onboarding flow	Schedules tasks, checks health scanner	Messages community or support team	Posts a review, shares feedback
Touchpoints & Channels	Instagram, YouTube, Reddit	Google, product comparison blogs	Play Store / App Store	Onboarding screens, tutorials	Main app UI, calendar, scanner	Chatbot, help FAQ, email	App rating popup, social media
Emotions	Confused by too many sources	Finds helpful suggestions	Excited to try the app	A bit nervous about setup	Confident using features	Relieved after getting help	Proud to recommend app
Pain Points	Conflicting care advice	Too many similar apps	Unsure which one is reliable	App setup takes time	Misunderstood notifications	Delay in support replies	Hard to express feedback clearly
Improvement Opportunities	Highlight unique features in ads	List clear benefits with social proof	Better feature demo previews	Offer simplified onboarding steps	Smart reminders & visuals	Faster responses in chat	Auto-request user reviews at right time

User Flow Diagram

The following user flow was generated using FigJam AI based on the final screen architecture. It represents key user interactions from entry to task management, plant diagnosis, community sharing, and profile access. Each flow branch originates from the Home Dashboard, aligning with the PlantPal navigation structure.



Feature List & Prioritization

AI Prompt Used (ChatGPT):

“Generate 8–10 feature ideas for a plant care app based on the persona Aisha Khanna. Focus on care tasks, diagnostics, reminders, and community support.”

Feature	Purpose	User Need Solved
Home Dashboard	Shows today's tasks, progress, and shortcuts	Helps Aisha stay on track with care routines
Add Plant Flow	Allows scanning or manual plant setup with care schedule	Simplifies setup & supports personalization
Plant Profile Page	View plant health, history, growth log	Keeps care transparent and trackable
AI Health Scanner	Detect issues from photo (e.g., pests, yellowing leaves)	Empowers non-experts with quick problem detection
Smart Care Calendar	Monthly calendar of tasks with color-coded cues	Builds habit and allows scheduling flexibility
Community Hub	Share tips, ask questions, interact with plant lovers	Reduces isolation, boosts confidence and motivation
FAB – Quick Add	Floating button to add tasks/plants instantly	Increases speed and interaction frequency
Task Customization	Add custom care reasons, adjust frequency	Supports edge cases and personal goals
Progress Gamification	Optional badges, streaks for consistent care	Keeps the experience rewarding and habit-forming

