Lost and Found Item Tracker

Done By: S. Vishwajith 23BCE1145

Integration testing

The following tests were conducted:

1. Login button must be rendered when the Employee has logged out.
2. Logout button must be rendered when the Employee has logged in.
3. To render buttons for item, finder and claimer in the Home Page.
4. To show “No finders found” on the finders’ subpage if the list of finders is empty.
5. To call the API to fetch finders when the user clicks on the finder button.
6. To call the function responsible for maintaining the state of the variable that stores the view of the Home Page (item, finder, claimer).
7. To check if the FinderCard component renders the details of the finder perfectly in a card-like format.
8. To check if the FinderCard component shows the edit and delete buttons only when the employee has logged in.
9. To check if the delete button of the FinderCard component calls the function responsible for deleting the respective finder.
10. To check if the ItemCard component renders the details of the finder perfectly in a card-like format.
11. To check if the ItemCard component shows the edit and delete buttons only when the employee has logged in.
12. To check if the delete button of the ItemCard component calls the function responsible for deleting the respective item.

```
PS C:\Users\vishw\Coding\Lost and Found Item Tracker> cd frontend && npx vitest
 DEV  v4.0.8 C:/Users/vishw/Coding/Lost and Found Item Tracker/frontend

stderr | src/__tests__/FinderCard.test.jsx > FinderCard Component > clicking Delete calls deleteFinder
An update to ToastProvider inside a test was not wrapped in act(...).

When testing, code that causes React state updates should be wrapped into act(...):

act(() => {
  /* fire events that update state */
});
/* assert on the output */

This ensures that you're testing the behavior the user would see in the browser. Learn more at https://react.dev/link/wrap-tests-with-act

(node:3032) Warning: `--localstorage-file` was provided without a valid path
(Use `node --trace-warnings ...` to show where the warning was created)
 ✓ src/__tests__/Navbar.test.jsx (2 tests) 854ms
   ✓ renders login button when logged out  555ms
(node:18388) Warning: `--localstorage-file` was provided without a valid path
This ensures that you're testing the behavior the user would see in the browser. Learn more at https://react.dev/link/wrap-tests-with-act

(node:3032) Warning: `--localstorage-file` was provided without a valid path
(Use `node --trace-warnings ...` to show where the warning was created)
 ✓ src/__tests__/Navbar.test.jsx (2 tests) 854ms
   ✓ renders login button when logged out  555ms
(node:18388) Warning: `--localstorage-file` was provided without a valid path
(Use `node --trace-warnings ...` to show where the warning was created)
 ✓ src/__tests__/FinderCard.test.jsx (3 tests) 914ms
     ✓ renders finder details correctly  383ms
stderr | src/__tests__/ItemCard.test.jsx > ItemCard Component > clicking Delete triggers deleteItem
An update to ToastProvider inside a test was not wrapped in act(...).

When testing, code that causes React state updates should be wrapped into act(...):

act(() => {
  /* fire events that update state */
});
/* assert on the output */

This ensures that you're testing the behavior the user would see in the browser. Learn more at https://react.dev/link/wrap-tests-with-act

(node:7600) Warning: `--localstorage-file` was provided without a valid path
(Use `node --trace-warnings ...` to show where the warning was created)
```

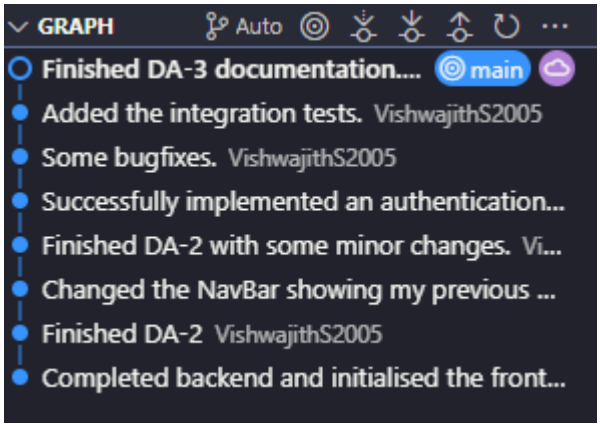
```
✓ src/__tests__/ItemCard.test.jsx (3 tests) 975ms
    ✓ renders item info properly  428ms
    ✓ shows Edit and Delete buttons when logged in  307ms
(node:5464) Warning: `--localstorage-file` was provided without a valid path
(Use `node --trace-warnings ...` to show where the warning was created)
✓ src/__tests__/HomePage.test.jsx (4 tests) 900ms
  ✓ renders buttons for finder, claimer, item  632ms

Test Files  4 passed (4)
     Tests  12 passed (12)
  Start at  19:25:39
  Duration  4.80s (transform 421ms, setup 713ms, collect 7.81s, tests 3.64s, environment 4.80s, prepare 152ms)

PASS  Waiting for file changes...
      press h to show help, press q to quit
```

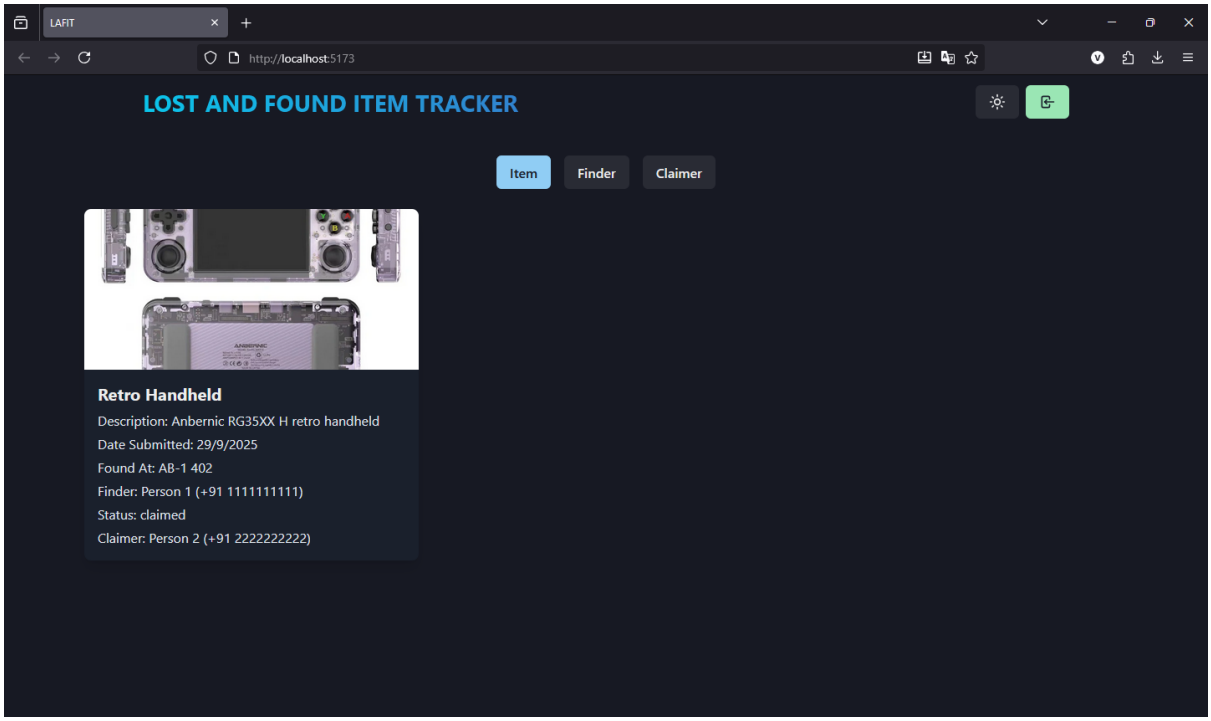
Version Management

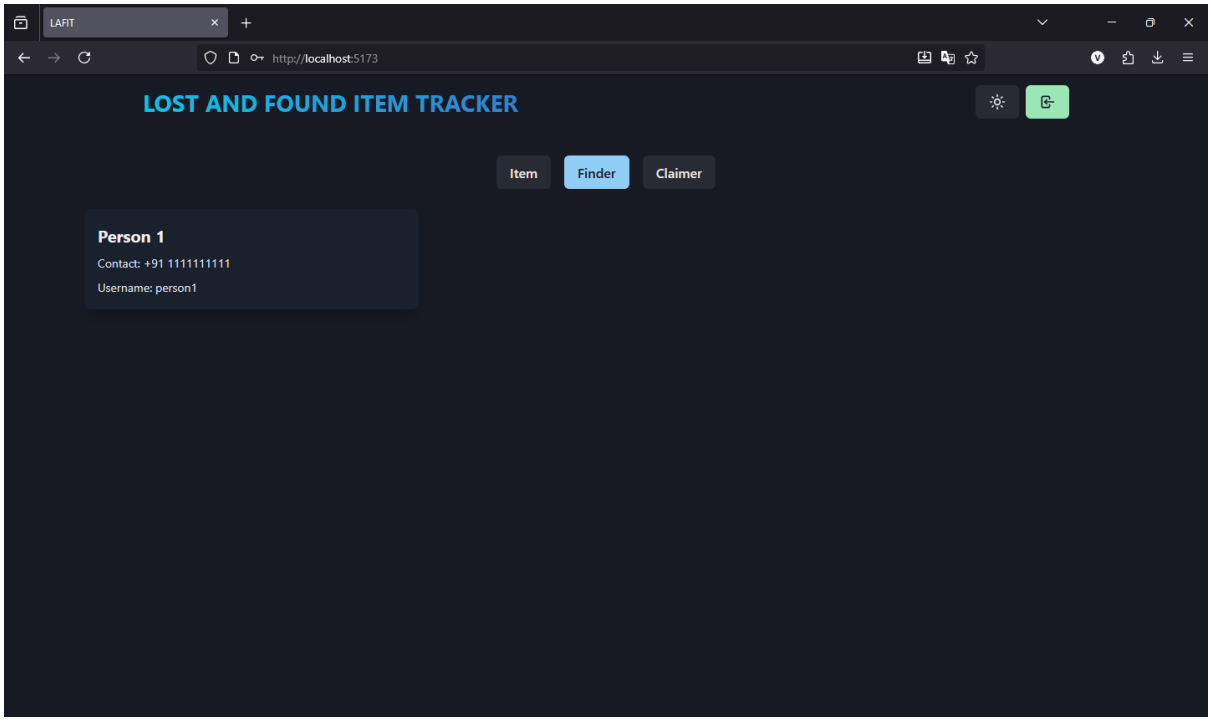
Version Management of this project was handled using the open-source version control tool “git”. The commit tree is as follows:

