Lost Item Tracker App

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- ***Background/ Problem Statement***

This project is about lost item tracker device that how people found their lost item . But there is no security service available for the lost item.such as : At an airport, objects lost by both passengers and airport service staff are found on a daily basis. The reception and return of lost items has become compulsory task and its responsibility falls on the airport. Proper management of this activity improves the passenger assistance service and optimises the activity of personnel. This causes the people are not concern about lost item tracker device. This is a matter of concern now, how to solve this problem. Smartphones aren't cheap. Plus, we likely have sensitive data on them.Thankfully, locating a device can be easy.Free services such as Find My (for Apple products) and Find My Device (for Android phones and tablets) can help in a pinch. Should our phone become lost or stolen, we can remotely lock it if we don't have a passcode on it already; display a message, such as "Please call me for a reward"; wipe its data clean; or track it on an online map. But we need to set this up ahead of time.When we realize our phone is missing, we'll need to log in on another device or a web browser on a computer with the same account name and password as your phone.For tracking to work, the device will need to be turned on;

connected to the internet, either through a cellular carrier or Wi-Fi; and operating with at least some charge remaining in the battery. If all is set up correctly, we should see our phone's last known location.If our phone was stolen, never try to retrieve it on our own. Instead, contact police with any tracking information, such as the address where your device was located.Apple has high security system in their device. Apple has also released its own tiny trackers called AirTags designed to help iPhone owners locate lost stuff.Just like a Tile, an AirTag that's attached to a key chain, TV remote, purse, backpack or luggage tag lets us locate the item, within Apple's Find My app. we can also ask Siri to find your missing item, and the AirTag will play a sound if it's nearby.But unlike Tiles and Samsung Galaxy SmartTags , AirTags also use ultra-wideband technology to more precisely lead us to our item's location. If we're on an iPhone with a U1 chip — iPhone 11 family and newer — we'll see a directional arrow that points us to an AirTag's location and indicates how far away it is, in real time. our location data and history are never stored on the AirTag itself.Apple says, Now, here's where AirTags really get interesting: If we left our backpack, say, at a friend's house and out of Bluetooth range, the Find My network could help track it down. By leveraging the roughly 1 billion Apple devices around the globe, it can detect Bluetooth signals from an AirTag and relay the location back to us.Plus, we can enter an AirTag into Lost Mode in the Find My app and be notified when it has been located. If someone finds your stuff, they can tap it using their iPhone or any near field communication (NFC) capable device and be taken to a website that will display how to reach us, if we set it up. NFC-capable devices include most newer smartphones, smartwatches and tablets. we'll have to enable Location Services and Significant Locations: Go to Settings | Privacy | Location Services | System Services | Significant Locations. Next, we'll want to enable Show Parked Location by going to Settings | Maps | Show Parked Location.Make sure that our iPhone is paired to your vehicles

CarPlay or Bluetooth. If we can’t find your car, open Maps, tap the Search field, then choose Parked Car from the suggestions list. Tap Directions and choose Drive, Ride, Transit or Walk.For Android or iPhone users, Google Maps can do the trick by letting us save our parking location.Open the Google Maps app on our phone or tablet, and tap the blue dot that shows our location. Tap Set as parking location.our parking location will be saved in Google Maps until we remove it. we also can add notes about our car’s location, such as the spot number, and share our parking location with others.When we need to find our vehicle, open the Google Maps app, tap the search bar and select Parking location. On the bottom right, tap Directions.If we choose, we also can get notifications for parking information, such as where we have parked and for how long, which can be useful if we’ve been feeding a conventional meter for downtown street parking. Lost Item Tracker app provides us with the best lost and found experiences. Its never been easier to provide excellent service and decrease our workload. This tool helps users create a network of lost and found items digitally to help business manage these ouccurrences more efficiently. This system mainly build for out going person or an traveller who usually lost their phones, hand gadgets, keys and other things . We are using involves Dart in the front-end and involves MYSQL in the back-end in Our Lost Item Tracker System which is enables users to handle their own items or things using their devices. We used dart as programming language is based on the flutter framework. This system can be used from any platform.People have to more concern about their device.