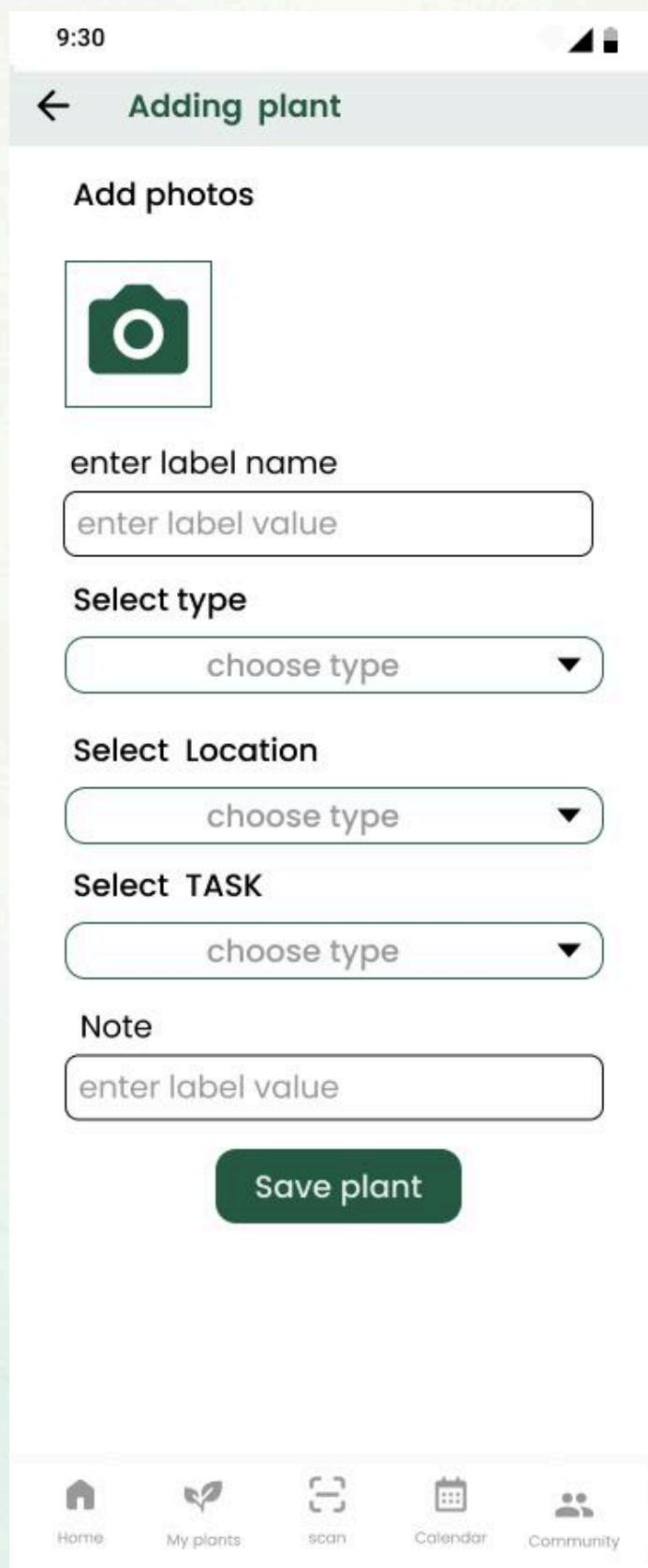
Home Dashboard

This screen welcomes users and displays daily plant care tasks, progress overview, and quick navigation. It sets the tone for consistency and ease.



Add New Plant Flow

Allows users to add a plant manually or by scanning. Includes species, location, and care settings to personalize reminders.



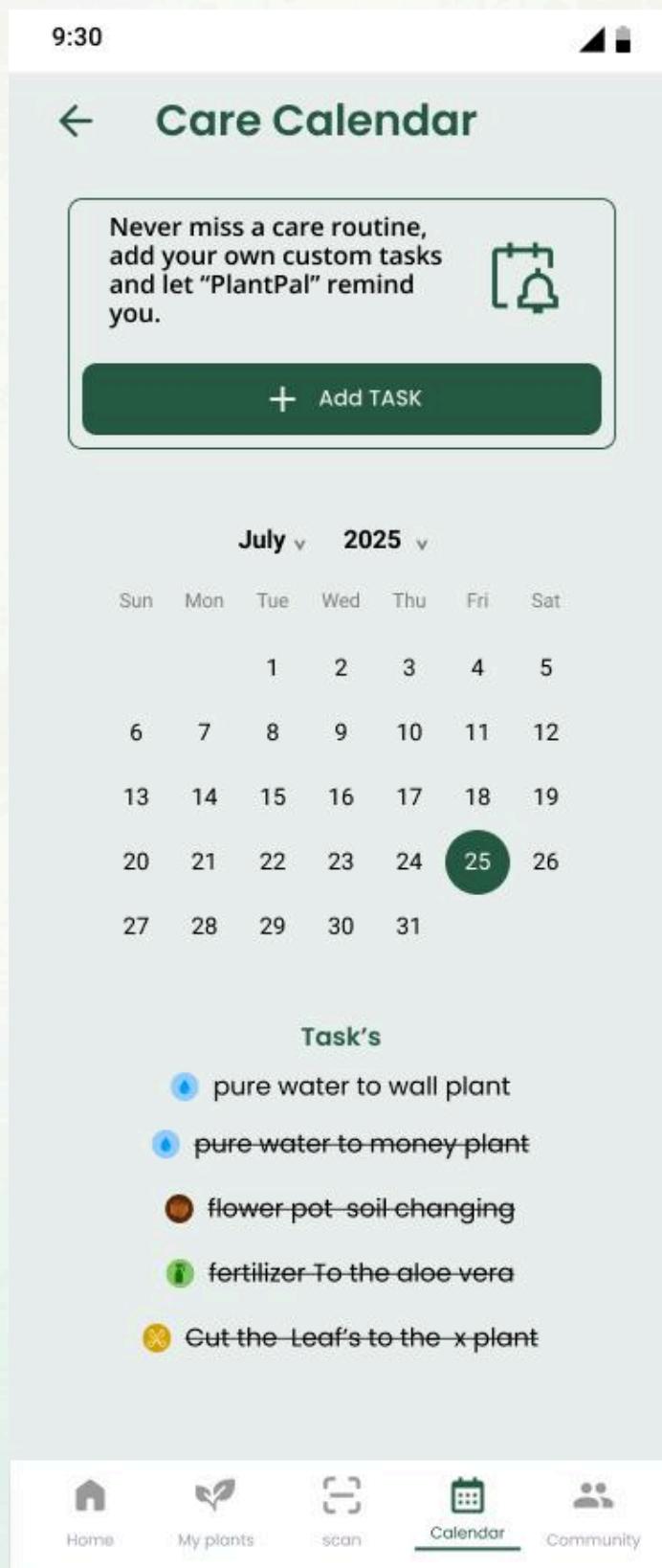
AI Health Scanner

Enables users to upload a photo of their plant and get AI-based diagnostics and care suggestions.