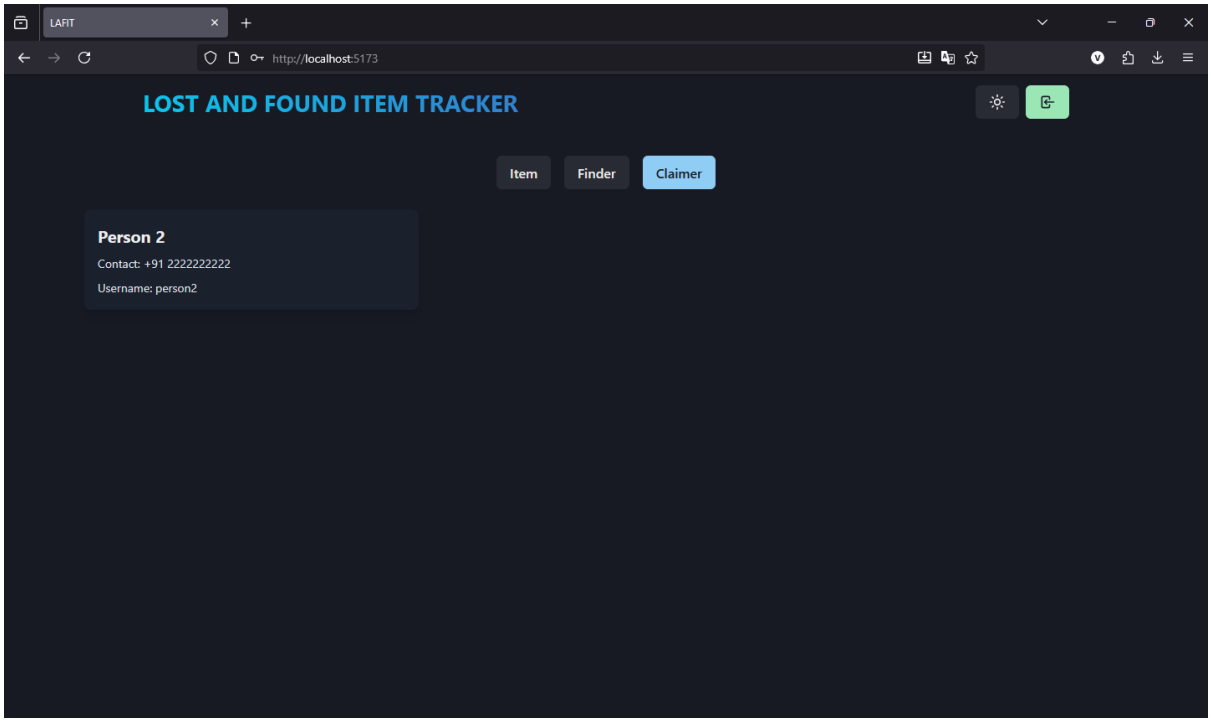


Developed Functionalities

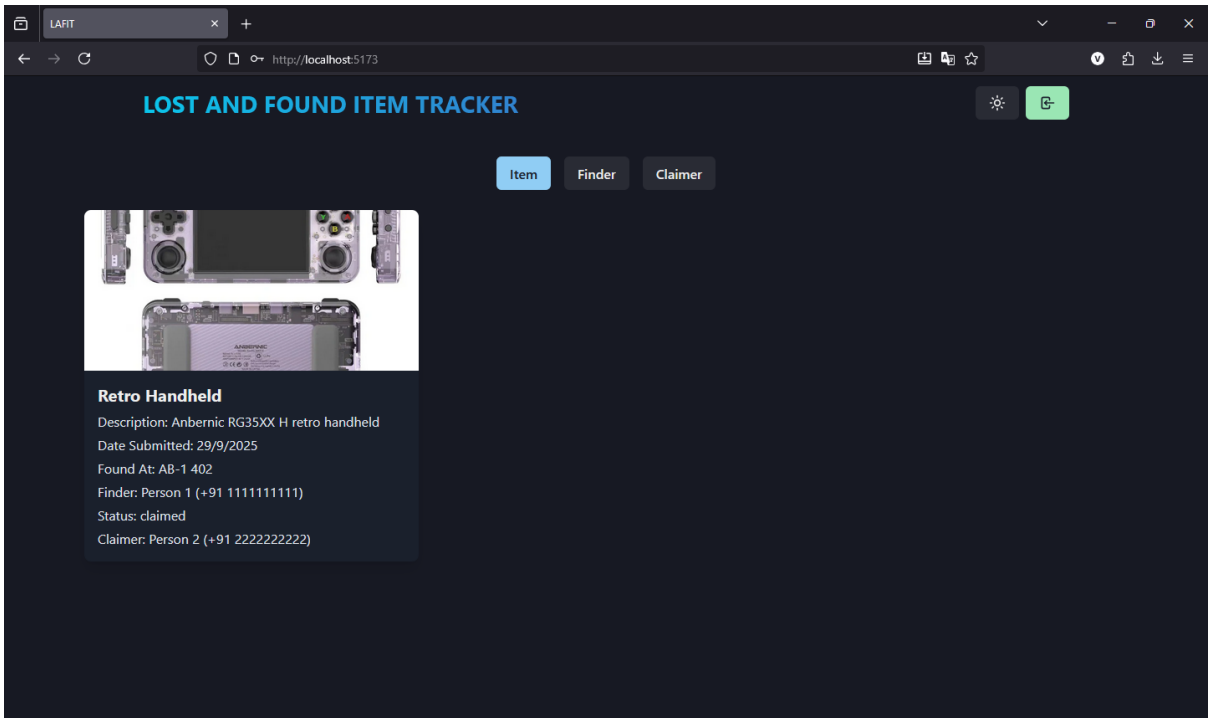
1. Homepage for viewers:

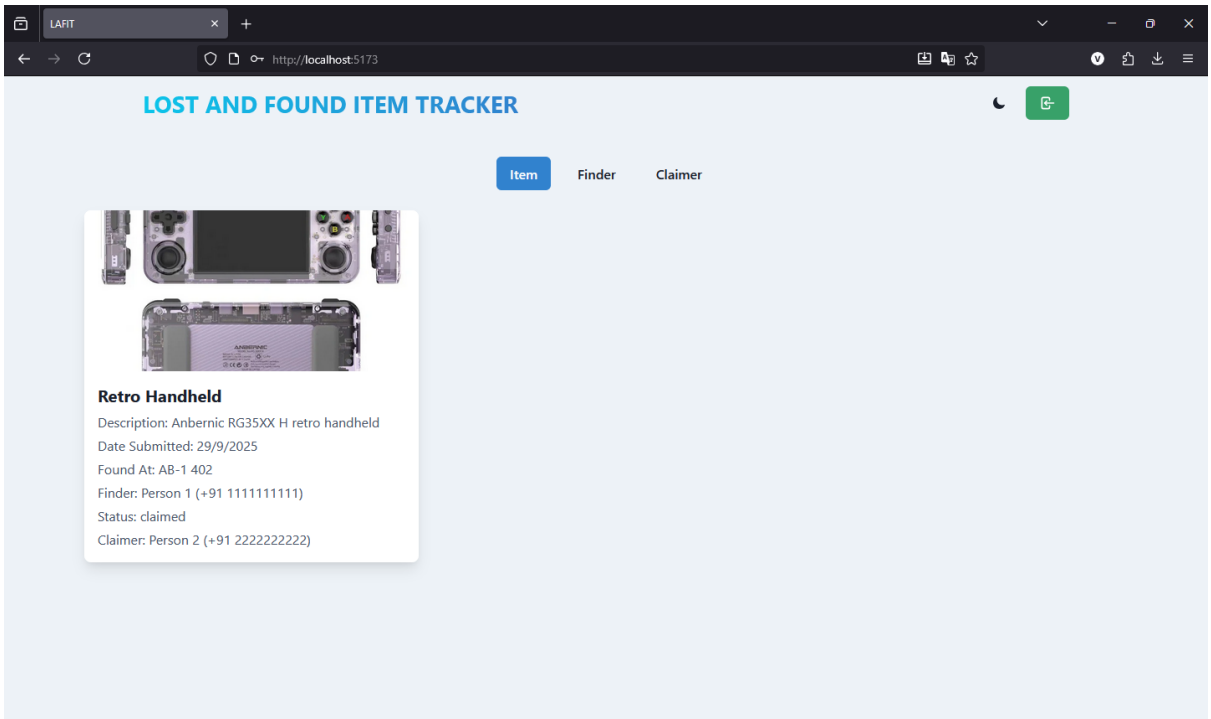



LAFIT
http://localhost:5173
LOST AND FOUND ITEM TRACKER
Item
Finder
Claimer
Person 1
Contact: +91 1111111111
Username: person1

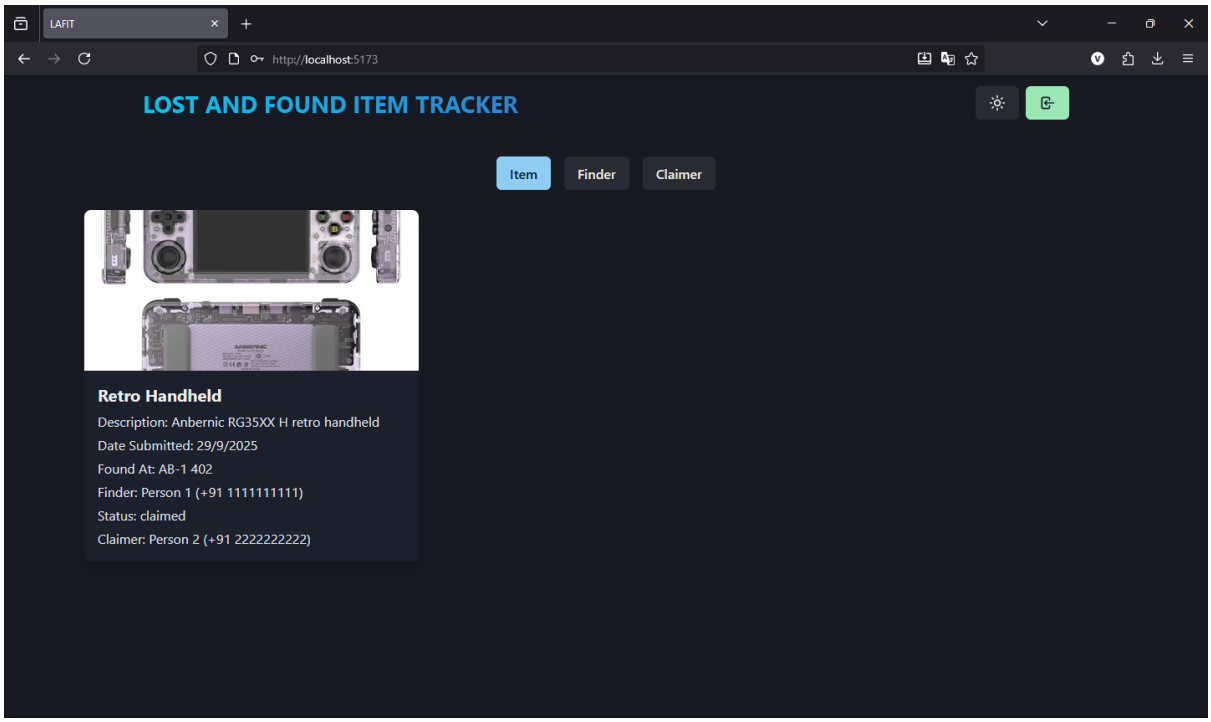

LAFIT
http://localhost:5173
LOST AND FOUND ITEM TRACKER
Item
Finder
Claimer
Person 2
Contact: +91 2222222222
Username: person2

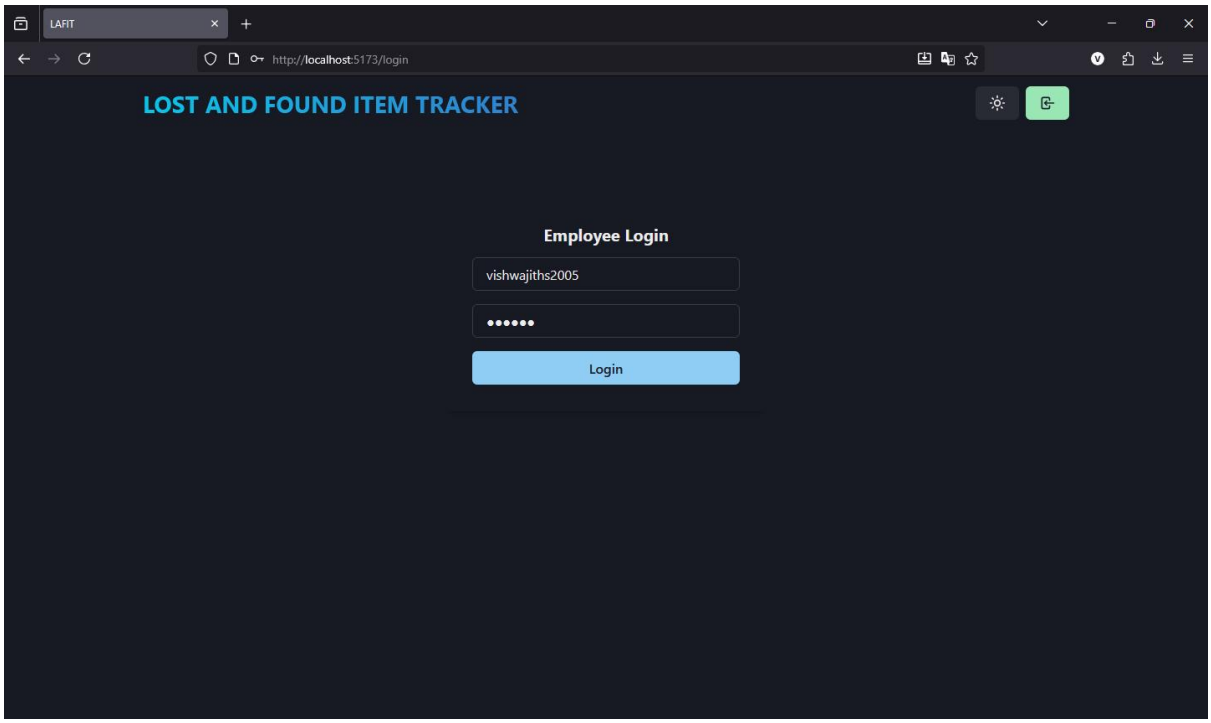
2. Light mode and Dark mode:

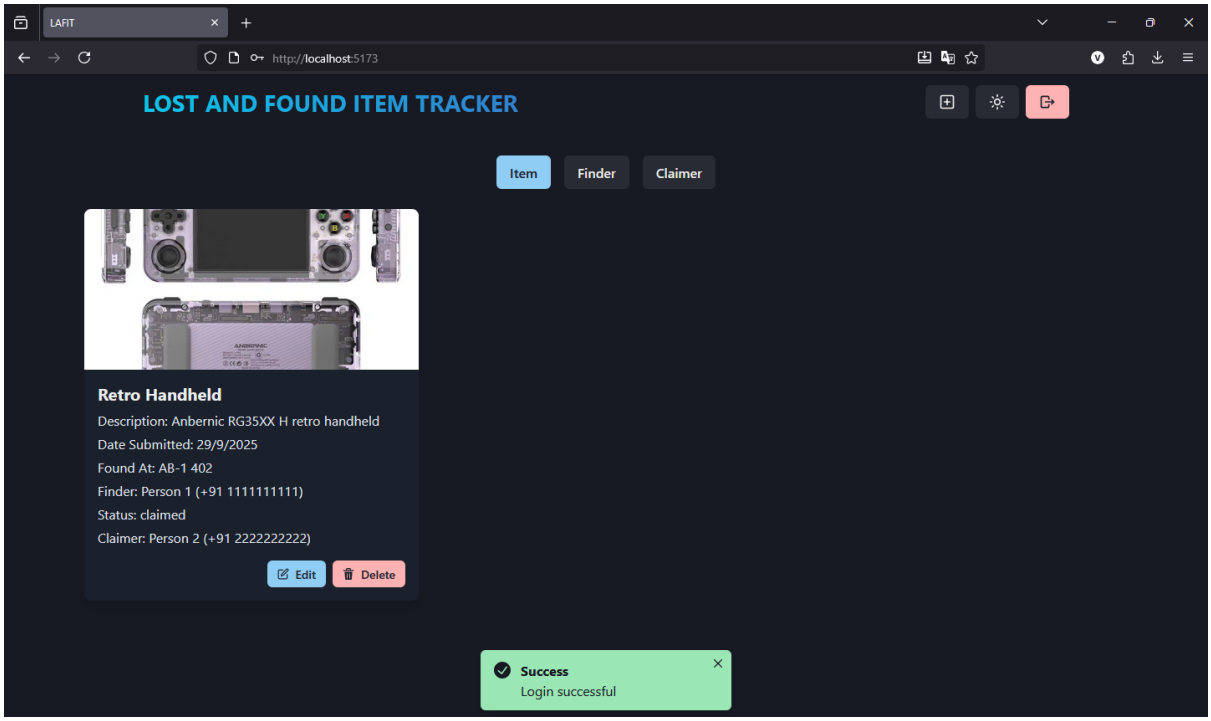


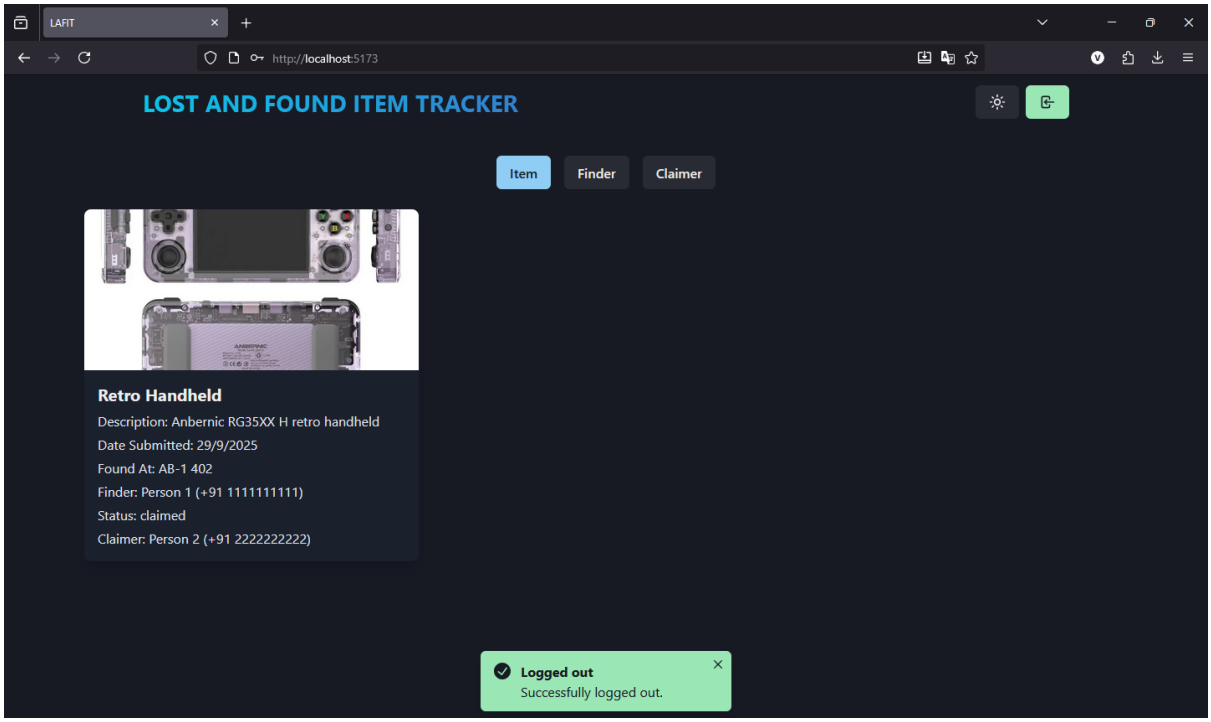


3. Login/Logout:

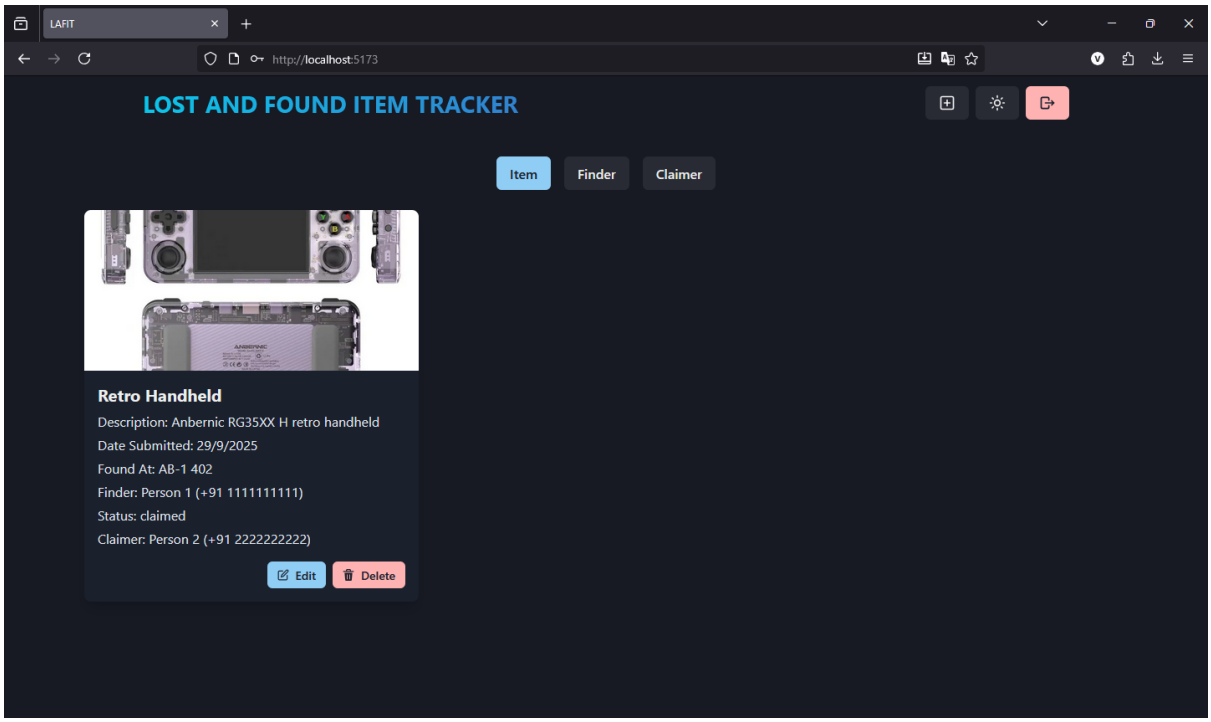


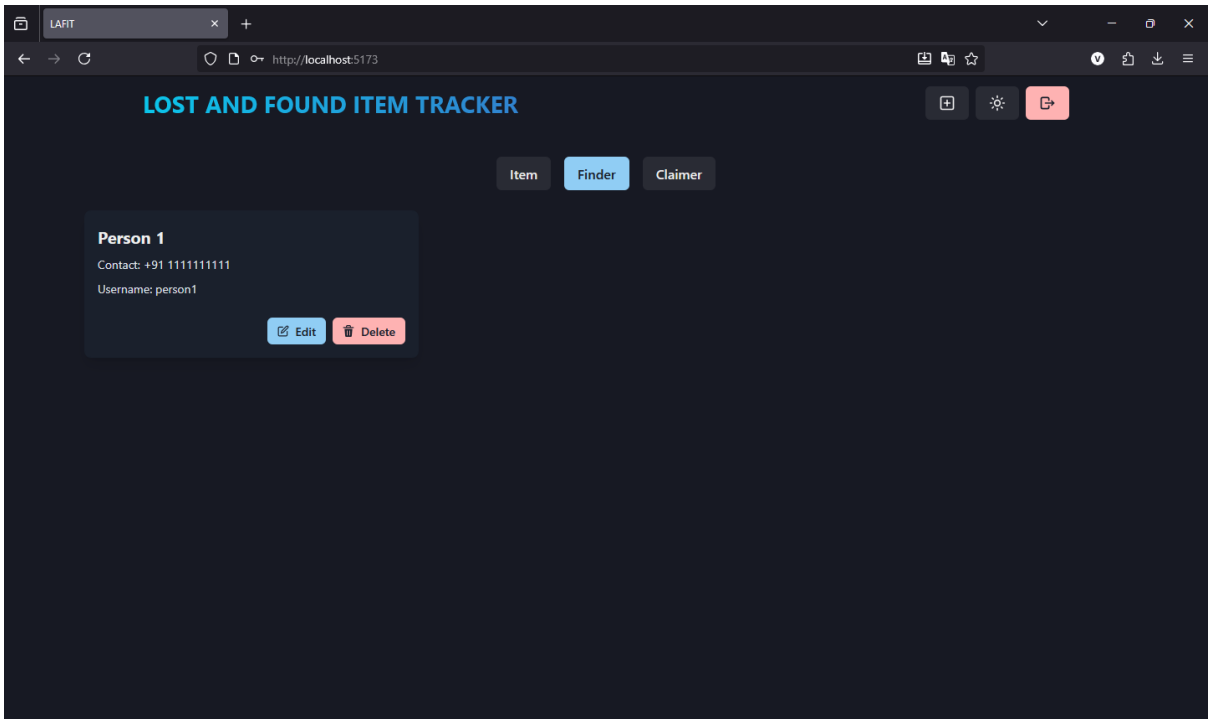


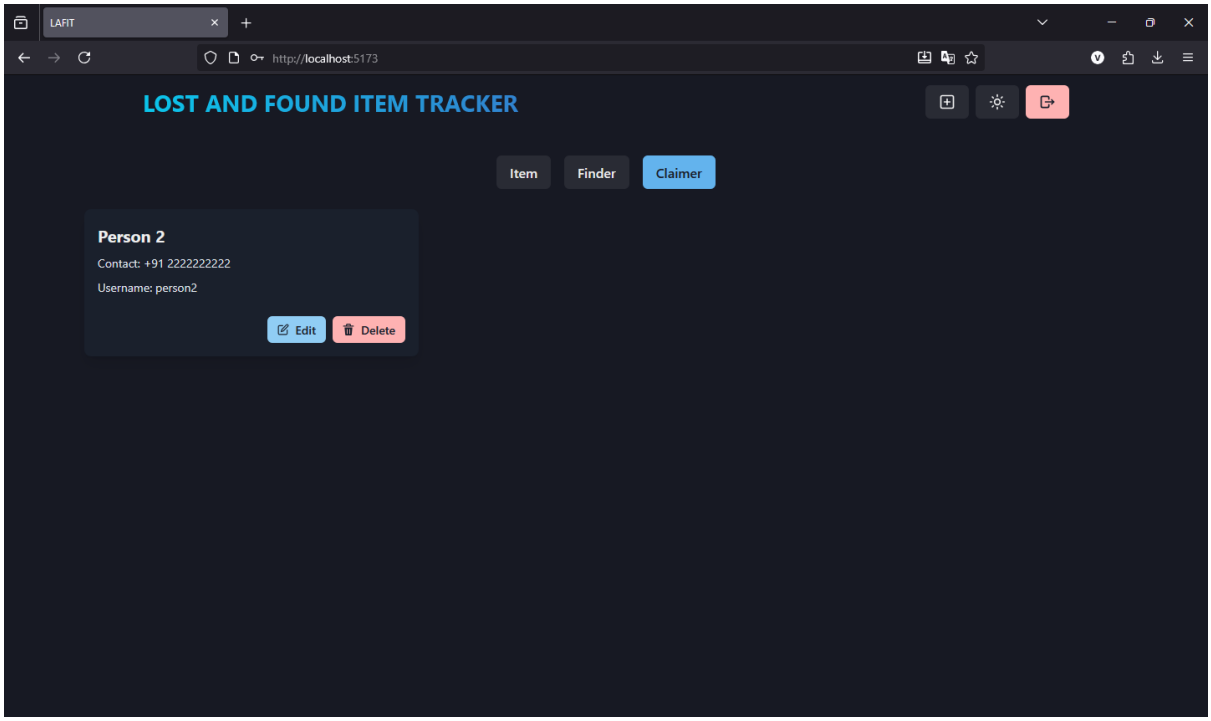

LAFIT
http://localhost:5173
LOST AND FOUND ITEM TRACKER
Item
Finder
Claimer
Retro Handheld
Description: Anbernic RG35XX H retro handheld
Date Submitted: 29/9/2025
Found At: AB-1 402
Finder: Person 1 (+91 1111111111)