- ***Importance of this problem:***

This system mainly build for out going person or an traveller who usually lost their phones, hand gadgets, keys and other things.

- ***Objective:***

  The objective of this project is about that how people found their lost item tracker system. By using this application user can add, update, delete, and easily0 search for an item. They can add the list of items that were lost or found with their details and inquiries. Here, the IDE used is Android Studio which is the official Integrated Development Environment (IDE) for Android app development.

- ***Proposed Solution:***

This system has to be more concious about satellites signal. It can be the reason of wrong information. It has be user friendly experience for user also need to be less lacking.

- ***Target User***

Mainly out going person and traveller are target user of this system also everyone who has a devise like phone or pc can use this system.

- ***Benefit of User***
- The user can keep track of their lost items.
- They can also look for the items in the system to check if they already found them or not.
- It’s easy to search for an item.

Project SRS

- **Introduction:**
- 1.1purpose- The purpose of this project is that people is more careful about their device.If they lost their device that how found their device.
- 1.2 Intended Use- The user can keep track of their lost items
- They can also look for the items in the system to check if they already found them or not.
- It's easy to search for an item.
- **Overall Description:**

2. Items can be searched by their-

-types
-area
-name

- ***2.1 Functionalities***

The system comprises 1 major module with their sub-modules as follows:

USER:

- Register
- Login
- Profile
- Change Password
- Locate Items

- Add/update/delete/view

- Search items

- Lost and Found

- ***2.2 System Description***

The system comprises 1 major module with their sub-modules as follows:

USER:

- **Register**
- **Login**
- **Profile**
- **Change Password**
- **Locate Items**
    - Add/update/delete/view
    - Search items
- **Lost and Found**
    - Search items

      1. My Items

      - List of my items that were lost or found
      - Details
      - Enquiries
      - Add a new Item

      2. Search

      - Search by type/name/area
      - Lost items details
      - Enquire
- ***3.System Requirements***

    I. Hardware Requirement

i. **Laptop or PC**
    - macOS Sierra and above (If Mac setup is required)
    - Windows 7 or higher
    - I3 processor system or higher
    - 8 GB RAM or higher
    - 100 GB ROM or higher

