Use Cases

for

Planit

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version
Yong Tai	29/08/21		1.0

Use Case List

Primary Actor	Use Cases
User	Register
User	Login
User	View Plant
User	Add Plant
User	Update Plant
User	Delete Plant
User	Complete Task
User	Add Special Instructions
User	Search Queries / Communities
Admin	Delete User
Admin	Modify Warnings
Time	Display Routine Tasks
Time	Display Warning Tasks

Use Case Template

Use Case ID:	#1		
Use Case Name:	Register		
Created By:	Daniel	Last Updated By:	Daniel
Date Created:	29/08/21	Date Last Updated:	29/08/21

Actors:	User
Description:	User registers for an account.
Trigger:	
Preconditions:	User accesses the registration page.
Postconditions:	User is able to register for an account successfully.
Normal Flow:	1. User clicks on the register button. 2. User fills in his/her particulars. 3. User clicks on the register button when he has filled in his particulars. 4. Account successfully created.

Alternative Flows:	AF-S3: If input username is not validated successfully
	    1. App will display the following message:
	        a. Username cannot be empty
	        b. Username is already taken
	        c. (etc, depends on what else is required)
	    2. Return to step 2.
	
	AF-S3: If input password is not validated successfully
	    1. App will display the following message:
	        a. Password cannot be empty
	        b. Password and retype password does not match
	        c. (etc, depends on what else is required)
	    2. Return to step 2.

Exceptions:	
Includes:	-
Priority:	Medium
Frequency of Use:	Once per user
Business Rules:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	#2		
Use Case Name:	Login		
Created By:	Daniel	Last Updated By:	Daniel
Date Created:	29/08/21	Date Last Updated:	29/08/21

Actors:	User
Description:	User can login to an existing account.
Trigger:	
Preconditions:	User must have an existing account in the application.
Postconditions:	User logins and is redirected to the main page.
Normal Flow:	1. User clicks on the login button. 2. User fills in his/her particulars. 3. User clicks on the login button when he has filled in his particulars. 4. User is successfully logged in.

Alternative Flows:	AF-S3: If input username is invalid
	  1. App will display the following message:
	    a. Username does not exist
	    b. (etc, depends on what else is required)
	  2. Return to step 2.
	
	AF-S3: If input password is not validated successfully
	  1. App will display the following message:
	    a. Password cannot be empty
	    b. Incorrect password
	    c. (etc, depends on what else is required)
	  2. Return to step 2.

Exceptions:	
Includes:	
Priority:	Medium
Frequency of Use:	
Business Rules:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	#3		
Use Case Name:	View Plant		
Created By:	Daniel	Last Updated By:	Daniel
Date Created:	29/08/21	Date Last Updated:	29/08/21

Actors:	User
Description:	User can access and view information related to his/her plant's growth.
Trigger:	
Preconditions:	User accesses the view plant page.
Postconditions:	User successfully returns to the main menu.
Normal Flow:	1. User selects the drop-down list which is named 'View plants'. 2. The app displays the names of plants added by the user. 3. User clicks on a plant name. 4. The app displays the following options: Display progress chart, Display routine tasks, Display predicted growth. 5. User selects 'Display progress chart'. 6. The app displays a chart on the user's screen. The chart displays the plant's growth for the duration when the plant has been added until the latest date. 7. User clicks on the 'Done' button. 8. The app redirects the user to the view plant page. 9. User clicks on the 'Back to main menu' button. 10. The app redirects the user to the main menu.
Alternative Flows:	AF-S1: User has not added any plants 1. The app displays the text 'No plants have been added yet. Please add new plants in the Add Plants section.'. 2. Return to step 9. AF-S5: User selects 'Display routine tasks' 1. The app displays a task checklist for the specific plant. 2. User ticks on the tasks completed. 3. User clicks on the 'Done' button. 4. The app updates the routine task information. 5. Return to step 8. AF-S5: User selects 'Display predicted growth' 1. The app displays images of how the plant should look like, corresponding to the number of weeks of the plant's growth. 2. User clicks on the 'Done' button. 3. Return to step 8.

