

COM397

Systems Development

MVP 3 – Litter Smart

TEAM DAVID

ABDELHAKIM OUCHBOUK	B00794491
BIBEK THAPA	B00792128
DAVID FODOR	B00796885
PAMI KARKI	B00796002

1. Product backlog

Difficulty (1-5)

All users:

- Log in
 - Authentication 1
 - Forgot password option 2
- Log out 1
- Receive push notifications 2
- View map of litter spots 3

General users:

- Create account 1
 - Receive verification email 2
- Delete account 1
- Report litter
 - Upload photos, write description, set location 2
 - Offline capabilities 1
- Check progress on the reported litter 2
- Provide feedback 2
- View history of litter reports 2

Admins:

- Create admin account 1
- Create cleaner account 1
- Verify sightings 2
- See statistics on reporting dashboard 3
- Assign task to a specific cleaner 1
- Monitor the system
 - Access info of users 1
 - Access info of reported sightings 1
 - View list of cleaners with their availability and location 3
- Cancel a task 2

Cleaners:

- View list of tasks (sorted by urgency) 2
- Access a specific task (See pictures. Description, location) 1
- Set status (active or on break) 1
- Start task 1
- Pause task 1
- Complete task 1
- Reject task (with a reason) 1
- Reach out to admins 2
- Access fastest route 3
 - Updates in real-time 4

2. Sprint backlog

The following items have been chosen for the third sprint:

- Assign task to a specific cleaner
- Check progress on the reported litter
- Verify sightings
- View list of tasks (sorted by urgency)
- Start task/Pause task/Complete task

3. User stories

Title:

Assign task to a specific cleaner

Description:

As an **admin**, I want to **assign cleaning tasks to specific cleaners** so that **there is a cleaner liable for each litter spot**

Acceptance Criteria:

Scenario: Assign task to a specific cleaner

Given: There is an unassigned cleaning task displayed for the admin

When: The admin assigns it to a specific cleaner

Then: The cleaning task is shown to be assigned to that cleaner

Title:

Check progress on the reported litter

Description:

As a **user**, I want to **check the status of the report I have submitted** so that **I get a sort of feedback for my efforts**

Acceptance Criteria:

Scenario: Check progress on the reported litter

Given: The user has submitted a litter report

When: The user navigates to the Submissions page

Then: The submitted report is displayed there, along with its details and status

Title:

Verify sightings

Description:

As an **admin**, I want to **be able to verify or dismiss litter sightings which were reported by users** so that **the fake or duplicate reports get filtered out**

Acceptance Criteria:

Scenario: Verify sightings

Given: There is an unverified litter report displayed for the admin

When: The admin chooses to either verify or dismiss the report
Then: The status of the report changes accordingly

Title:

View list of tasks (sorted by urgency)

Description:

As a **cleaner**, I want to **view the list of tasks assigned to me sorted by urgency** so that **I know what to work on**

Acceptance Criteria:

Scenario: View list of tasks (sorted by urgency)

Given: A task or more tasks have been assigned to the cleaner by the admin

When: The cleaner navigates to the appropriate menu

Then: That particular cleaner's tasks get displayed for the cleaner in a list sorted by urgency

Title:

Start task/Pause task/Complete task

Description:

As a **cleaner**, I want to **be able to indicate the status of my task in the app** so that **the admins are aware of it**

Acceptance Criteria:

Scenario: Start task/Pause task/Complete task

Given: A task or more tasks have been assigned to the cleaner by the admin

When: The cleaner changes the status of their task in the app

Then: The task's status is shown to be changed accordingly

4. Technical task

Task name: Assign task to a specific cleaner

Task size: Small

Dependencies: Account creation, Login authentication, Reporting litter, View list of cleaners with their availability and location

Checklist:

- Display an unassigned cleaning task
- Provide the list of cleaners
- Acknowledge the selection of a cleaner to assign the task to

Task name: Check progress on the reported litter

Task size: Medium

Dependencies: Account creation, Login authentication, Reporting litter

Checklist:

- Display a litter report for the user who submitted it to see

Task name: Verify sightings

Task size: Medium

Dependencies: Account creation, Login authentication, Reporting litter, Access info of reported sightings

Checklist:

- Display a submitted litter report
- Display an option to either verify or dismiss it
- Acknowledge the choice of the admin

Change the status of that particular litter report submission

Task name: View list of tasks (sorted by urgency)

Task size: Small

Dependencies: Account creation, Login authentication, Reporting litter, View list of cleaners with their availability and location

Checklist:

- Display an interactable View tasks menu icon for the cleaner
- Retrieve the tasks that have been assigned for the cleaner
- Order these tasks by urgency

