Sprint Three Plan - GrowMyGarden

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

Sprint Completion Date: November 18, 2025

Revision Number: 1.0

Revision Date: November 5, 2025

Goal: Complete and integrate the plant lookup feature, allowing users to search for plants and view the growing and care information. Finalize core user functionalities started in the previous sprints (1 & 2), including login authentication, plant list management, and reminder setup. By the end of this print, users should be able to log in, access personalized data, look up plants, and receive care reminders for their plants.

Sprint 3:

1. 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

2. 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

Continued from Sprint 2:

1. As a user, I want to be able to login to view my own personal information

     a. ~~Design login screen UI (4 hours)~~

     b. ~~Design logout UI (2 hours)~~

     c. Design the profile page (1 hour)

     d. Set up an authentication system (6 hours)

        i. Connect login system to remote user database (2 hours)

        ii. Implement user session management and logout feature (2 hours)

        iii. Test login functionality and data retrieval (2 hours)

Total Hours: 19 hours

2. As a user, I want to take photos of my plants to better organize my plants

     a. ~~Create Local Image Store (2.5 hours)~~

     b. Sync Images to User Accounts (3 hours) - Blocked by User Story 1

     c. ~~Create Image Display w/ Plant on UI (2 hours)~~

     d. ~~Get User File Permissions (1 hour~~)

Total Hours: 3 hours

Continued from Sprint 1:

3. As a user, I want to create a list of my existing plants so that I can organize them in one place.

     a. ~~Create UI for seeing plant list (2 hours)~~

     b. ~~Create UI for adding plants to list (2 hours)~~

     c. ~~Add backend implementation for persistence (1 hour)~~

     d. Integrate Backend & Frontend Data (~~2 Hours~~ 1 hour)

Total Hours: 3

4. As a user, I want a reminder of when to water/change soil/trim my plants so that they don't die

     a. ~~Create UI for adding care reminders for plants (3 hours)~~

     b. ~~Create UI for marking off reminders when completed (2 hours)~~

     c. Implement notification system (3 hours)

     d. Create backend to persistently store current reminder tasks (Optional 1.5 hours)

     e. Test reminder creation (1 hour)

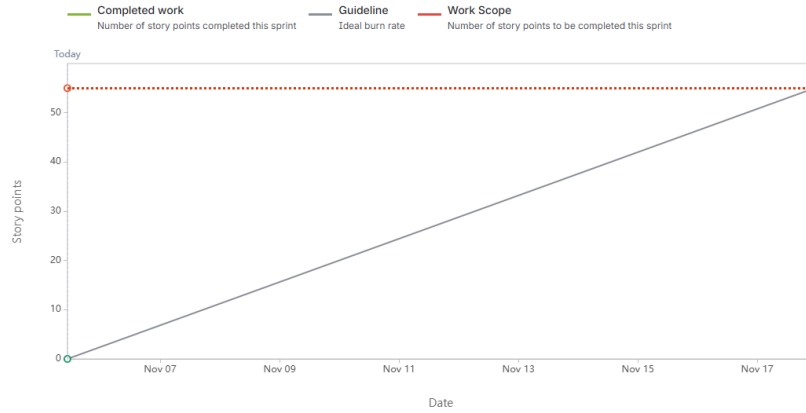**Total Hours:** 12.5

Team Roles:

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

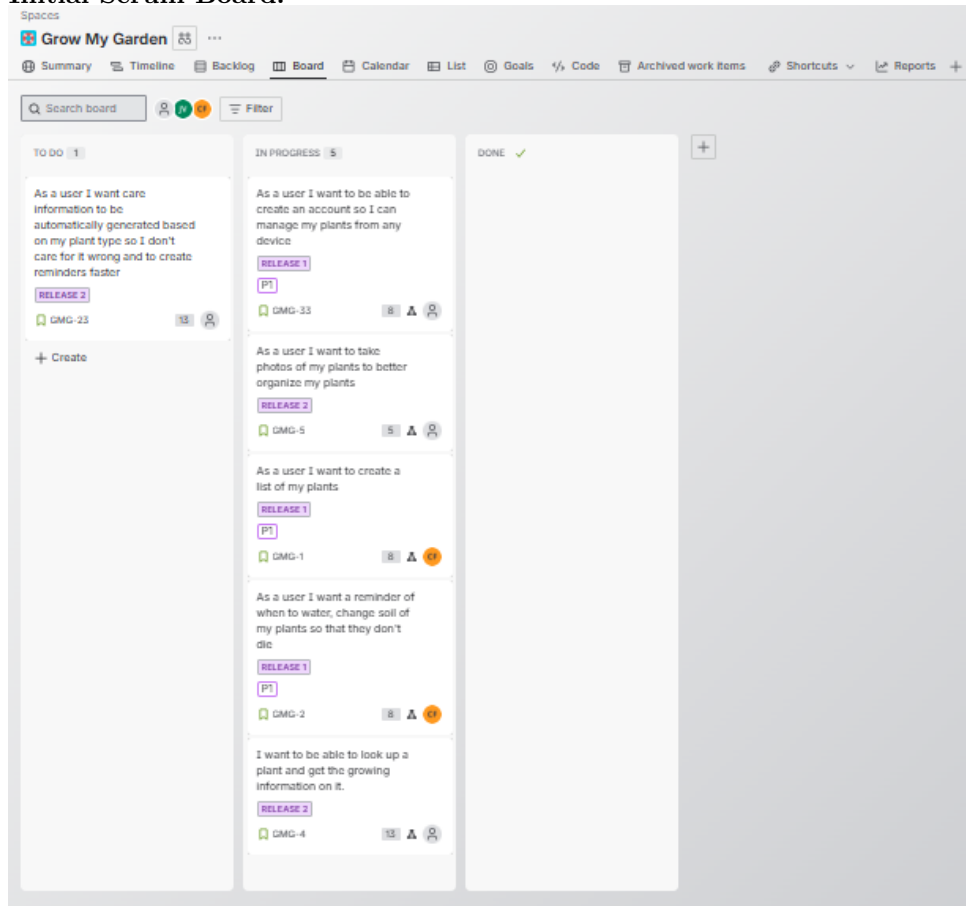**Initial Task Assignments:**

- Nuha:
    - Design the plant lookup page layout (2 hours)
    - Create the search bar and results section (2 hours)
    - Test the frontend
    - Design the profile page (1 hour)
    - Help with integration of backend into frontend
- Chris:
    - Complete integration between backend and frontend
    - Optimize code for better efficiency
    - Document everything for ease of access
    - images are gonna be stored on backend (not frontend) -> so change that
- Justin:
    - Finish up the notification so that it can be integrated with the front end
    - Help Gavin with some tasks
    - Clean up some code
- Gavin:
    - Set up an authentication system (6 hours)
        * Connect login system to remote user database (2 hours)
        * Implement user session management and logout feature (2 hours)
        * Test login functionality and data retrieval (2 hours)
    - Sync Images to User Accounts (3 hours) - Blocked by User Story 1
    - Remote backend endpoints to fetch plant information

Initial Burnup Chart:

Date - November 5th, 2025 - November 17th, 2025

▬ Completed work	▬ Guideline	▬ Work Scope
Number of story points completed this sprint	Ideal burn rate	Number of story points to be completed this sprint

Initial Scrum Board:

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**   ⋯ ⚙ +

0% Done

Work		Pri...	As...	Status
⧉ GMG-38	Create Login Page	= M	N r	IN PROGRESS ⌄
⧉ GMG-39	Create User Login Server	= M	GL C	TO DO ⌄
⧉ GMG-40	Sync Local User Plant Database with Remote Databases	= M	GL C	TO DO ⌄
⧉ GMG-42	Sync Images to User Accounts	= M	GL C	TO DO ⌄

⌄ **Linked work items**   +

blocks

⧉ GMG-42	Sync Images to User Accounts	TO DO ⌄	GL	=

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As a user I want to take photos of my plants to better organize my plants

[+] [⚙]

› **Key details**

⌄ **Subtasks**   ··· ⇅ +

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Work	Priority	Assig...	Status
⊓ ~~GMG-41~~ Create Local Image Store	= M...	GL G...	DONE ⌄
⊓ ~~GMG-43~~ Create Image Display w/ Plant on UI	= M...	N n...	DONE ⌄
⊓ ~~GMG-44~~ Get User File Permissions	= M...	👤 U...	DONE ⌄

⌄ **Linked work items**   +

is blocked by

⊓ GMG-46 Integrate Frontend & Backend Data		IN PROGRESS ⌄	CF	=

relates to

⊓ ~~GMG-26~~ Create Database to Store Plants Locally		DONE ⌄	GL	=

As a user I want to create a list of my plants

[+] [⚙]

› **Key details**

⌄ **Subtasks**   ··· ⇅ +

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Work	Priority	Assignee	Status
⊓ ~~GMG-24~~ Create UI for Seeing Plant List	= Medium	N nfakrude	DONE ⌄
⊓ ~~GMG-25~~ UI for adding plants to the list	= Medium	CF Chris Fang	DONE ⌄
⊓ ~~GMG-26~~ Create Database to Store Plants Locally	= Medium	GL Gavin Leach	DONE ⌄
⊓ GMG-46 Integrate Frontend & Backend Data	= Medium	CF Chris Fang	IN PROGRESS ⌄

Linked work items

Add linked work item

As a user I want a reminder of when to water, change soil of my plants so that they don't die

[+] [◎]

> Key details

⌄ **Subtasks**   ··· ⇅ +

33% Done

Work	Prior...	Assi...	Status
⊟ ~~GMG-27~~ UI for adding care reminders for plants	= M...	🔵 n..	DONE ⌄
⊟ GMG-28 Backend to interact with phone reminder/scheduler	= M...	🟢 J..	IN PROGRESS ⌄
⊟ GMG-29 Backend to persistently store current reminder tasks	= M...	🔵 G..	TO DO ⌄

⌄ **Linked work items**   +

is blocked by

⊟ GMG-46 Integrate Frontend & Backend Data		IN PROGRESS ⌄	🟠 CF	=

relates to

⊟ ~~GMG-26~~ Create Database to Store Plants Locally		DONE ⌄	🔵 GL	=

I want to be able to look up a plant and get the growing information on it.

[+] [◎]

> Key details

⌄ **Subtasks**   ··· ⇅ +

0% Done

Work	Prior...	Assi...	Status
⊟ GMG-30 Remote backend endpoints to fetch plant information	= M...	👤 U.	TO DO ⌄
⊟ GMG-31 Keyword based searching	= M...	👤 U.	TO DO ⌄
⊟ GMG-32 Local caching for frequently visited plants & plants in plant list	= M...	👤 U.	TO DO ⌄

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

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