

SipSip

Project Vision Document

Version 1.0

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Revision History

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Document Approval List

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1 Introduction

The SipSip Project Vision Document provides a clear overview of the planned development process, core features, and scope of the mobile application. Its purpose is to define the problem the app aims to solve, the requirements involved for development, and outlines potential constraints that should be brought to attention. Stakeholders and users are described and used as a baseline of necessary features, as well as expectations to be seen in the final deliverable.

1.1 Purpose

The purpose of the Project Vision Document is to clearly establish the future of the SipSip plant care mobile application. This document is needed to define the direction in terms of scope and objectives that the development team will follow for a successful product. By capturing the business opportunity, problem statement, stakeholder needs, system features, project boundaries, and conducting a SWOT analysis, the document can be referenced during future agile sprints as well as during the product development process to see how the project has progressed over time.

1.2 Scope

The scope of the SipSip project is to design a functioning mobile app that simplifies plant care and addresses common problems faced by casual plant owners, gardeners, students, and professionals.

1.2.1 In Scope

- Development of an Android application
- Core features: plant management, reminders, plant-specific tips, and a user-friendly interface
- Offline functionality for reminders and core app features
- Local data storage and optional user sign-up

1.2.2 Out of Scope

- Development of an IOS, web, or desktop version of SipSip
- Advanced AI diagnostics that understand plant health, patterns, and can offer personalized advice through a chatbot
- Paid subscription model for advanced features
- Integration with potential business partner products

1.3 Definitions, Acronyms, and Abbreviations

Term	Explanation
SipSip	The name of the plant care mobile app we will be producing and planning for.
MVP	Minimum viable product - A finished product with all its core features functioning.
CRUD	Create, read, update, & delete - The basic operations for any list-related function in an application.

1.4 References

Reference File Name	Version	Description
SipSip - Project Summary - V(1.0)	1.0	The original project summary for the SipSip plant care mobile app.
SipSip - User Stories - V(1.0)	1.0	A list of all user stories that contribute to the app's required feature list.
SipSip - User Personas - V(1.0)	1.0	A list of users the SipSip mobile app is directed and catered towards, defining the overall feeling of the application.

Name	Link
Top 5 Best Plant Care Apps To Keep Your Plant Babies Alive	https://flowersacrossbrisbane.com.au/blog/top-5-best-plant-care-apps-to-keep-your-plant-babies-alive-clnpgfbir7439923n77rzi9x1e/
Planta - Keep your plants alive	https://getplanta.com
Google Play's New Target API Level Requirement	https://developer.android.com/google/play/requirements/target-sdk

2 Positioning

2.1 Business Opportunity

SipSip is addressing a growing demand for personalized lifestyle apps that help manage day-to-day life. Its opportunity lies in offering a streamlined, friendly, and accessible system that assists people with building consistency in plant care while remaining in the background, simply supporting users with playful reminders and being non-intrusive with their routine.

2.2 Problem Statement

The Problem of..	Plant care and maintenance for individuals with busy schedules or limited plant knowledge.
Affects..	Plant owners, such as students, working professionals, or families who want to care for a plant or garden but struggle with time management, consistency, or expertise.
The impact of which is..	Plants often become neglected, withering away, and eventually die due to over- or underwatering, excessive or insufficient sunlight, inadequate soil quality, or disease. This leads to wasted money, reduced motivation for future plant care, decreased plant benefits in the household, and unnecessary frustration for plant owners.
A successful solution would be..	A system that takes into account individual plant needs, provides reminders, personalized watering schedules, recommendations to improve plant health, and a long-term vision for plant growth. A successful plant care application would save the user money, manage their time, take care of research, keep plant care management interactive and fun, and leave the user satisfied with their vibrant home.

Table 1 Problem Statement

2.3 Product Position Statement

For	Avid home gardeners, students, and middle-income homeowners
Who	Struggle with remembering when and how to properly care for their home plants or garden
The SipSip app	Is a smart plant care mobile application assistant and planner
That	Provides personalized watering schedules based on individual plant needs and local weather while also providing recommendations on proper environment settings (soil, sunlight, fertilizer, mulch, etc.). SipSip provides real-time updates on household schedules, playfully reminds users of important plant care tasks, and manages their household plant(s) or garden in the background, leaving the user with less effort and more confidence in their home.
Unlike	Planta - Plant care mobile app
Our product	• SipSip provides a playful and almost gamification twist on plant care, while Planta keeps a serious and informative tone. • SipSip integrates itself with the user's or household calendar, making plant care a shared task between everyone and working around busy schedules. • SipSip focuses on plant care for beginners and uses simple guidance, making sure the user never feels overwhelmed with tasks or features like Planta. • SipSip provides all of its features for free and without a signup process, removing barriers and making it more approachable for students or people just trying it out.