Display the results in a list for the cleaner

Task name: Start task/Pause task/Complete task

Task size: Medium

Dependencies: Account creation, Login authentication, Reporting litter, View list of cleaners with their availability and location, View list of tasks (sorted by urgency)

Checklist:

- Display an interactable Start, Pause and Complete buttons for the cleaner in the Tasks menu
- Acknowledge button press on each of the buttons
- Change the status of the task in the database
- Display the task with its new status

5. Test case

Test Scenario ID	Test Scenario Description	Pre-conditions		
Test_Litter_013	Assign task to a specific cleaner	The app is open and there is an unassigned cleaning task displayed for the admin		
Test Case ID	Test Case Description	Test Steps	Test Data	Expected Result
Assign_Task_01	The admin selects an unassigned cleaning task and selects a cleaner to assign it to	<ol style="list-style-type: none">1. Select an unassigned cleaning task2. View the list of cleaners3. Select a cleaner from the list4. Check if the cleaning task is now assigned	Cleaning task: any unassigned cleaning task Cleaner: any cleaner	The previously unassigned cleaning task is now shown as assigned

Test Scenario ID	Test Scenario Description	Pre-conditions		
Test_Litter_014	Check progress on the reported litter	The app is open and the user is logged in and the user has submitted a litter report earlier		
Test Case ID	Test Case Description	Test Steps	Test Data	Expected Result
Check_Progress_01	The user views the status of their submitted litter report	<div>1. Navigate to the Submissions screen</div> <div>2. Check the status of your report</div>	The submitted report	The submitted report is displayed, along with its details and status

Test Scenario ID	Test Scenario Description	Pre-conditions		
Test_Litter_015	Verify sightings	The app is open and the admin is logged in and the admin is in the Reported Sightings menu		
Test Case ID	Test Case Description	Test Steps	Test Data	Expected Result
Verify_Sightings_01	The admin verifies an unverified litter report submission	<div>1. Navigate to the Reported Sightings screen</div> <div>2. Select an unverified litter report submission</div> <div>3. Choose the Verify option</div> <div>4. Navigate to the Reported Sightings screen again to check the status</div>	Unverified litter report submission: Any unverified litter report submission Chosen option: Verify	The status of that particular litter report submission is now <i>‘Verified’</i>
Verify_Sightings_02	The admin dismisses an unverified litter report submission	<div>1. Navigate to the Reported Sightings screen</div> <div>2. Select an unverified litter report submission</div> <div>3. Choose the Dismiss option</div> <div>4. Navigate to the Reported Sightings screen again to check the status</div>	Unverified litter report submission: Any unverified litter report submission Chosen option: Dismiss	The status of that particular litter report submission is now <i>‘Dismissed’</i>

Test Scenario ID	Test Scenario Description	Pre-conditions		
Test_Litter_016	View list of tasks (sorted by urgency)	A task or more tasks have been assigned to the cleaner by the admin		
Test Case ID	Test Case Description	Test Steps	Test Data	Expected Result
View_Tasks_01	The cleaner views the list of tasks assigned to them	<ol style="list-style-type: none"> 1. Navigate to the Tasks screen 2. Check the contents of the Tasks screen 	The list of assigned tasks	The list of assigned tasks is displayed, and they are sorted by urgency

Test Scenario ID	Test Scenario Description	Pre-conditions		
Test_Litter_017	Start task/Pause task/Complete task	A task or more tasks have been assigned to the cleaner by the admin and the cleaner has chosen one task to work on		
Test Case ID	Test Case Description	Test Steps	Test Data	Expected Result
Change_Task_Status_01	The cleaner changes the status of a task they are working on into Started	<ol style="list-style-type: none"> 1. Navigate to the Tasks screen 2. Select the task you have selected to work on 3. Press the Start task button 	The chosen task from the assigned tasks list	The status of the chosen task now says Started
Change_Task_Status_02	The cleaner changes the status of a task they are working on into Paused	<ol style="list-style-type: none"> 1. Navigate to the Tasks screen 2. Select the task you have selected to work on 3. Press the Pause task button 	The chosen task from the assigned tasks list	The status of the chosen task now says Paused
Change_Task_Status_03	The cleaner changes the status of a task they are working on into Completed	<ol style="list-style-type: none"> 1. Navigate to the Tasks screen 2. Select the task you have selected to work on 3. Press the Complete task button 	The chosen task from the assigned tasks list	The status of the chosen task now says Completed

6. Sprint review

- In this sprint we have selected additional features from the product backlog and put them in the sprint backlog. These were 'Assign task to a specific cleaner', 'Check progress on the reported litter', 'Verify sightings', 'View list of tasks (sorted by urgency)' and 'Start task/Pause task/Complete task'.