	AF-S9: User scrolls down to view warning section 1. The app displays a name list of plants that do not grow as expected. 2. Return to step 9.
Exceptions:	
Includes:	
Priority:	Medium
Frequency of Use:	
Business Rules:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	#4		
Use Case Name:	Add Plant		
Created By:	Daniel	Last Updated By:	Daniel
Date Created:	29/08/2021	Date Last Updated:	29/08/2021

Actors:	User
Description:	User adds a new plant.
Trigger:	
Preconditions:	
Postconditions:	User is displayed a notification that the plant is successfully added.
Normal Flow:	1. User clicks on add new plant button from the navigation bar. 2. User is redirected to the add new plant page. 3. User enters details of his plant. 4. User clicks on the add button. 5. Plant is added successfully.
Alternative Flows:	
Exceptions:	
Includes:	
Priority:	Medium
Frequency of Use:	
Business Rules:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	#5		
Use Case Name:	Update Plant		
Created By:	Koushani	Last Updated By:	Koushani
Date Created:	29/08/21	Date Last Updated:	29/08/21

Actors:	User
Description:	User updates an existing plant.
Trigger:	
Preconditions:	The plant should exist in the application.
Postconditions:	User is displayed a notification that the plant is successfully updated.
Normal Flow:	1. User clicks on the update button next to an existing plant. 2. User is redirected to the update plant page. 3. User changes the details of the plant. 4. User clicks on the update button. 5. Plant is updated successfully.
Alternative Flows:	
Exceptions:	
Includes:	
Priority:	Medium
Frequency of Use:	
Business Rules:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	#6		
Use Case Name:	Delete Plant		
Created By:	Koushani	Last Updated By:	Koushani
Date Created:	29/08/21	Date Last Updated:	29/08/21

Actors:	User
Description:	User deletes an existing plant.
Trigger:	
Preconditions:	The plant should exist in the application.
Postconditions:	User is displayed a notification stating that the plant is successfully deleted.
Normal Flow:	1. User clicks on the delete plant button beside any plant. 2. User is redirected to the delete plant page. 3. User clicks on the delete button to confirm deletion. 4. Plant is successfully deleted.
Alternative Flows:	
Exceptions:	
Includes:	
Priority:	Medium
Frequency of Use:	
Business Rules:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	#7		
Use Case Name:	Complete Task		
Created By:	Koushani	Last Updated By:	Koushani
Date Created:	29/08/21	Date Last Updated:	29/08/21

Actors:	User
Description:	User can mark his/her tasks as completed / fixed.
Trigger:	
Preconditions:	There are tasks that are still outstanding.
Postconditions:	User is displayed a notification that the task has been completed.
Normal Flow:	1. User clicks on the complete task button. 2. The app shows a list of tasks that are pending. 3. User clicks on the task they wish to do. 4. Once done, the app displays a message indicating the successful completion of the task.
Alternative Flows:	
Exceptions:	
Includes:	
Priority:	Medium
Frequency of Use:	
Business Rules:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	#8		
Use Case Name:	Add Special Instructions		
Created By:	Koushani	Last Updated By:	Koushani
Date Created:	29/08/21	Date Last Updated:	29/08/21

Actors:	User
Description:	The application can provide special instructions to users depending on the nature of their plants.
Trigger:	
Preconditions:	Users have existing plants with common problems/conditions that can be improved.
Postconditions:	Users are provided with necessary actions that can help their plants grow better.
Normal Flow:	1. User clicks on either the add plant or update plant button. 2. User fills in the new/existing plant's information. 3. Based on the information entered by the user, the application provides special instructions specific to each kind of plant and its growing conditions.
Alternative Flows:	
Exceptions:	
Includes:	
Priority:	Medium
Frequency of Use:	
Business Rules:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	#9		
Use Case Name:	Search Queries / Communities		
Created By:	Yong Tai	Last Updated By:	Yong Tai
Date Created:	29/08/21	Date Last Updated:	29/08/21