ii. **Android Phone (6.0 and above)**

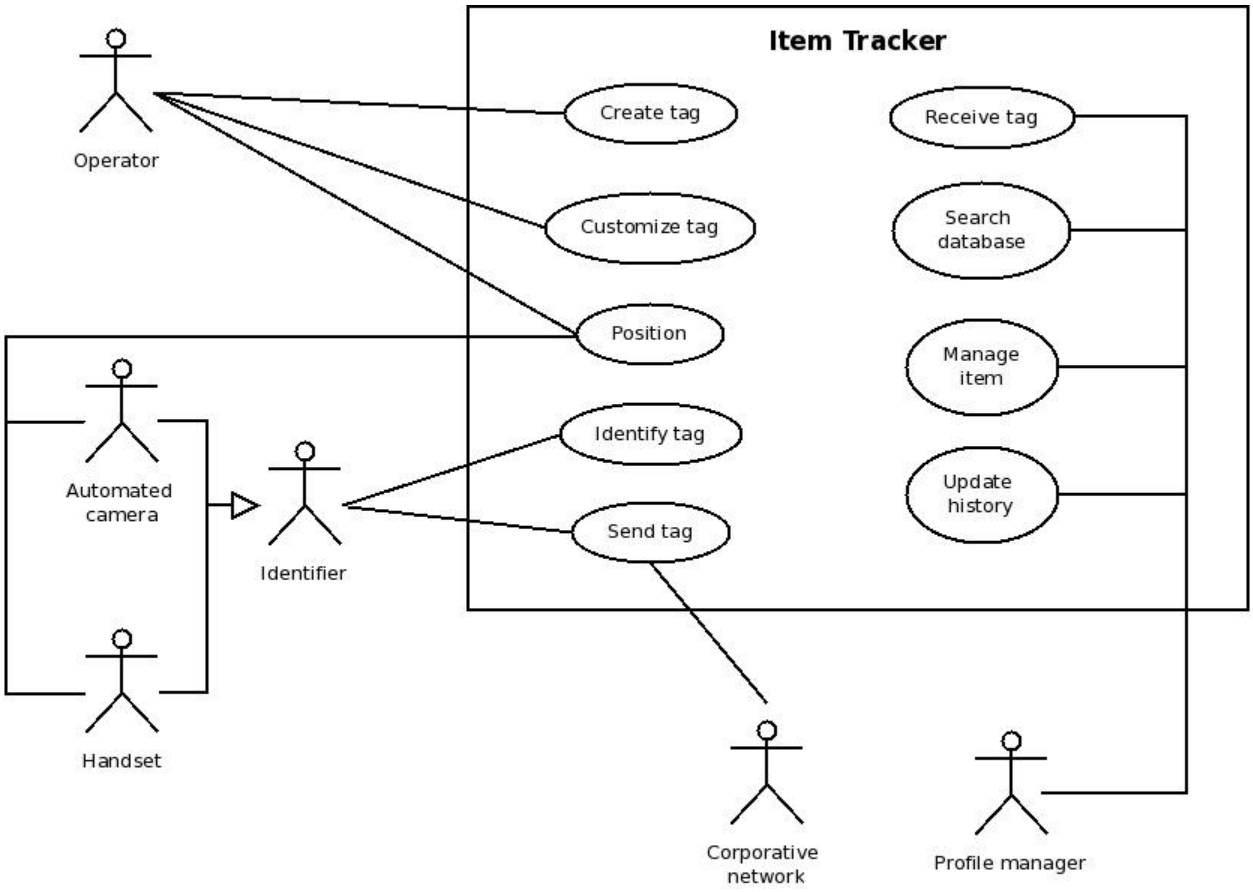
iii. **iPhone (iOS 9 and above) (If the iOS version needs to be checked)**