Status: claimed
Claimer: Person 2 (+91 2222222222)
Edit
Delete
Success
Login successful


LAFIT
http://localhost:5173
LOST AND FOUND ITEM TRACKER
Item
Finder
Claimer
Retro Handheld
Description: Anbernic RG35XX H retro handheld
Date Submitted: 29/9/2025
Found At: AB-1 402
Finder: Person 1 (+91 1111111111)
Status: claimed
Claimer: Person 2 (+91 2222222222)
Logged out
Successfully logged out.

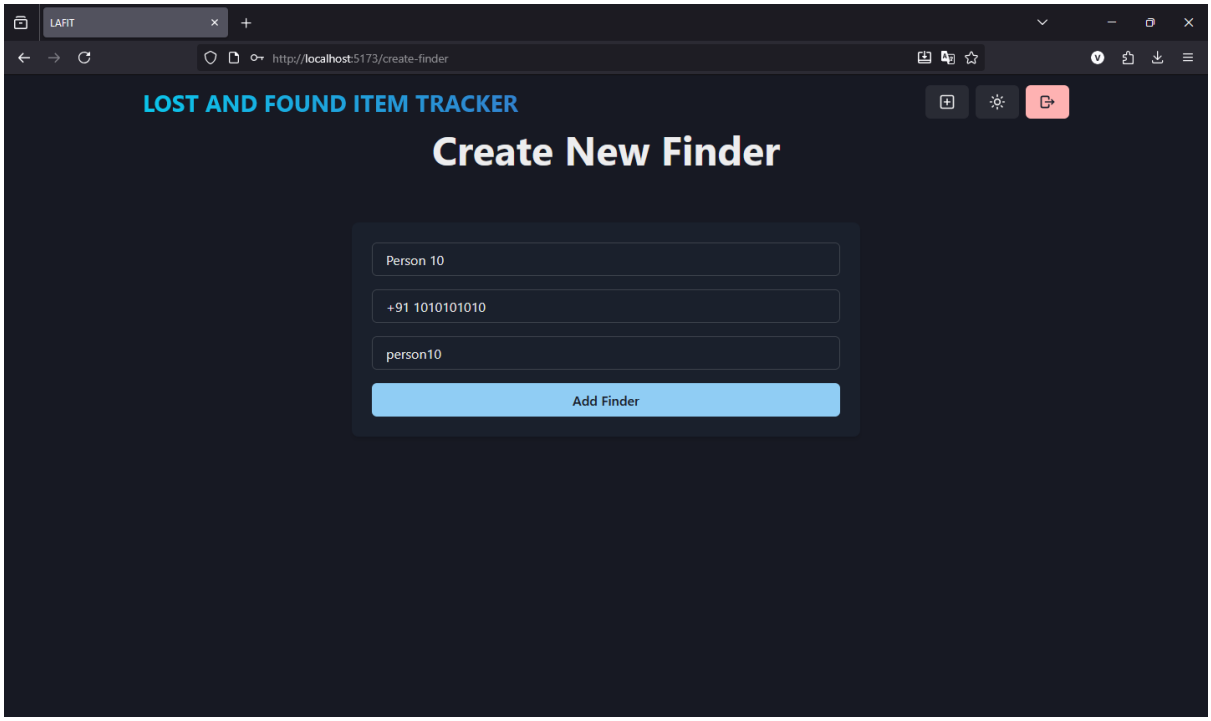
4. Homepage for Employees:

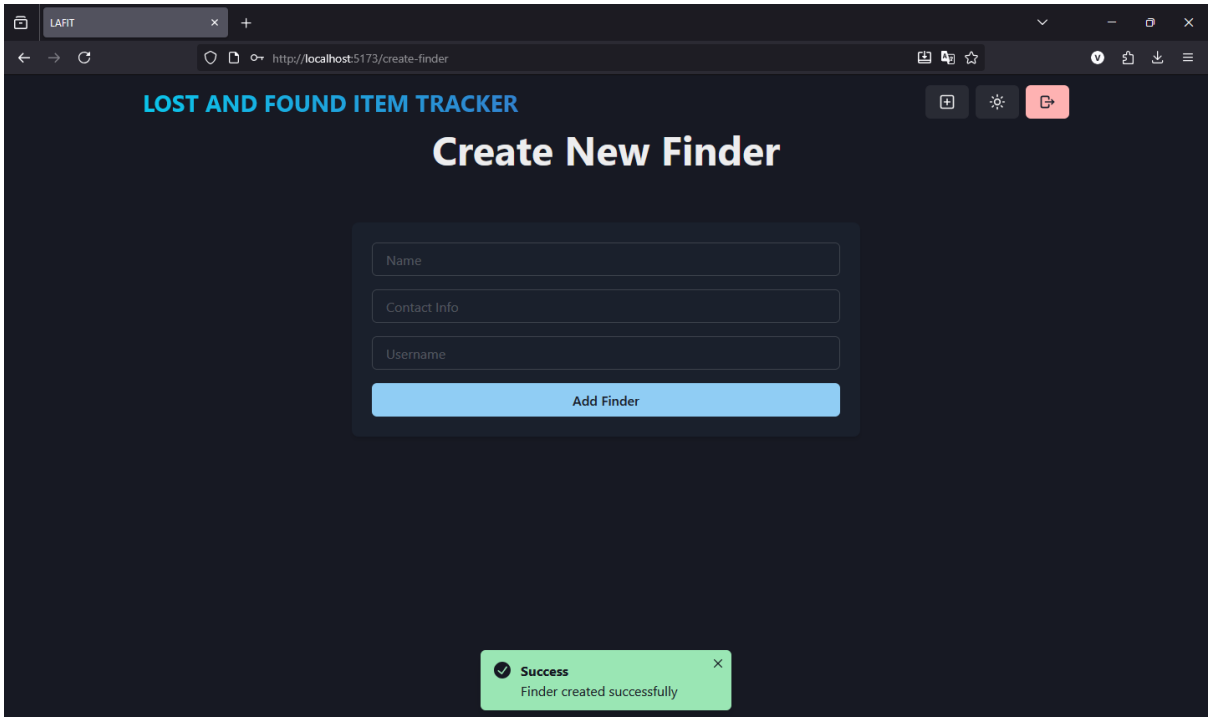


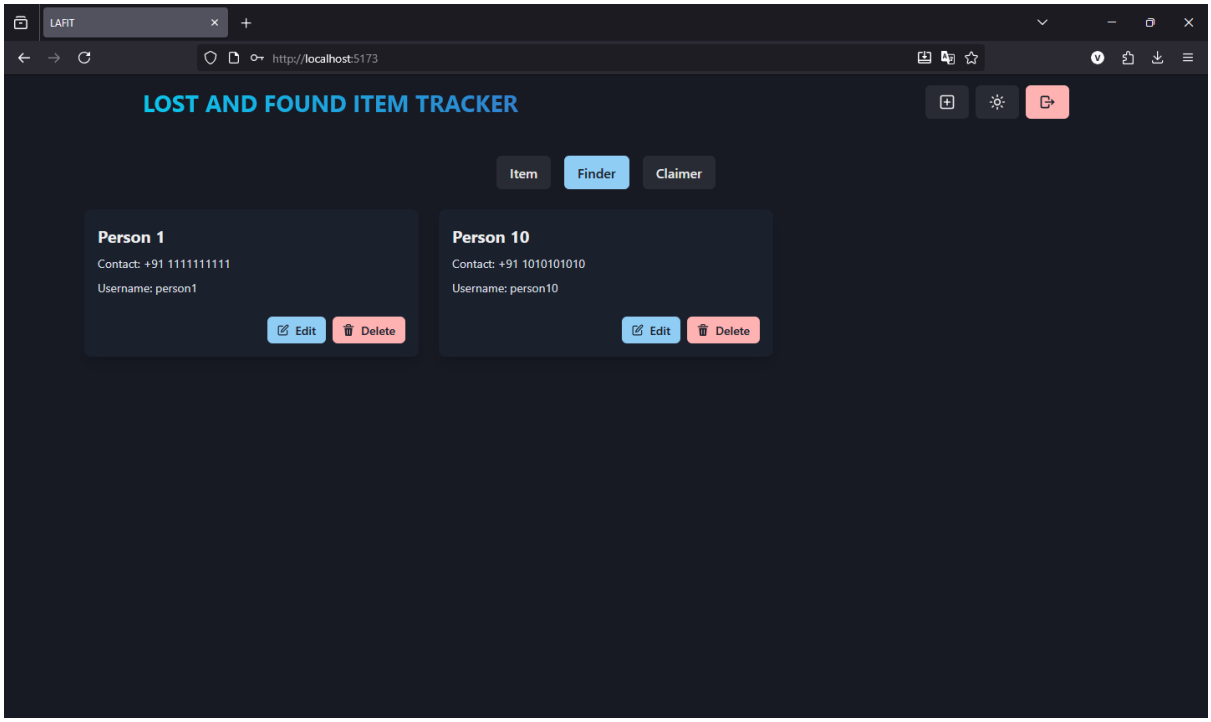


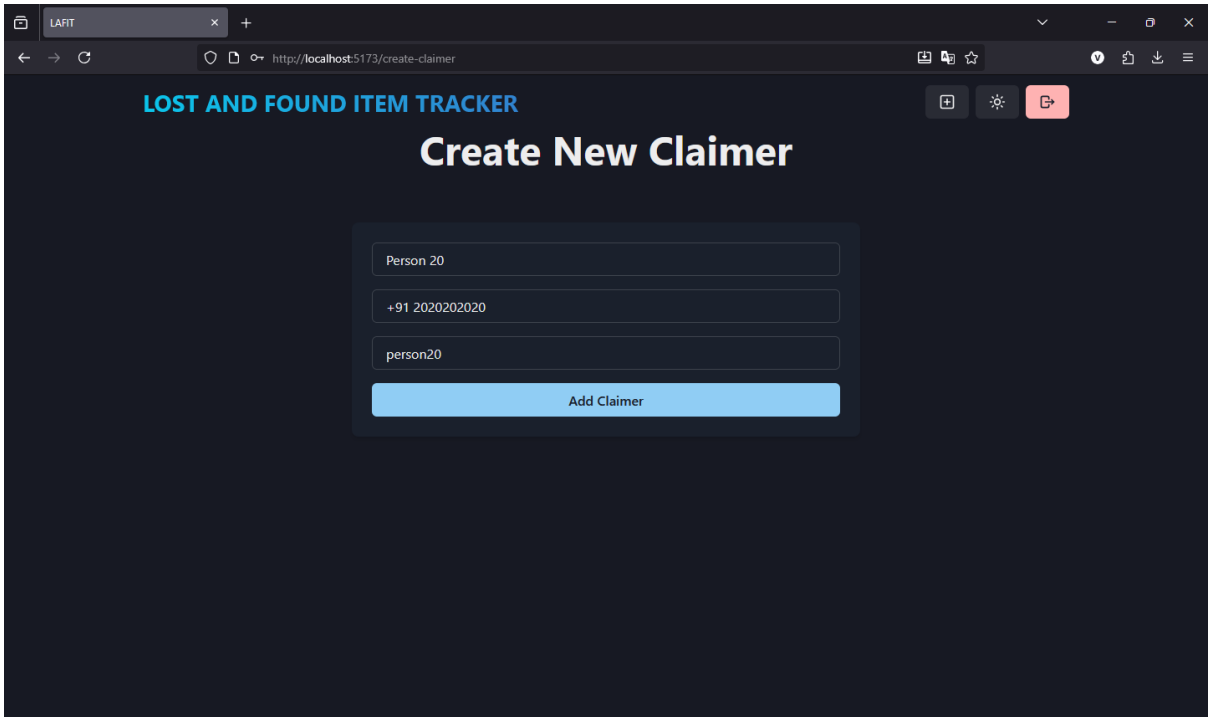


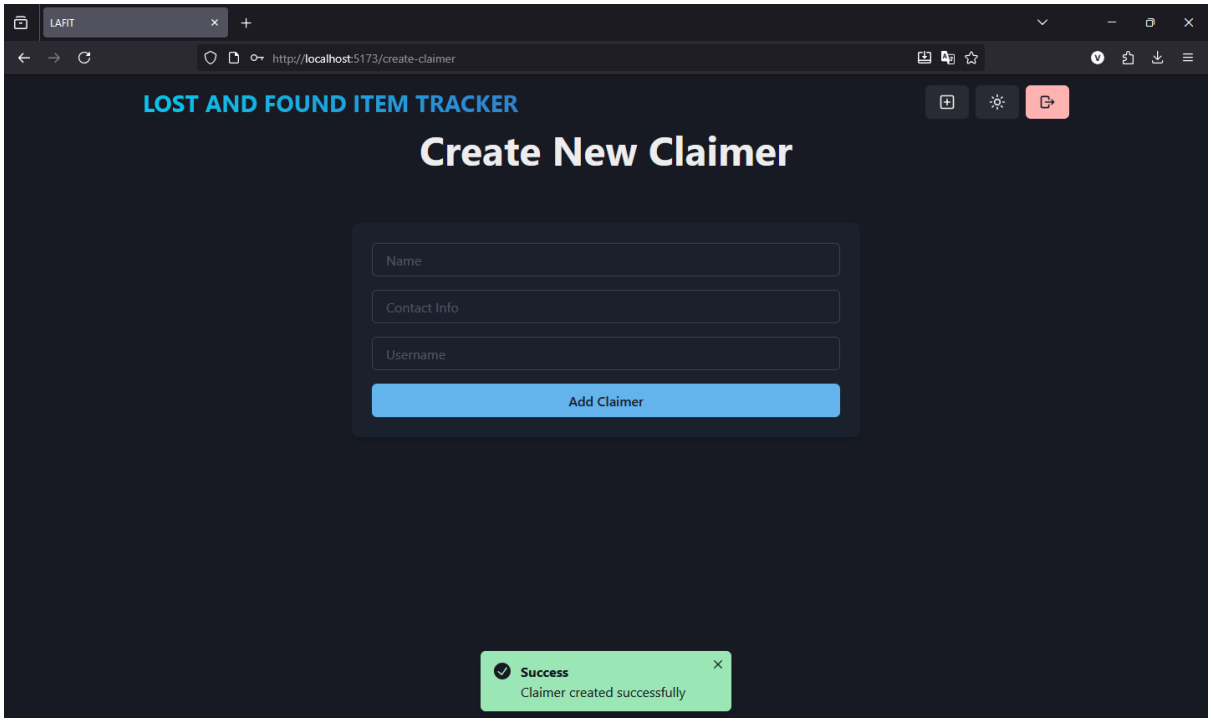
5. Create Pages for Item, Finder and Claimer to add new Items, Finders and Claimers:

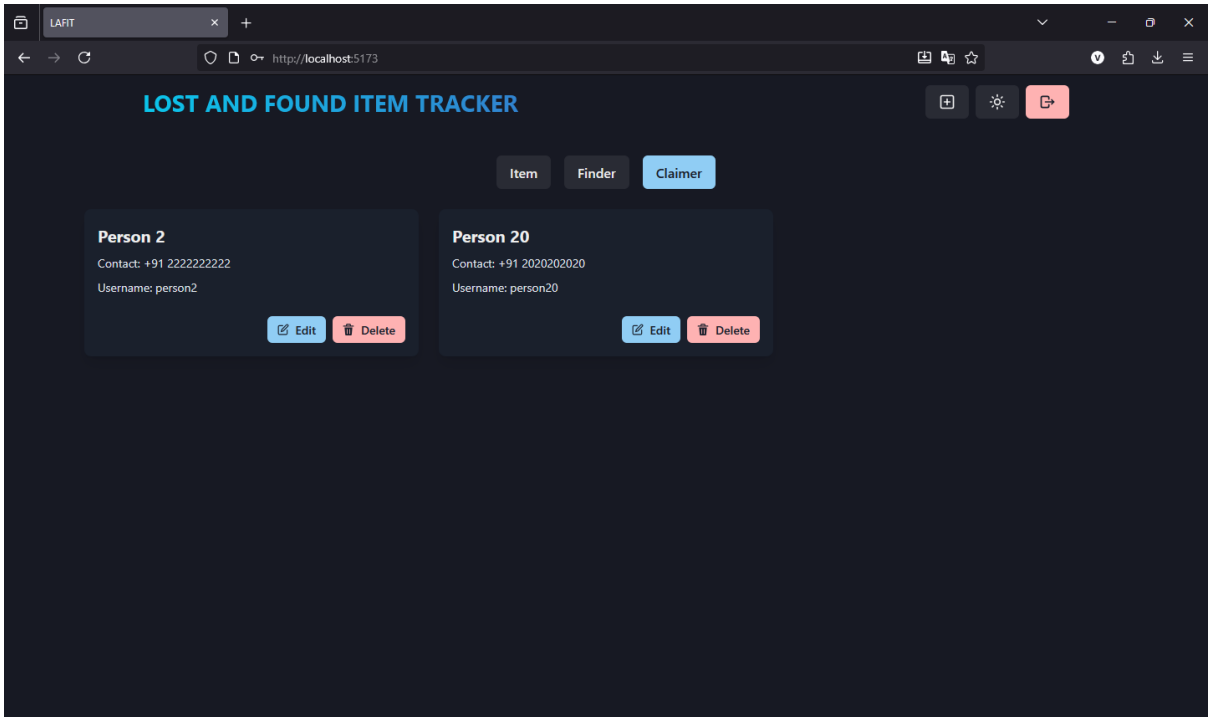


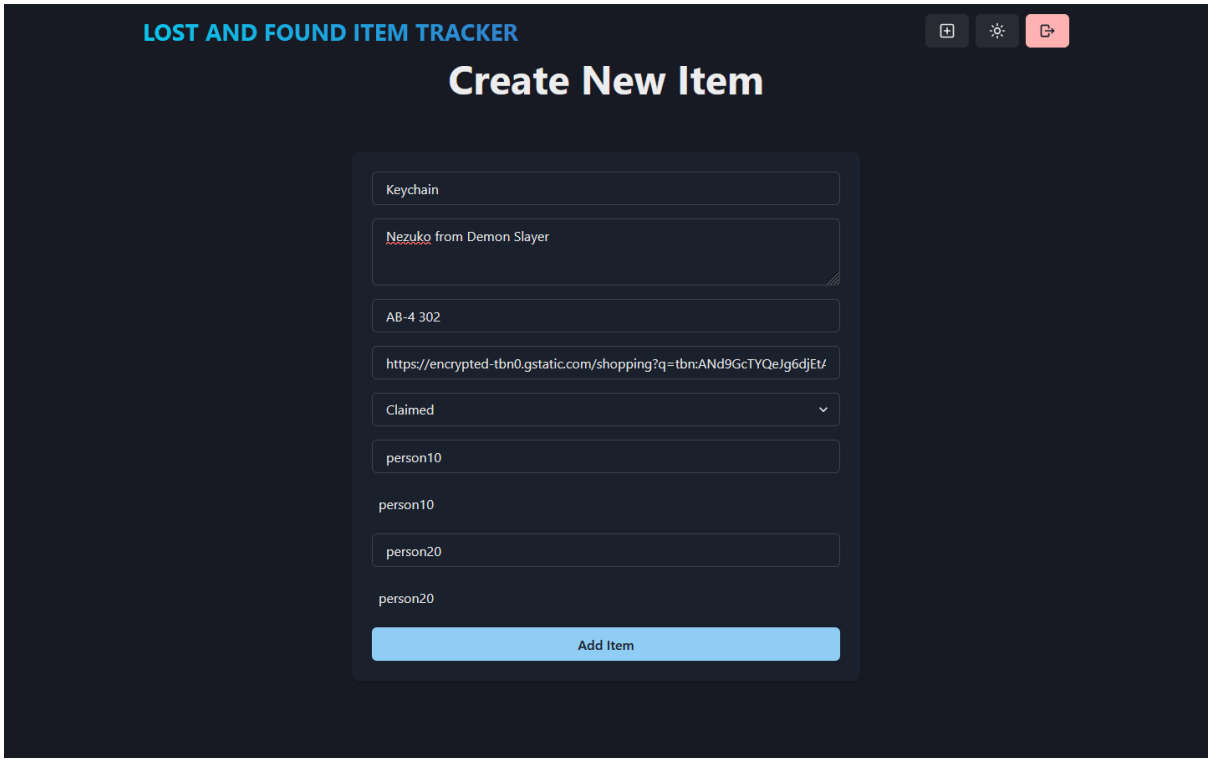

LAFIT
http://localhost:5173/create-finder
LOST AND FOUND ITEM TRACKER
Create New Finder
Name
Contact Info
Username
Add Finder
Success
Finder created successfully