Table 2 Product Position Statement

2.4 SWOT Analysis

Strengths	Weaknesses
Reliable care schedules and plant health tracking	No Native desktop or web version of the app
Push notification and in-app messaging capability	Limited multilingual support may restrict global user growth
No monetary barrier to entry	Limited support for rare or exotic plants
Opportunities	Threats
Potential future Integration with smart home ecosystems (e.g., Alexa, Google Home)	Rising user expectations for AI and automation in apps
Potential partnerships with nurseries or garden centers	Dependency on third-party APIs for weather and plant data
Potential Expansion into educational markets (schools, community programs)	Potential seasonal drop-off in user engagement

3 Stakeholder and User Descriptions

3.1 Stakeholder Summary

Stakeholder Name	Represents	Role
Project Team (Developers)	The developers of the SipSip mobile app	Responsible for planning, designing, coding, testing, and delivering the final product
End Users (Plant Owners)	People who want simple plant care assistance	Provide the needs, wants, and problems that SipSip is solving
Potential Business Partners	Nueries or plant retailers	Potential beneficiary from partnerships or integrations with SipSip

Table 3 Stakeholder Summary

3.2 User Summary

User Name	Description	Responsibilities	Stakeholder
Casual Plant Owner	Beginner or busy individual who owns a few houseplants / outdoor plants and needs plant care guidance	- Creates unique, homey, plant profiles - Assigns their plant(s) to a household with other users - Responds to reminders - Follows basic plant care advice	End User

User Name	Description	Responsibilities	Stakeholder
Enthusiastic Gardener	Someone who enjoys taking care of many plants, including edible ones, but needs a system to keep track of them all and take care of their specific requirements	• Creates collections of methodical plant profiles • Regularly follows their plant care schedule • Reads in-depth care guides on specific plants	End User
Student / Working Adult	Someone who enjoys having some greenery in their home or workspace but struggles with keeping their plant(s) alive and healthy due to a busy schedule	• Assigns a few personal / communal plants to their household to share with their roommates or co-workers • Heavily relies on plant care reminders	End User

Table 4 User Summary

4 Stakeholder Requirements

ID	Requirement	Stakeholder
R1	The system must allow users to add and track multiple plant profiles with individual care reminders.	End Users
R2	The app must send timely, non-intrusive notifications that keep users engaged and informed.	End Users
R3	The app must provide plant-specific care tips (watering, fertilizing, repotting, seasonal advice).	End Users
R4	The system must be designed to be simple, intuitive, and beginner-friendly.	End Users
R5	The app must have offline functionality and not rely on constant internet access.	End Users
R6	The app must be optimized and compatible with most Android devices, while still meeting Google Play's target version requirements.	Project Team
R7	The app must be developed and tested within the project timeline.	Project Team
R8	The system must be easily expandable and integratable with potential partnership products.	Potential Business Partners

Table 5 Stakeholder Requirements

5 System Features

ID	Feature	Stakeholder Requirement ID
F1	Plant management system that allows users to add, track, and edit multiple plants.	R1, R4
F2	Reminder and notification system that sends timely, non-intrusive, playful alerts.	R2
F3	Plant specific care tips (watering, fertilizing, repotting, seasonal advice).	R3
F4	Simple and intuitive interface tailored for beginners.	R4
F5	Offline functionality so users can access plant data and reminders without internet access.	R5
F6	Optimized, scalable system that runs smoothly on most Android devices and can support future integrations (weather data API, partnerships)	R6, R7, R8

Table 6 System Features

6 Assumptions

#	Assumption	Referenced Document Section
1	A primary user is casual plant owners, like families / stay-at-home parents. Other users include gardeners who may use the app for edible plants or students / working adults with busy schedules.	2.3 Product Position Statement, 3.2 User Summary
2	Users will enter basic plant information and respond to reminders at least occasionally for the app to be useful in their routine.	5.0 System Features
3	Household sharing is in the scope of the user's environment, applicable to a family home, roommates, or even co-workers in a professional environment.	2.3 Product Position Statement, 3.2 User Summary
4	The app experience will remain in the background after initial setup and routinely remind users of their plant's needs. Users will be prompted to mark plants as being taken care of shortly after a notification.	2.1 Business Opportunity, 5.0 System Features
5	Minimum viable product features focus on plant management, reminders, tips, and a beginner-friendly UI.	5.0 System Features
6	The app will function offline for core tasks, while a network connection is only required for optional features.	4.0 Stakeholder Requirements, 5.0 System Features
7	Currently only planned for Android compatibility. For Google Play deployment, the target API must be at least Android 15 (API level 35).	1.4 References, 4.0 Stakeholder Requirements, 5.0 System Features
8	Users can expect most communication with the app to be through push notifications.	2.4 SWOT Analysis
9	All core features are freely available and not locked behind a paywall like alternative apps.	2.3 Product Position Statement
10	A weather API will be included to offer optional recommendations for outdoor plants.	2.3 Product Position Statement,

#	Assumption	Referenced Document Section
		2.4 SWOT Analysis, 5.0 System Features
11	Future partnerships will be possible through a carefully designed and integration-friendly development process.	3.1 Stakeholder Summary, 4.0 Stakeholder Requirements, 5.0 System Features
12	Documentation and code quality will be sufficient for an MVP.	4.0 Stakeholder Requirements

7 Constraints

#	Constraint	Description
1	Platform Compatibility	The app will only be developed for Android devices. No iOS, desktop, or web version will be developed or planned for at this time.
2	Timeline	Development and testing must be completed with the allotted timeframe of two semesters.
3	Technical Requirements	The app must comply with Google Play's target SDK requirements while still being compatible with older versions like Android 7.1 (Nougat).
4	Limited Budget	With no funding allocated for this project, all third-party services and API's must either be free or have a low cost to keep this project viable.
5	Data Collection	User accounts will be optional, and most data will be stored locally on the user's device.
6	Dependencies	External API's like local weather data or plant databases will be used for optional or future enhancement, meaning the SipSip app will rely on them.