II. <u>Software Requirement</u>

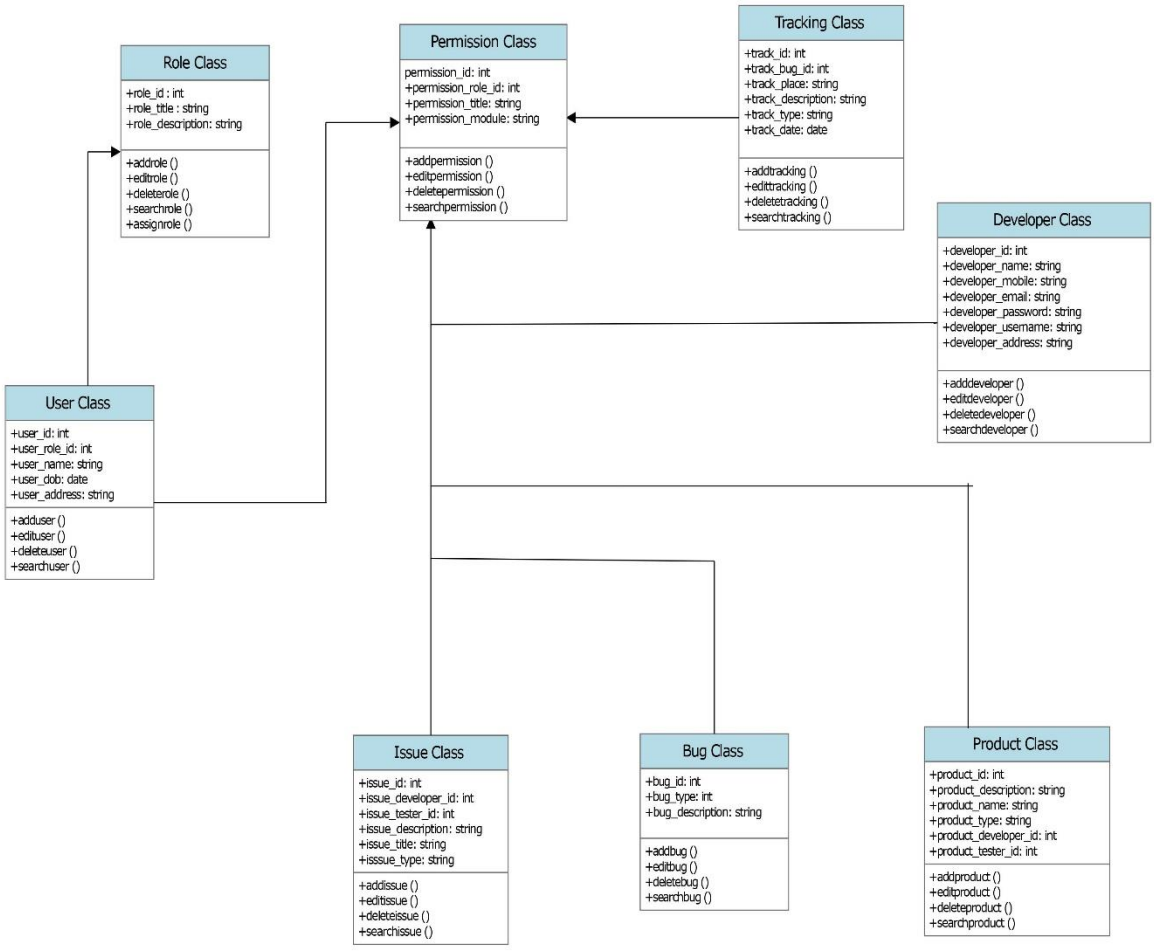
iv. **Laptop or PC**
    - Android Studio with Flutter Plugin
    - XCode (Latest version) (If the iOS version needs to be checked on Mac)
    - Azure Data Studio

- ***Diagram:***

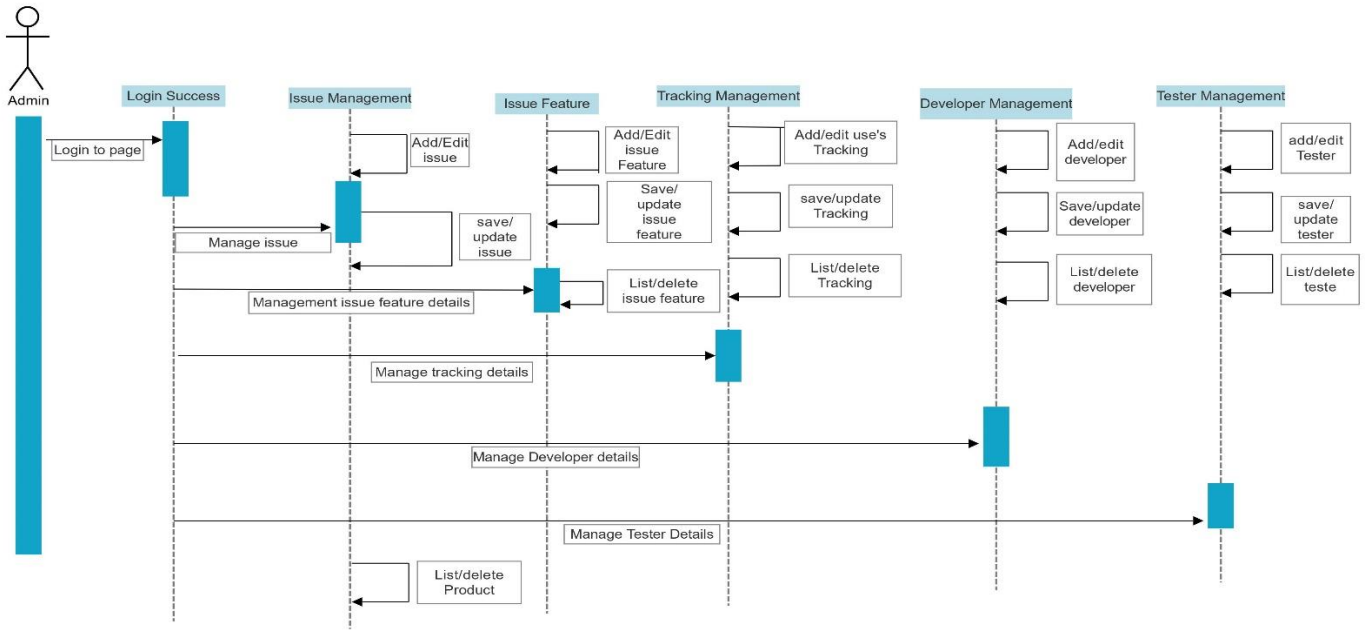
Use case:



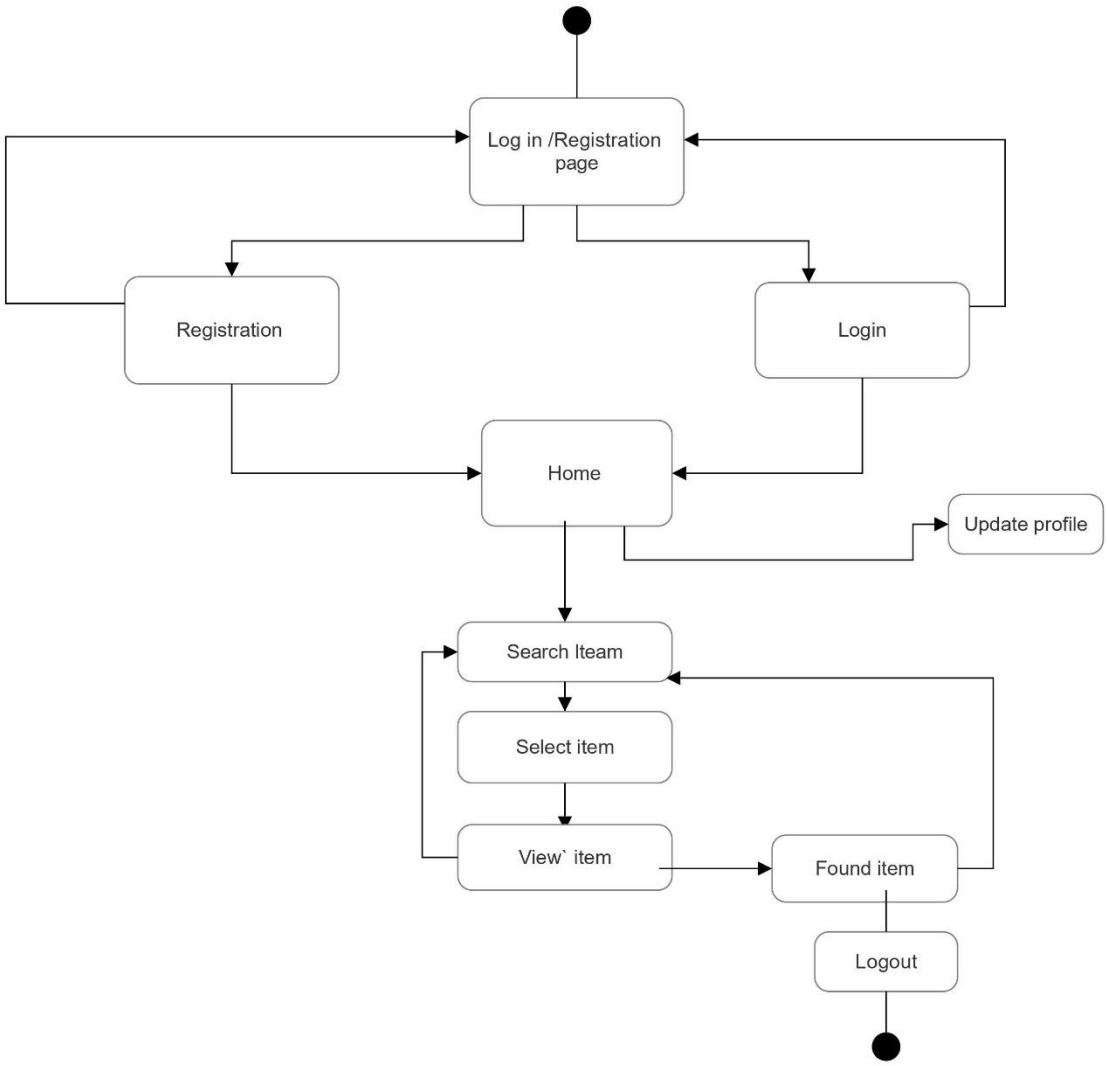
Class Diagram:



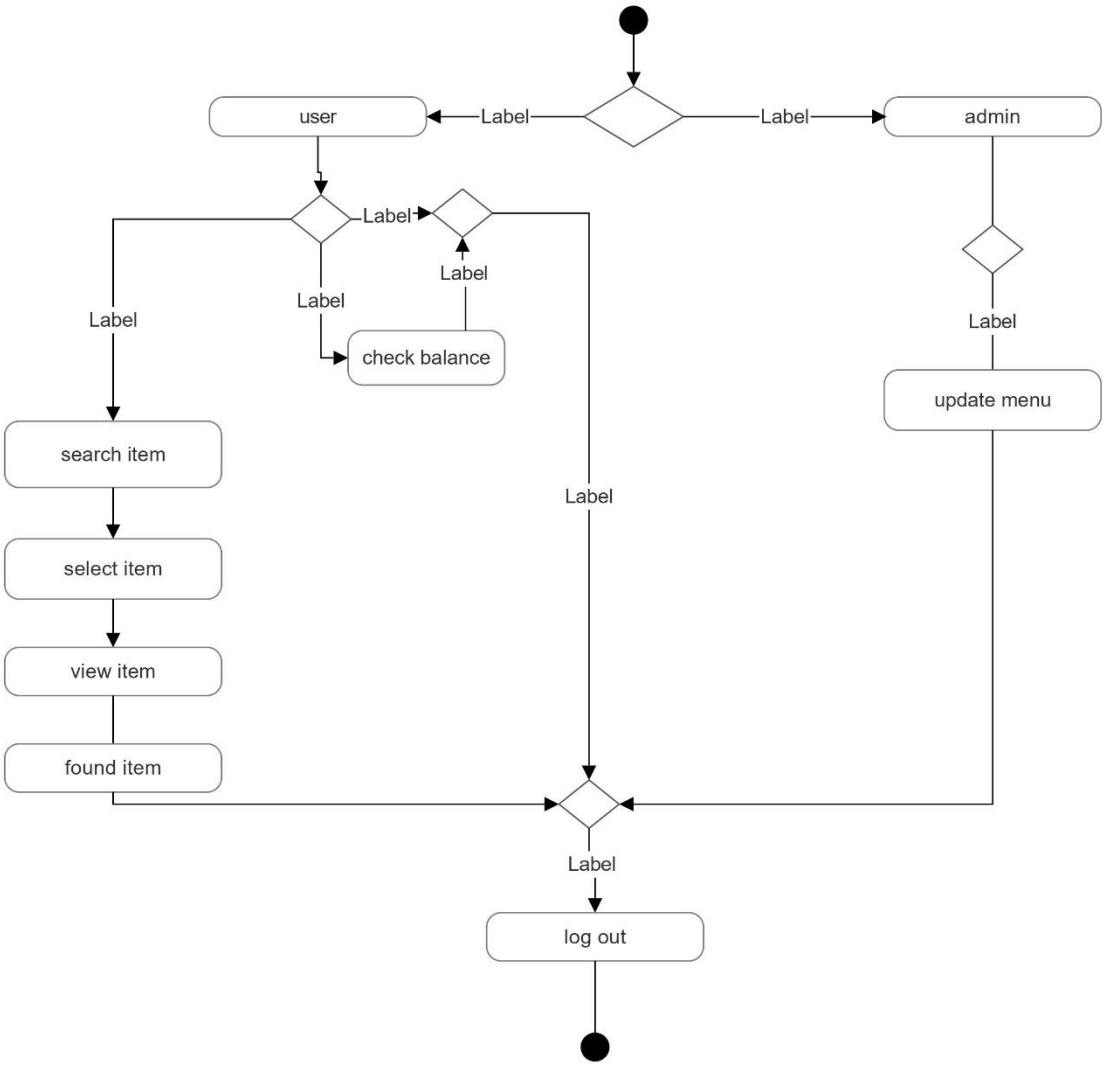
Sequence Diagram:



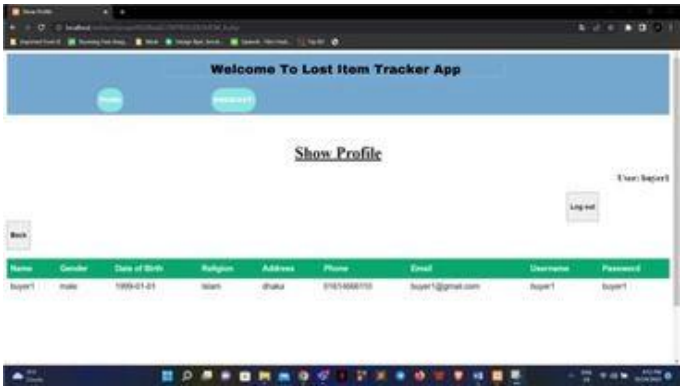
State chart Diagram:

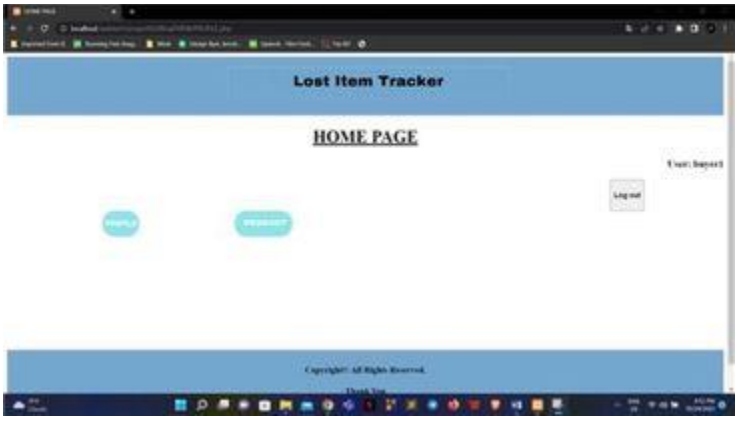


Activity Diagram:


user
Label
Label
admin
Label
Label
Label
Label
check balance
Label
update menu
search item
Label
select item
view item
found item
Label
log out

- **UI**





- **Model(SDLC):**

V-shaped Model for Lost Item Tracker App:

The V-Shaped model known as the verification and validation model. By using this model we can evolved every stage of our software. The verification process includes 4 phases which are requirement analysis, system design, architechure design and module design. In turn, corresponding to each verification stage is one validation step, respectively,

acceptance test design, system test design, intergration test design and unit test design. This model used for mid and large project with absolutely clear objective and requirements. Our project is about to find lost item. So we have to provide our users accurate location of lost item. Also our software have to be simple and straightforward. We are very concern about early detection of errors or problems. For all those reason we used the V-shaped model for our software.