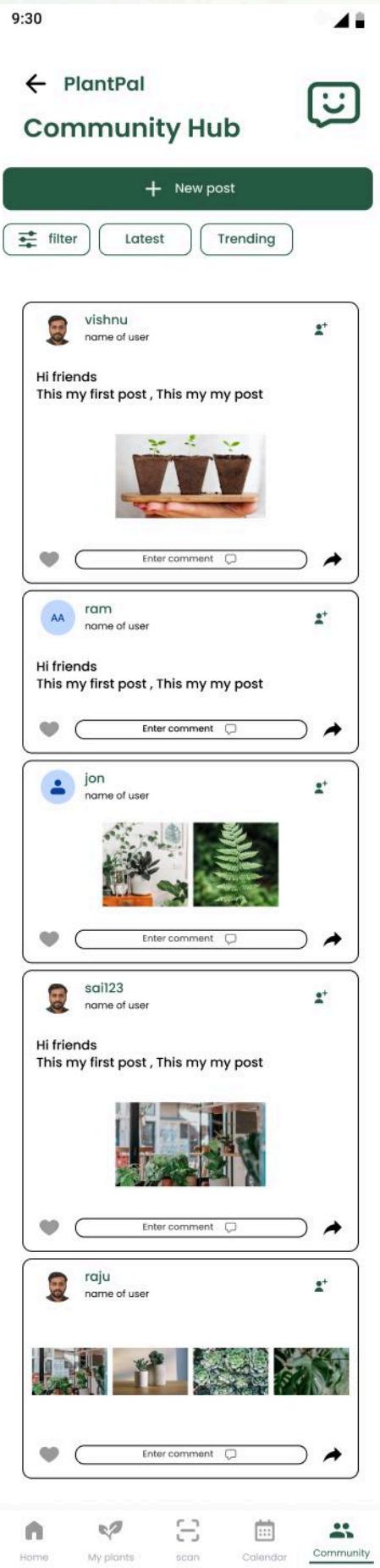
Care Calendar

Shows a monthly view of scheduled tasks with color-coded indicators. Supports long-term habit building and care planning.