Actors:	User
Description:	User enters a search for help from communities regarding the queries that they have for their plants.
Trigger:	
Preconditions:	
Postconditions:	
Normal Flow:	1. User clicks on the search bar. 2. User enters what they want to ask or know about. 3. User is shown the search results. 4. User is redirected to an external website to help them with their queries.
Alternative Flows:	
Exceptions:	
Includes:	
Priority:	Low
Frequency of Use:	
Business Rules:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	#10		
Use Case Name:	Delete User		
Created By:	Yong Tai	Last Updated By:	Yong Tai
Date Created:	29/08/21	Date Last Updated:	29/08/21

Actors:	Admin
Description:	Admin deletes a user from the system.
Trigger:	
Preconditions:	User must exist in the system.
Postconditions:	User is deleted from the system successfully.
Normal Flow:	1. Admin inputs a username in the user search bar. 2. Admin clicks 'Search user'. 3. App displays text 'Confirm delete user?' 4. Admin selects 'Yes'. 5. App displays that user is successfully deleted from the system.

Alternative Flows:	AF-S2: Username does not exist
	    1. App will display the following message: Invalid username.
	    2. Return to step 1.
	
	AF-S3: Admin selects 'No'
	    1. User is not deleted from the system.

Exceptions:	
Includes:	
Priority:	Medium
Frequency of Use:	
Business Rules:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	#11		
Use Case Name:	Modify Warnings		
Created By:	Yong Tai	Last Updated By:	Yong Tai
Date Created:	29/08/21	Date Last Updated:	30/08/21

Actors:	Admin
Description:	Admin modifies the warning task messages sent to users.
Trigger:	
Preconditions:	The task message must exist in the system.
Postconditions:	The task message is modified successfully.
Normal Flow:	1. Admin selects the task message to be modified. 2. Admin modifies the text description of the message. 3. Admin clicks on 'Done'. 4. App displays 'Task message updated'.
Alternative Flows:	AF-S3: Admin clicks on 'Cancel'. 1. Task message is not updated.
Exceptions:	
Includes:	
Priority:	Medium
Frequency of Use:	
Business Rules:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	#12		
Use Case Name:	Display Routine Tasks		
Created By:	Yong Tai	Last Updated By:	Yong Tai
Date Created:	29/08/21	Date Last Updated:	29/08/21

Actors:	Time
Description:	System displays daily tasks for each plant.
Trigger:	
Preconditions:	There are routine tasks that have not been viewed by the user yet.
Postconditions:	
Normal Flow:	1. User clicks on the plant's name. 2. System displays daily tasks for the plant. 3. System resets tasks for each plant at 12am.
Alternative Flows:	AF-S3: Tasks that has not been completed 1. Tasks will be added and displayed as a warning task by the system.
Exceptions:	
Includes:	
Priority:	Medium
Frequency of Use:	
Business Rules:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	#13		
Use Case Name:	Display Warning Tasks		
Created By:	Yong Tai	Last Updated By:	Yong Tai
Date Created:	29/08/21	Date Last Updated:	29/08/21

Actors:	Time
Description:	System displays warning tasks for each plant.
Trigger:	
Preconditions:	There are warning tasks to be displayed.
Postconditions:	
Normal Flow:	5. User clicks on the plant's name. 6. System displays warning tasks for the plant.
Alternative Flows:	AF-S2: No warning tasks to be shown 1. The warning section for the plant will not be shown to the user.
Exceptions:	
Includes:	
Priority:	Medium
Frequency of Use:	
Business Rules:	
Special Requirements:	
Assumptions:	
Notes and Issues:	