

Sprint Four Plan - GrowMyGarden

Team: Chris Fang, Justin Valdez, Gavin Leach, Nuha Fakrudeen

Sprint Completion Date: December 2, 2025

Revision Number: 1.0

Revision Date: November 18, 2025

Goal: Finalize and polish the PlantBook feature, allowing users to view a photo-based collection of all plant species they have owned. This sprint focuses on completing all remaining functionality, ensuring clean and maintainable code, fixing any outstanding bugs, and delivering a smooth, reliable user experience across the app.

Sprint 4:

1. As a user, I want to view my collection of unique plants ("PlantBook").
 - a. ~~Build the PlantBook grid/list display (3 hours)~~
 - b. ~~Design and build the empty state screen (2 hours)~~
 - c. ~~Add image loading states and placeholders (1 hour)~~
 - i. ~~Update Plant Database to include needed information (3 hours)~~

Total Hours: 9 hours

Continued from Sprint 3:

2. As a user, I want to be able to look up a plant and get the growing information on it.
 - a. ~~Design the plant lookup page layout (2 hours)~~
 - b. ~~Create the search bar and results section (2 hours)~~
 - c. ~~Build display components for plant info (5 hours)~~
 - d. ~~Style and make the page responsive (3 hours)~~
 - e. Test the layout and user flow (2 hours)
 - f. Remote backend endpoints to fetch plant information (2 hours)
 - g. Keyword-based searching (5 Hours)
 - h. Local caching for frequently visited plants & plants in plant list (2 hours)

Total Hours: 23 hours

3. As a user, I want care information to be automatically generated based on my plant type, so I don't care for it wrong, and to create reminders faster

- a. Task 3.1.f (Remote backend endpoints to fetch plant information) (2 hours)
- b. Task 3.1.h (Local caching for frequently visited plants & plants in plant list) (2 hours)
- c. Use Plant information to generate suggested watering and care cycles

Total Hours: 8 hours

Team Roles:

- Nuha Fakrudeen: Product Owner, Frontend
- Chris Fang: Scrum Master, Frontend & Backend developer
- Gavin Leach: Backend Developer
- Justin Valdez: Backend Developer

Initial Task Assignments:

- Nuha:
 - Build the PlantBook grid/list display
 - Design and build the empty-state screen
 - Add image loading states and placeholders
 - Add filtering or sorting options (date added, species name)
- Chris:
 - Continue on integration for Plant information and search database
- Justin:
 - Fetching plant information from API
 - Key Word Based Searching
- Gavin:
 - Add connection to cloud database
 - * Update Database Schema
 - User image sync
 - Plantbook Viewmodel

Initial Burnup Chart:

Date - November 19th, 2025 - December 1st, 2025



Initial Scrum Board:

The scrum board has three columns: TO DO, IN PROGRESS, and DONE. The TO DO column contains two items: 'I want to have a collection of unique plants' (RELEASE 3, P3, GMG-45) and 'As a user I want care information to be automatically generated based on my plant type so I don't care for it wrong and to create reminders faster' (RELEASE 2, P2, GMG-23). The IN PROGRESS column contains two items: 'As a user I want to be able to create an account so I can manage my plants from any device' (RELEASE 1, P1, GMG-33) and 'I want to be able to look up a plant and get the growing information on it.' (RELEASE 2, P2, GMG-4). The DONE column contains one item: '+ Create'.

I want to have a collection of unique plants



Key details

Subtasks

Add subtask

Linked work items

Add linked work item

As a user I want care information to be automatically generated based on my plant type so I don't care for it wrong and to create reminders faster



Key details

Subtasks

Add subtask

Linked work items

Add linked work item

As a user I want to be able to create an account so I can manage my plants from any device



Key details

Subtasks

Work	Pri...	As...	Status
GMG-38 Create Login Page	M	W	DONE
GMG-39 Create User Login Server	M	GL	DONE
GMG-40 Sync Local User Plant Database with Remote Databases	M	GL	IN PROGRESS
GMG-42 Sync Images to User Accounts	M	GL	IN PROGRESS

50% Done

Linked work items



blocks

GMG-42 Sync Images to User Accounts	IN PROGRESS	GL	=
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I want to be able to look up a plant and get the growing information on it.



> Key details

Subtasks

Work	Pri...	As...	Status
GMG-30 Remote backend endpoints to fetch plant information	M	W	IN PROGRESS
GMG-31 Keyword based searching	M	W	IN PROGRESS
GMG-32 Local caching for frequently visited plants & plants in plant list	M	O	TO DO

0% Done

Linked work items

Add linked work item

Scrum Times:

- Saturdays anywhere around 12PM - 6PM
- Mondays between 9AM - 10:30AM
- Wednesdays between 9AM - 10:30AM (W/ TA)
- Fridays between 9AM - 10:30AM