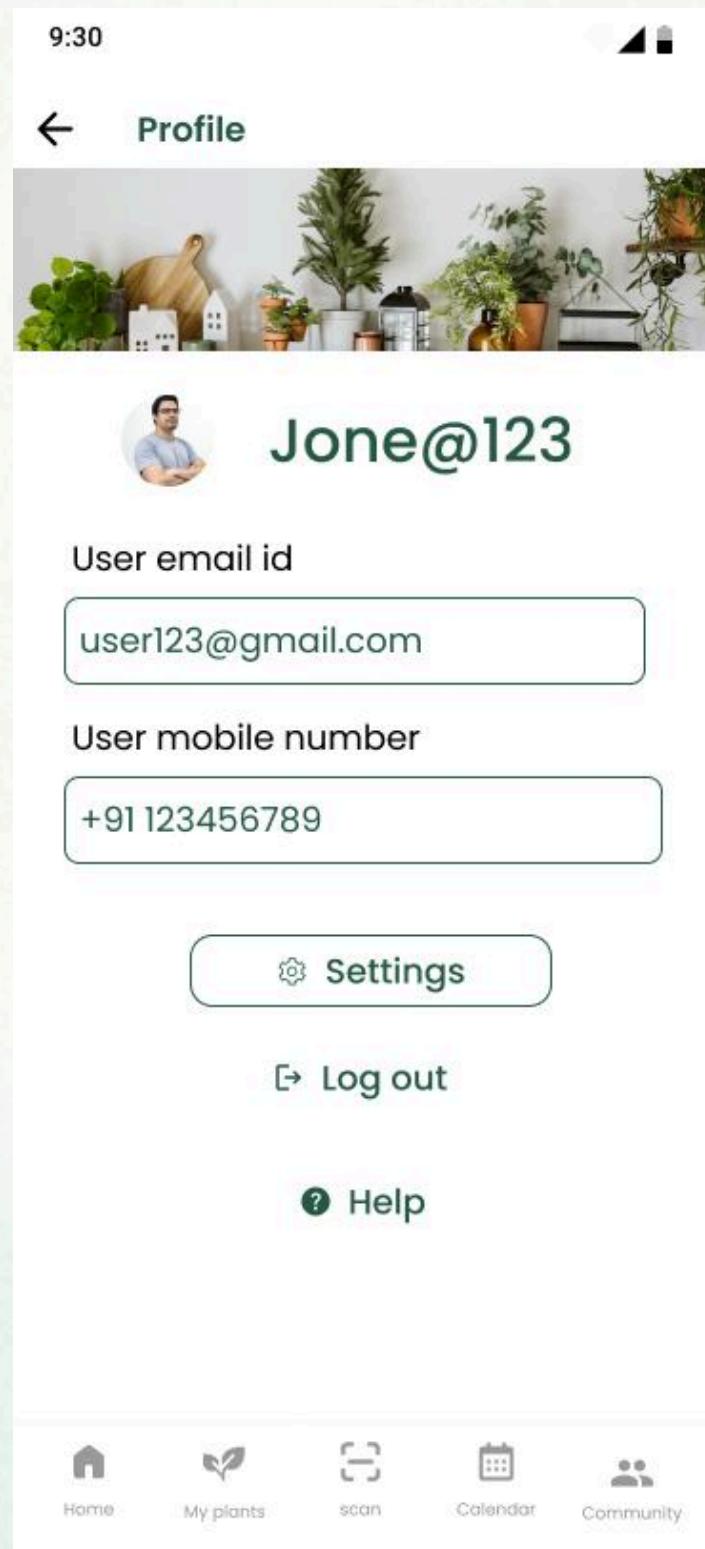
Community Hub

Users can ask questions, share experiences, and connect with other plant enthusiasts. Boosts confidence and engagement.