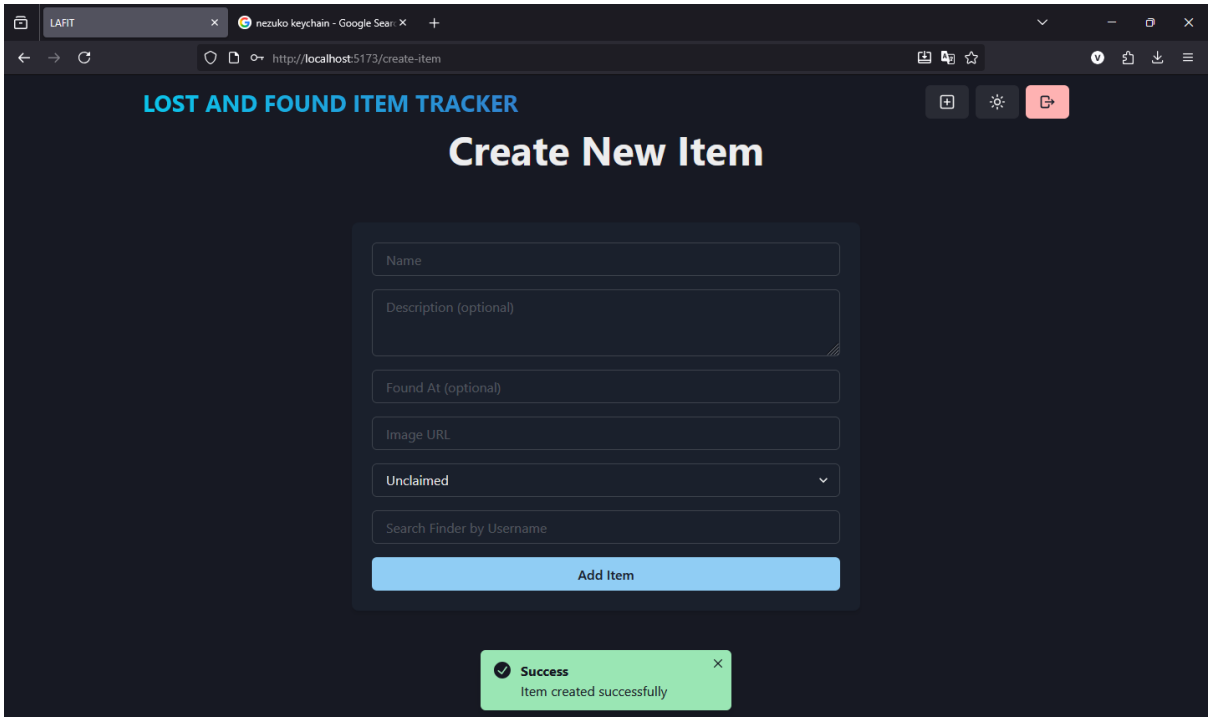

LAFIT
http://localhost:5173
LOST AND FOUND ITEM TRACKER
Item
Finder
Claimer
Person 1
Contact: +91 1111111111
Username: person1
Edit
Delete
Person 10
Contact: +91 1010101010
Username: person10
Edit
Delete

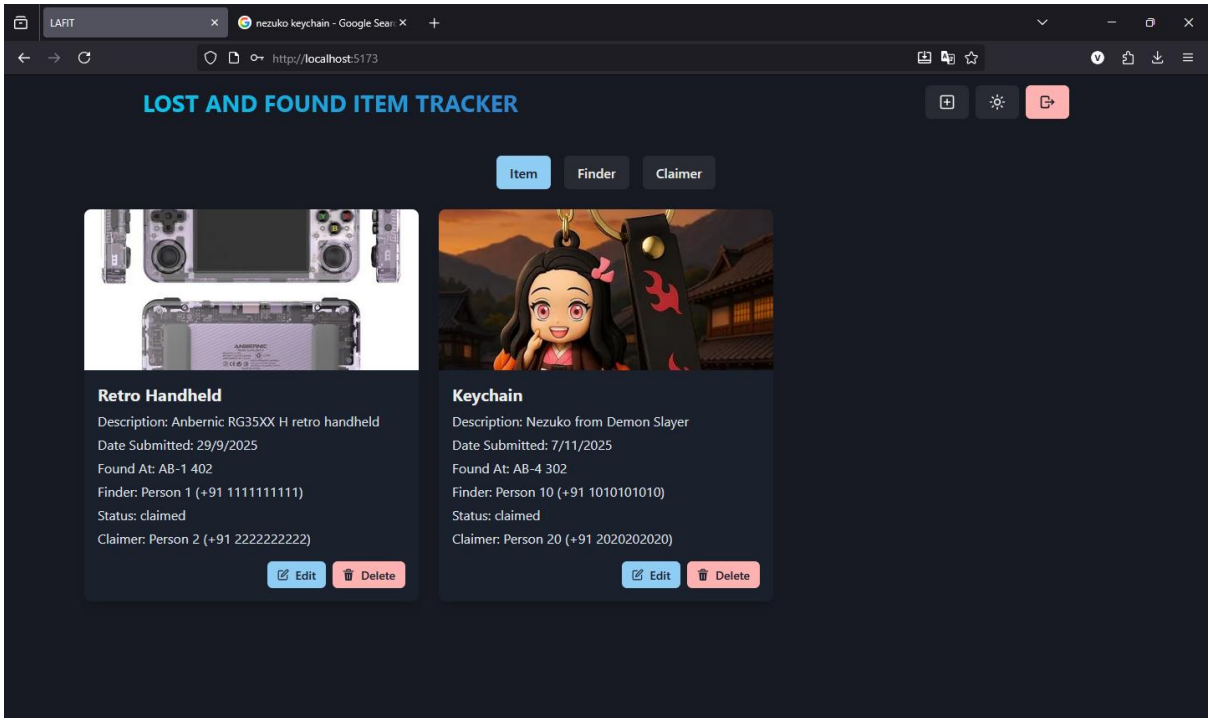

LAFIT
http://localhost:5173/create-claimer
LOST AND FOUND ITEM TRACKER
Create New Claimer
Person 20
+91 2020202020
person20
Add Claimer


LAFIT
http://localhost:5173/create-claimer
LOST AND FOUND ITEM TRACKER
Create New Claimer
Name
Contact Info
Username
Add Claimer
Success
Claimer created successfully

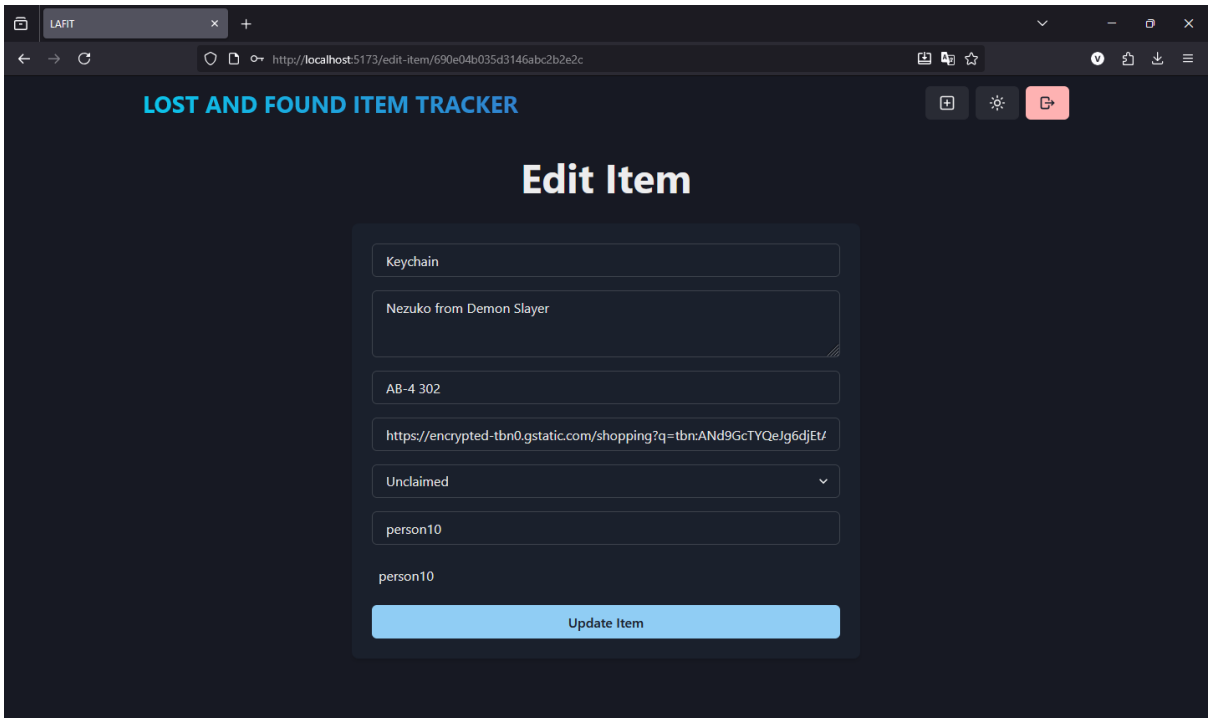

LAFIT
http://localhost:5173
LOST AND FOUND ITEM TRACKER
Item
Finder
Claimer
Person 2
Contact: +91 2222222222
Username: person2
Edit
Delete
Person 20
Contact: +91 2020202020
Username: person20
Edit
Delete

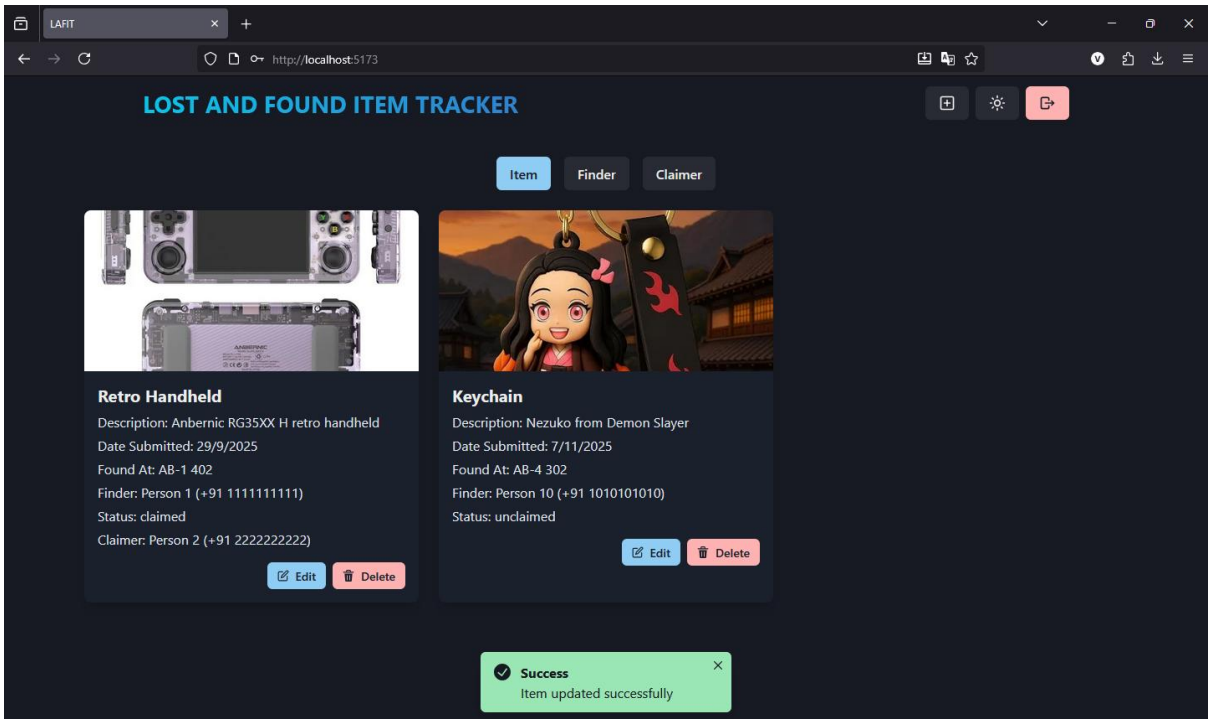

LOST AND FOUND ITEM TRACKER
Create New Item
Keychain
Nezuko from Demon Slayer
AB-4 302
https://encrypted-tbn0.gstatic.com/shopping?q=tbn:ANd9GcTYQeJg6djEt
Claimed
person10
person10
person20
person20
Add Item

