

CSCE 606 – Software Engineering
Project: Inventory System
Sprint # 3 – Planning

Customer: Dr. Robert Lightfoot

Development Team:

- Rafael Morales
- Khush Patel
- Saba Mostofi (Product Owner)
- Arun Akash Rangaraj (Scrum Master)
- Sid Rayapur

Links:

- Deployed app: <https://robert-inventory-f91e26f91bb2.herokuapp.com/>
- Github Project: <https://github.com/orgs/tamu-edu-students/projects/101>
- Github Repo: <https://github.com/tamu-edu-students/CSCE-606-Inventory-System>
- Shared folder: <https://drive.google.com/drive/folders/1NsQfvHf9n272E8VKVghdkU4B7Elk4EYI>
- Discussion Channel: <https://app.slack.com/client/T08A4A8U89M/C08AJRT0UTC>

Sprint #3 Goal:

The goal of this sprint is to focus on developing and refining the **front-end** features of the application. This includes implementing UI components, enhancing user interactions, and ensuring seamless integration with backend functionalities. The key features to be developed in this sprint are:

- **Search Bar on Dashboard** – Implement a search box for quickly finding bins and items.
- **Search by Location on Dashboard** – Enable location-based search for bins and items.
- **Mini Window for Logout** – Create a user info window with a secure logout option.
- **Webpage Tab** – Develop a persistent tab for easy navigation and actions.
- **UI for Items** – Design and implement a structured table for managing items.
- **UI for Bins** – Design and implement a structured table for managing bins.
- **Pop-up Window for Logging Movements** – Develop a pop-up for recording item movements.
- **Pop-up Window for Sales Report** – Implement a pop-up for generating sales reports.
- **Location Index Page** – Create an index page listing all available locations.

By the end of this sprint, the **dashboard UI, search functionalities, and pop-up interactions** should be fully implemented and tested, ensuring a smooth and intuitive user experience.

Sprint Backlog and User Stories:

- **Feature:** Search Bar on Dashboard
As a user of the website,
I want to have a search box,
So that so that I can quickly find my bins and items
Points: 5

Feature: Search by Location on Dashboard
As a user of the website,
I want to search for bins and items by location,
So that I can easily find items in specific locations.
Points: 3

Feature: Mini Window for Logout
As a user of the website,
I want a mini window displaying my user information,
So that I can safely log out from the app.
Points: 2

Feature: Webpage Tab
As a user of the website,
I want to have a tab on top of the page,
So that I can always perform any action with bins and items.
Points: 1

Feature: UI for Items
As a user of the website,
I want an organized table displaying all items,
So that I can easily identify and manage my inventory.
Points: 2

Feature: UI for Bins
As a user of the website,
I want an organized table displaying all bins,
So that I can easily identify and manage my storage bins.
Points: 3

Feature: Pop-up Window for Logging Movements

As a user of the website,

I want a pop-up window to input start and end dates when clicking "LOG",
So that I can keep a record of item movements within a specific date range.

Points: 4

Feature: Pop-up Window for Sales Report

As a user of the website,

I want a pop-up window to input a date range for sales,
So that I can generate a table of items available for sale within that period.

Points: 3

Feature: Location Index Page

As a user of the website,

I want to see a list of all available locations,
So that I can search for bins or items within a specific location.

Points: 1

// Remaining from the previous sprint

- **Feature:** Simple UI for CRUD Operations:
As a developer,
I want to have a basic UI for CRUD operations on every model,
So that I can visually track development progress.
Points: 3

Assignment of tasks:

- **Feature:** Search by Location on Dashboard
Developer: Rafael
Tasks:
 - implement a search function for bins and items by location.
 - Modify database schema if needed to optimize location-based searches.
 - Update the controller and view to integrate the search functionality.
 - Create new migrations.
 - Create BDD and TDD.
- **Feature:** Mini Window for Logout
Developer: Khush

Tasks:

- Create a mini window displaying user information.
- Implement a secure logout function within the mini window.
- Update session handling logic if needed.
- Update controller and view to ensure proper functionality.
- Create new migrations if required.
- Create BDD and TDD.

- **Feature:** Webpage Tab

Developer: Rafael

Tasks:

- Create a persistent webpage tab for bins and items management.
- Implement necessary functions to interact with bins and items from the tab.
- Modify controller and view to integrate the tab functionality.
- Update navigation logic if required.
- Create new migrations if needed.
- Create BDD and TDD.

- **Feature:** UI for Items

Developer: Saba

Tasks:

- Create an organized table displaying all items.
- Add sorting and filtering options for better item management.
- Update controller and view to support item data.
- Ensure UI responsiveness across different screen sizes.
- Create new migrations if required.
- Create BDD and TDD

- **Feature:** UI for Bins

Developer: Saba

Tasks:

- Create an organized table displaying all bins.
- Add sorting and filtering options for better bin management.
- Update controller and view to support bin data.
- Ensure UI responsiveness across different screen sizes.
- Create new migrations if required.
- Create BDD and TDD.

- **Feature:** Pop-up Window for Logging Movements

Developer: Khush

Tasks:

- Create a pop-up window for inputting start and end dates for logging movements.
- Ensure validation of date inputs.
- Update controller and view to handle logging requests.
- Modify the database if necessary for storing movement logs.
- Create new migrations if required.
- Create BDD and TDD.

- **.Feature:** Location Index Page

Developer: Arun

Tasks:

- Create an index page listing all available locations.
- Implement a search function to filter locations.
- Modify the Bin and Item models if necessary to include location references.
- Update controller and view to integrate location-based searches.
- Create new migrations if required.
- Create BDD and TDD.

- **.Feature:** Search Bar on Dashboard

Developer: Rafael

Tasks:

- Create a search box on the dashboard.
- Implement backend support to search for bins and items efficiently.
- Optimize search queries for fast response times.
- Update controller and view to integrate the search functionality.
- Create new migrations if required.
- Create BDD and TDD.

- **.Feature:** Simple UI for CRUD Operations

Developer: Arun

Tasks:

- This UI should be simple and functional for backend testing.
- The main focus is to ensure all backend features work correctly before shifting focus to frontend improvements in future sprints.
- Add search Bin capabilities, Add Search Item capabilities
- Create BDD and TDD