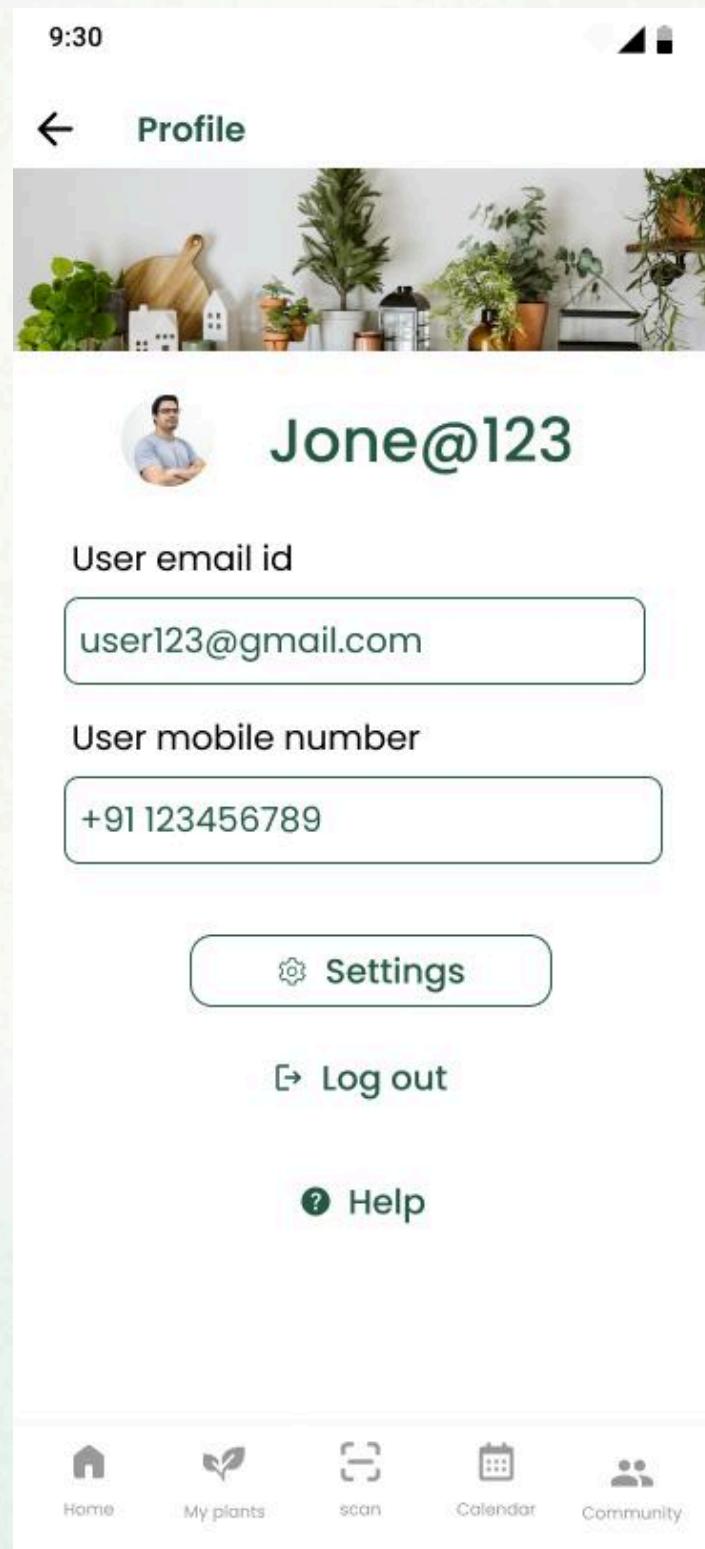
User profile

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Design System Summary

Color Tokens

PlantPal uses a calm, nature-inspired color palette with semantic naming conventions for clarity and consistency

brand	
⌚ primary	█ ...ours/Green/green-500
⌚ secondary	█ colours/Green/green-50
bg	
⌚ base	█ colours/white/white
⌚ section	█ ...lours/Green/green-100
⌚ disabled	█ colours/grey/grey-700
text	
⌚ primary	█ colours/back/white
⌚ secondary	█ colours/Green/green-50
⌚ disabled	█ colours/grey/grey-600
stroke	
⌚ primary	█ FFFFFF
⌚ secondary	█ FFFFFF

Feedback	
⌚ success	█ colours/success/white
⌚ error	█ colours/error/white
⌚ warning	█ colours/warning/white
icons	
⌚ primary	█ ...ours/Green/green-500
⌚ secondary	█ colours/Green/green-50
⌚ disabled	█ colours/grey/grey-700

Typography

The type system features Poppins for headings and Inter for body content to maintain a friendly and readable tone across the app

font / SIZE	
lg	2s/#32
H1	2s/#24
H2	2s/#18
BODY	2s/#14
caption	2s/#12
LABLE	2s/#9

font / Font WeightFont	
Display Large	SemiBold
Headline (H1)	Bold
Subheading (H2- H3)	Medium
Body Text	Regular
Small Text	Regular
Caption	Medium

font / Font WeightFont / Button TEXT	
TYPE 1	MEDIUM
TYPE 2	Bold

font / FONT FACE	
Primary Font	Poppins
Secondary Font	Open Sans

Components

Components

The interface displays several components:

- A top navigation bar with a clock icon showing 9:30.
- A central card with a title "Never miss a care routine, add your own custom tasks and let PlantPal remind you." and a "Add TASK" button.
- A "Core Calendar" section with a back arrow.
- A grid of buttons of different sizes and colors (green, grey, blue).
- A vertical sidebar with icons for Home, My plants, Scan, Calendar, and Community.
- A "enter label value" input field.
- A "Name of plant" input field with a purple gradient icon.
- A "choose type" dropdown menu.
- A "choose time" dropdown menu with options "In door" and "Out door".
- A "add plant" button with a plus sign.
- A calendar for July 2025 showing dates from 1 to 31.
- A sidebar with icons for Home, My plants, Scan, Calendar, and Community.

Final Reflection – Role of AI in My UX Design Process

In this project, I used AI not as a replacement for design thinking, but as a powerful partner that accelerated research, ideation, and UI exploration. From generating realistic user personas and journey maps with Qoqo AI to shaping my visual direction and layout prompts using ChatGPT and DALL·E, each tool contributed meaningfully to different stages of my design process.

Where AI Helped Most:

- Clarifying goals and user needs during research
- Generating feature ideas based on personas
- Suggesting visual styles and structure for UI components
- Saving time with structured prompts for copywriting and tokens

Limitations I Observed:

- Some visual outputs lacked accessibility or balance
- AI-generated text was occasionally generic or too formal
- Journey mapping in Qoqo sometimes needed refinement

Overall, AI significantly enhanced my workflow by offering quick support, inspiration, and structure. However, my role as a designer remained central — making judgment calls, refining outputs, and ensuring the final product was user-focused, accessible, and cohesive.

Figma link

Click here

<https://www.figma.com/design/u6lpchUtOpLZPMfDh140GU/Course-6-project?node-id=1-2&t=8F3gwILUB6EY7F9M-1>

Thank you