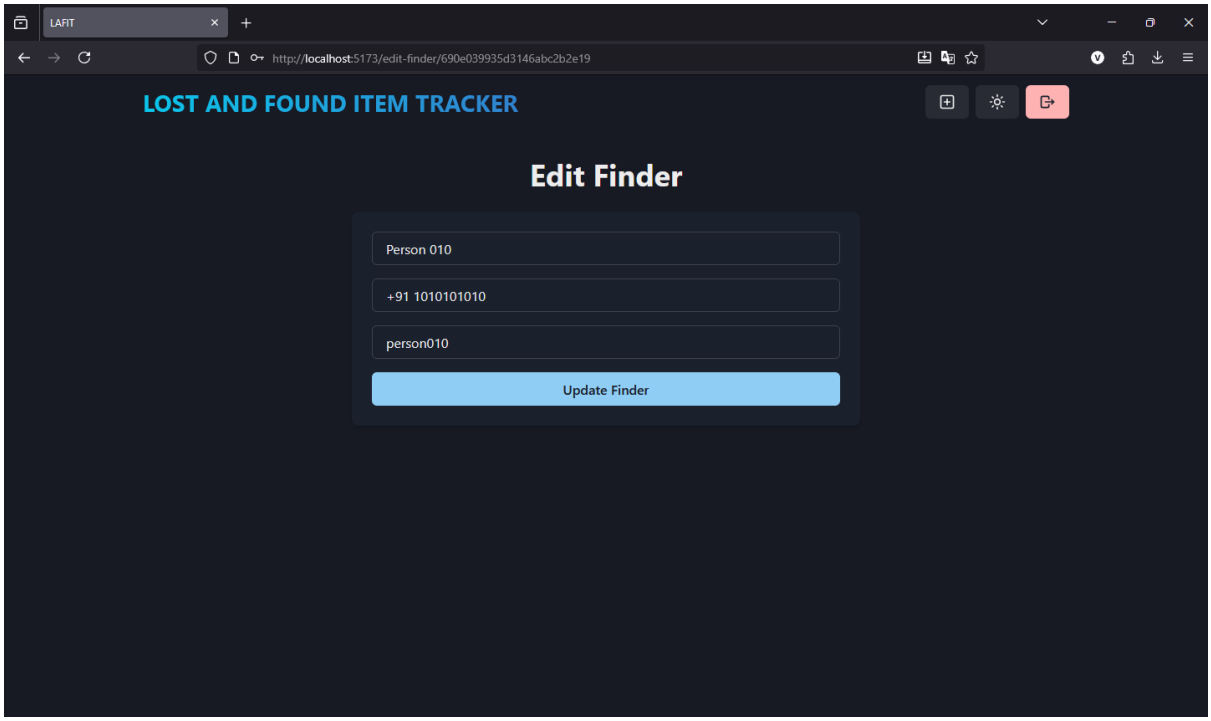

LAFIT
nezuko keychain - Google Sear
http://localhost:5173/create-item
LOST AND FOUND ITEM TRACKER
Create New Item
Name
Description (optional)
Found At (optional)
Image URL
Unclaimed
Search Finder by Username
Add Item
Success
Item created successfully

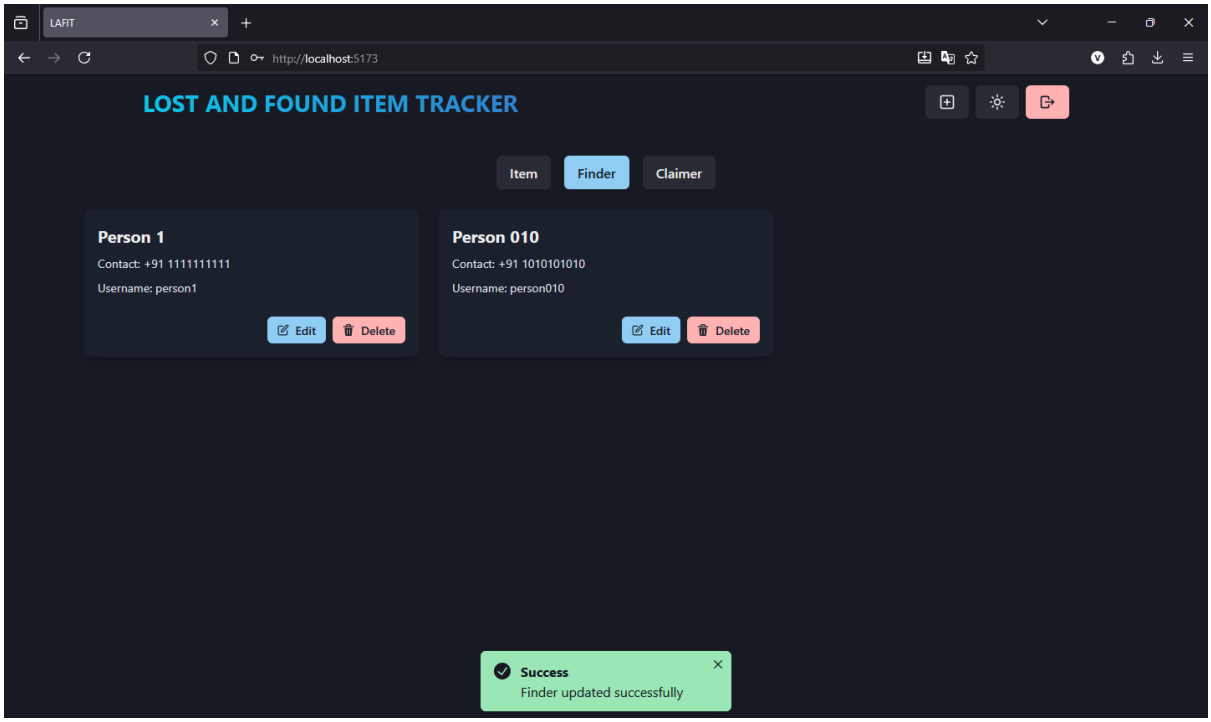

LAFIT
nezuko keychain - Google Sear
http://localhost:5173
LOST AND FOUND ITEM TRACKER
Item
Finder
Claimer
Retro Handheld
Description: Anbernic RG35XX H retro handheld
Date Submitted: 29/9/2025
Found At: AB-1 402
Finder: Person 1 (+91 1111111111)
Status: claimed
Claimer: Person 2 (+91 2222222222)
Edit
Delete
Keychain
Description: Nezuko from Demon Slayer
Date Submitted: 7/11/2025
Found At: AB-4 302
Finder: Person 10 (+91 1010101010)
Status: claimed
Claimer: Person 20 (+91 2020202020)
Edit
Delete

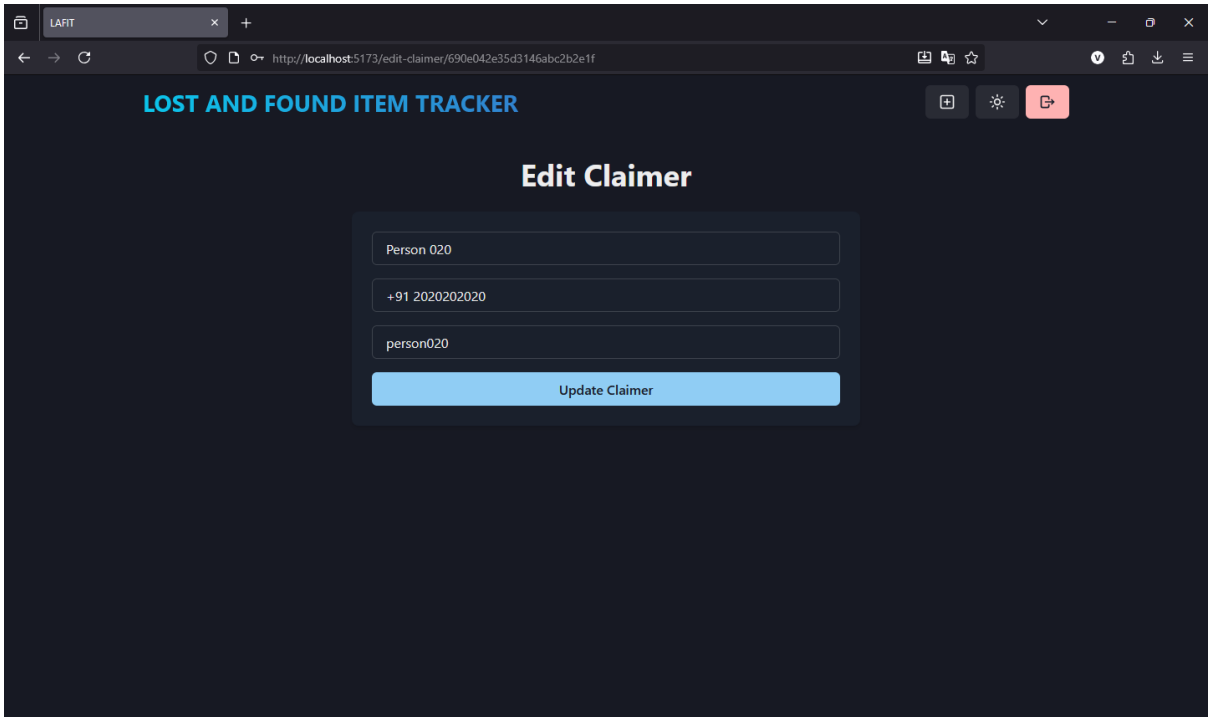
6. Editing of Items, Finders and Claimers:

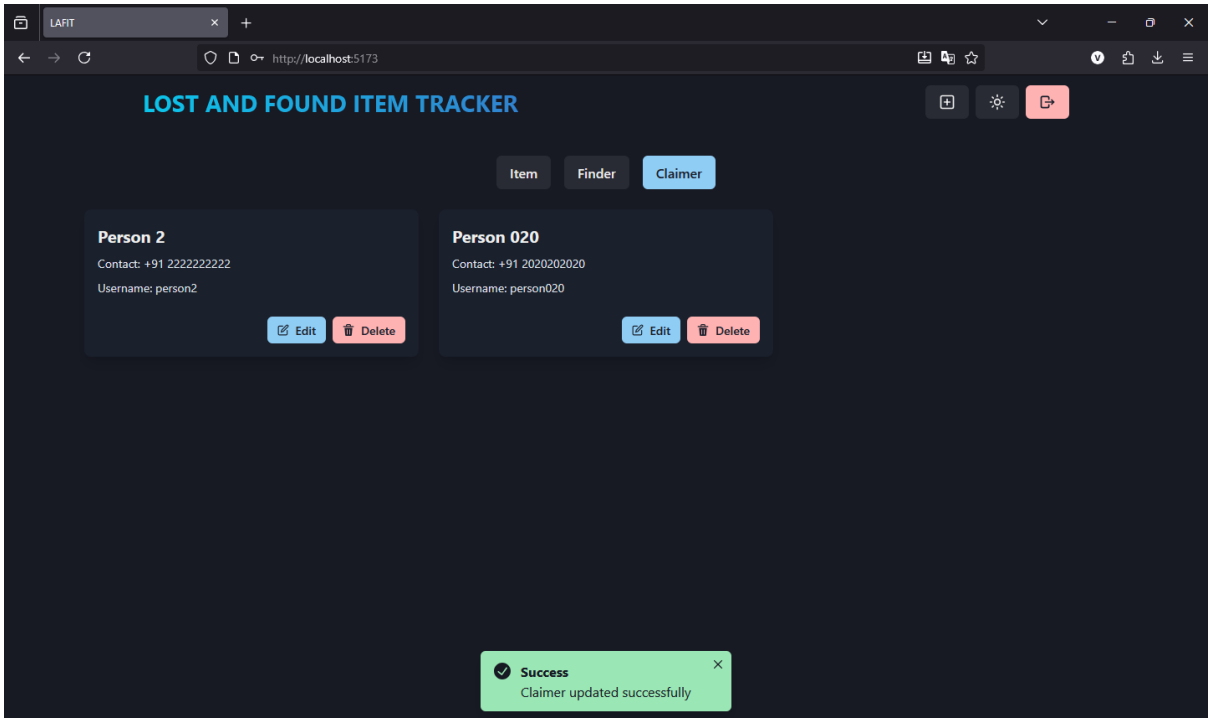


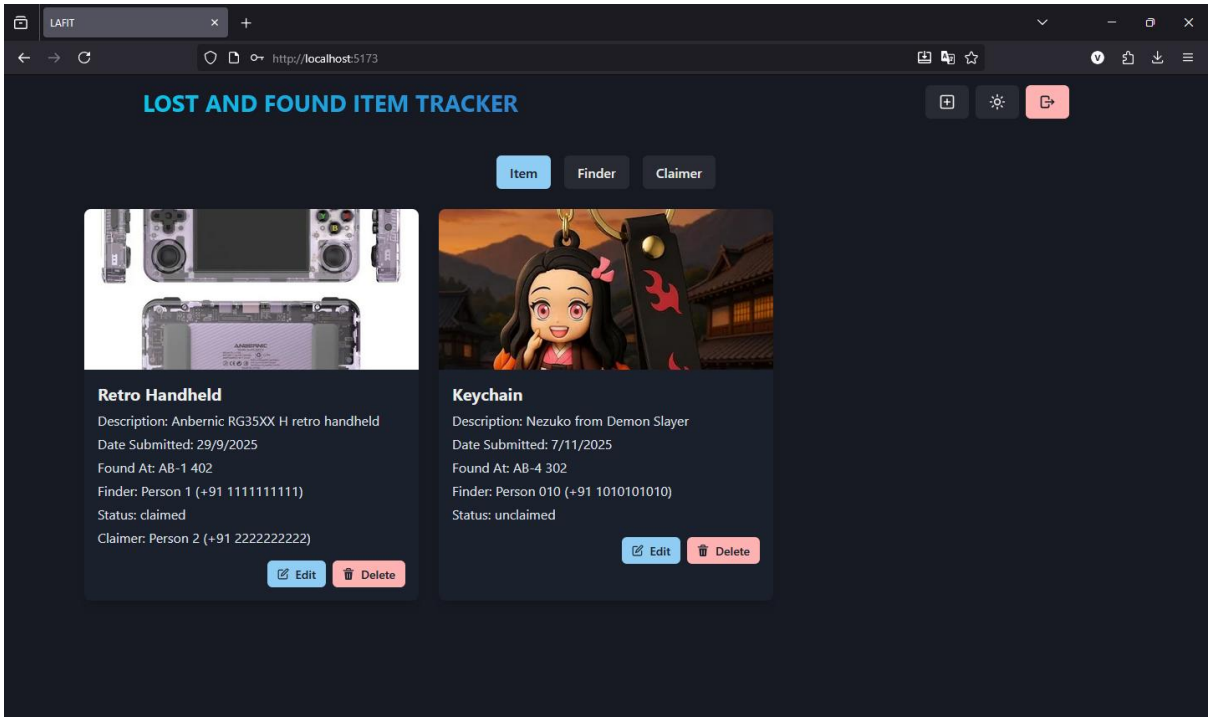



LAFIT
http://localhost:5173/edit-finder/690e039935d3146abc2b2e19
LOST AND FOUND ITEM TRACKER
Edit Finder
Person 010
+91 1010101010
person010
Update Finder

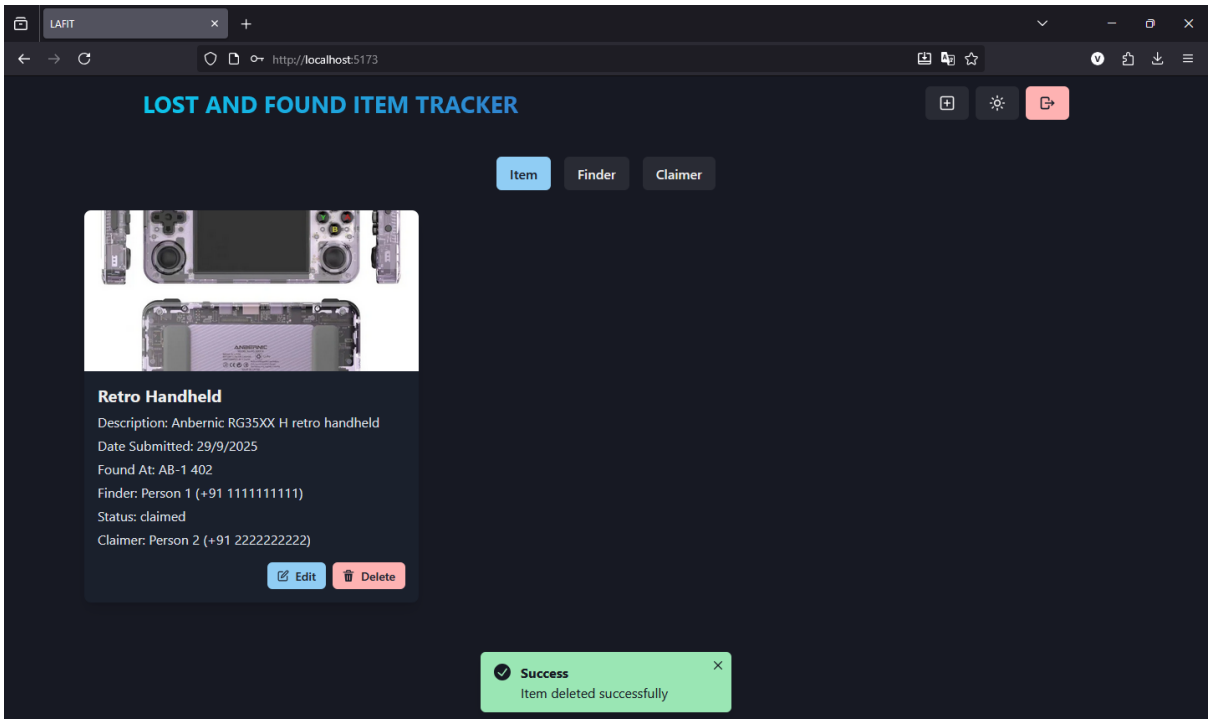

LAFIT
http://localhost:5173
LOST AND FOUND ITEM TRACKER
Item
Finder
Claimer
Person 1
Contact: +91 1111111111
Username: person1
Edit
Delete
Person 010
Contact: +91 1010101010
Username: person010
Edit
Delete
Success
Finder updated successfully

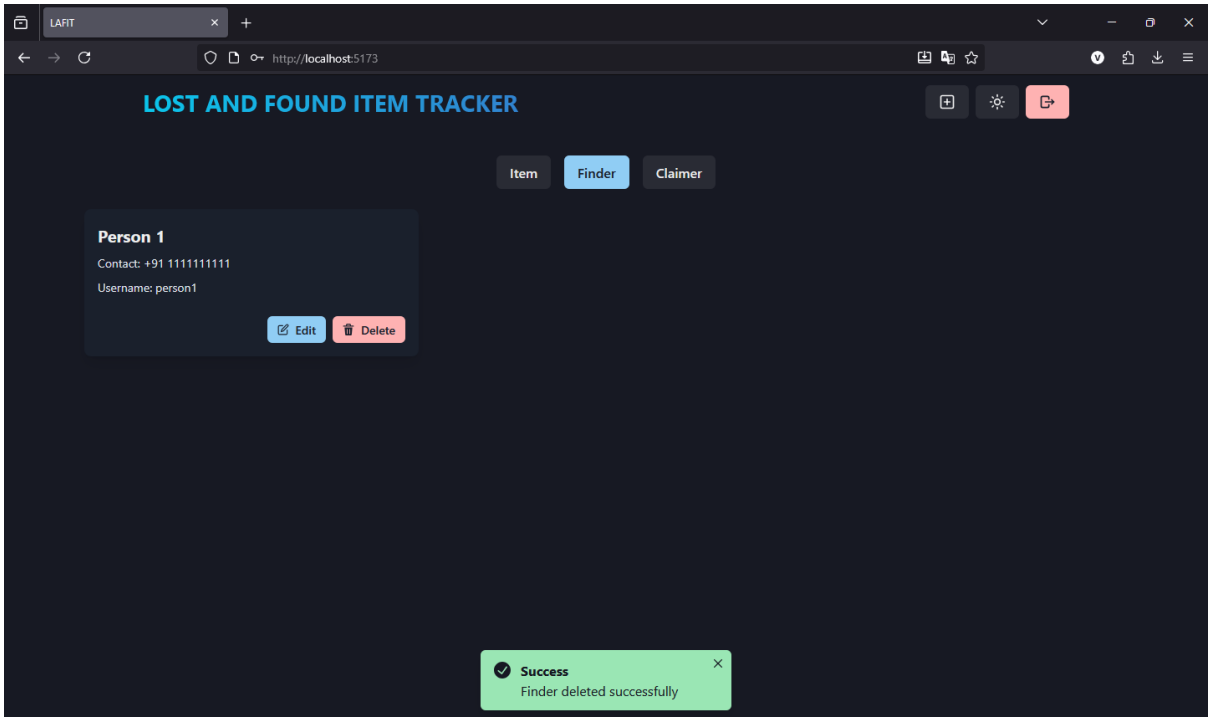

LAFIT
http://localhost:5173/edit-claimer/690e042e35d3146abc2b2e1f
LOST AND FOUND ITEM TRACKER
Edit Claimer
Person 020
+91 2020202020
person020
Update Claimer

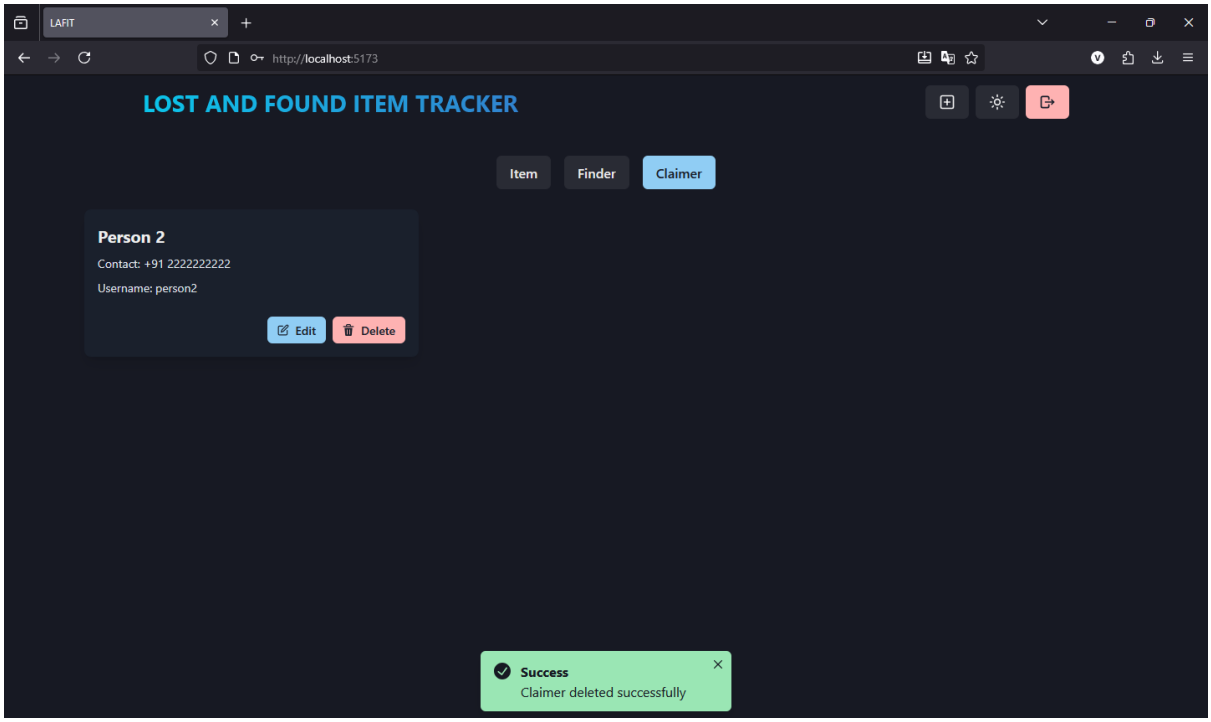

LAFIT
http://localhost:5173
LOST AND FOUND ITEM TRACKER
Item
Finder
Claimer
Person 2
Contact: +91 2222222222
Username: person2
Edit
Delete
Person 020
Contact: +91 2020202020
Username: person020
Edit
Delete
Success
Claimer updated successfully



7. Deletion of Items, Finders and Claimers:




LAFIT
http://localhost:5173
LOST AND FOUND ITEM TRACKER
Item
Finder
Claimer
Person 1
Contact: +91 1111111111
Username: person1
Edit
Delete
Success
Finder deleted successfully


LAFIT
http://localhost:5173
LOST AND FOUND ITEM TRACKER
Item
Finder
Claimer
Person 2
Contact: +91 2222222222
Username: person2
Edit
Delete
Success
Claimer deleted successfully

Tools and Technologies Used

1. Frontend - ReactJS
2. Backend - NodeJS
3. APIs - ExpressJS
4. Database - MongoDB
5. IDE - VSCode
6. Version Control - Git
7. Repository - GitHub