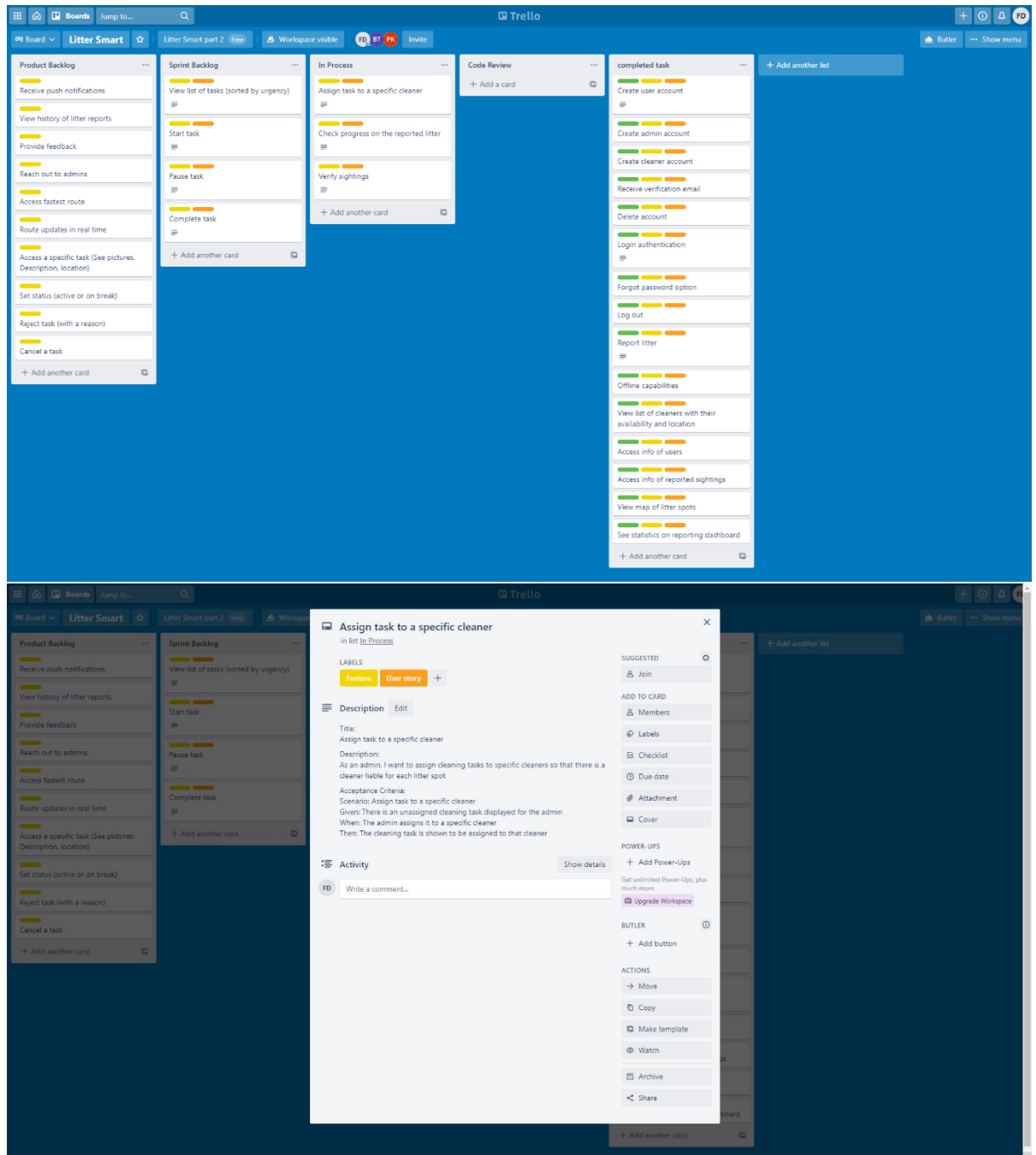
We have made user stories with acceptance criteria for these features.

Next up, we have detailed the technical task for each of the items in the sprint backlog.

After that, we have written test cases for all scenarios in the user stories.

This concludes this sprint, which is now a potentially shippable product.

7. Kanban board



Appendix

Team Contribution Declaration form

Name	Student code	List of contributions	Contribution %
Abdelhakim Ouchbouk	B00794491	Drafts, mainly for technical task	15
Bibek Thapa	B00792128	Drafts	10
David Fodor	B00796884	Basically everything	50
Pami Karki	B00796002	Drafts for everything	25