Project Proposal

Objective

Using MongoDB, Express, React-Redux and Node (MERN) for an application called Lost and Found for Hotel.

Context

In computing, a web application or web app is a client–server software application which the client or user runs in a web browser. Web applications are getting popular these days as they can be accessed from anywhere using a web browser and the convenience of using a web browser as a client to update and maintain web applications without distributing and installing software. Common web applications include webmail, online retail sales, online auctions, wikis, instant messaging services and many other functions.

The major goal of this project is to help the front desk officer/ housekeeping supervisor or managers around the hotel with a web service to find guest's lost stuff more quickly. The application is an online lost and found web portal with an interactive user interface.

It is a user-friendly web application which is created using web programming languages connected to the database. The project is designed using a client-server model. The main features of the web application include an authentication, registration and login system, a lost and found listings page where the user can enter the information about the lost and found items and print required reports automatically. Keeping in mind some security issues, the users cannot delete any items. The reason was some users may delete the items just to mess around.

This privilege is given to the admin only. The application also allows the users to update the listed items if needed.

The 5W's

- **Who** – The front desk user, Housekeeping clerk, Security officer or officer in charge of the hotel who will use the Lost and Found Application.
- **What** – A single-page, responsive application built with React-Redux with routing, rich interactions, several interface views, and a polished user experience, and the complete server-side web application, including the server, business logic, and business layers of the application. It will consist of a well-designed REST API and architected database built using JavaScript, Node.js, Express, and MongoDB. The REST API will be accessed via commonly used HTTP methods like GET and POST. Similar methods (CRUD) will be used to retrieve data from database and store that data in a non-relational way.
- **When** – Users will be able to use app whenever they want to add, edit, delete and print information about different lost and found items information.
- **Where** – The app will be hosted online. It is responsive and can therefore be used anywhere and, on any device, giving users an equal experience.
- **Why** – The front desk user, Housekeeping clerk, Security officer or officer in charge of the hotel to be able to have fast feedback on the inquiry of the guest about their items left behind. Instantly print required reports such as Items to be released valuables, non-valuables and perishables, Items to be claim by guest and Items claimed by employee and guest.

Design Criteria

User Stories

- As a user, I want to be able to login as an admin to register users and limit the register or normal user from preventing them to delete records.
- As a user, I want to be able to create, update and delete Lost and found items.
- As a user, I want to be able to click a button that will go to another page for guest claiming stub and print it.

- As a user, I want to be able to Instantly print required reports such as Items to be released valuables, non-valuables and perishables, Items to be claim by guest and Items claimed by employee and guest.

Key Features

- App have a welcome view where users can log in if it's registered by the administrator.
- Once authenticated, the user should now see all the Lost and Found Items, administrator has the only one that has the privilege to delete a record while normal user can do anything except deleting record.
- Upon clicking add lost and found item the **Add Lost and Found** page will appear where user will input required values such as
  - Area/Location – where the items are left behind
  - Guest/Owner Name – name of the guest if it exists or just input unknown if it is not.
  - Valuable - items like Jewelry, mobile, wallets, laptops, iPad etc.
  - Non-valuable- items like pants, shirts, caps, shoes etc.
  - Perishable – fruits, candies, chocolates, water, sodas etc.
  - Finder – name of the employee or staff
  - Division – section of the employee or staff is assigned.
  - Submit Button - if all required input successfully inputted.
  - Go Back Button – if user change his/her mind
- Upon clicking edit button the **Edit Lost and Found** page will appear same input values as the add lost and found page the only difference is each valuable, non-valuable or perishable items has an input of the following
  - (Valuable, Non-Valuable and Perishable) Status – category
    - Unclaimed – if the guest called and he/she has a preferred date to pick up the items and didn't show up.
    - To be claim – guest called, the items is recorded and chosen a date for pick up.
    - Claim by guest – if the item is claimed by guest.
    - Claim by employee – If the item is claimed by employee that lapses the amount of time of the lost and found items are kept.
      - Valuable items – kept only for 6 months if unclaimed, it is rewarded to the finder
      - Non-valuable items – kept only for 3 months if unclaimed, it is rewarded to the finder

- Perishable items – kept only for 1 day if unclaimed, it is rewarder to the finder
- Upon clicking guest claiming button it will go to **Guest Claiming Stub** page where the user can print it. After printing it the user will go to edit page and update the status to claimed by guest.
- Allow users to delete lost and found item only if he/she is the admin.
- Allow users to print reports such as Items to be released valuables, non-valuables and perishables, Items to be claim by guest and Items claimed by employee and guest.
- Show messages to the users to guide them and automatically disappear after 5 seconds.

Reasons for wanting to work on this project

To replace the old method of manual handwritten lost and found books and to cater the urgent needs to have a standardized, centralized and an efficient way dealing with lost property.

As you are aware that lost property is very valuable for its owner and must be dealt with extreme care, most of the people using a book to document lost property, with no memory, and if the book is lost or damaged then there is no back up records of any of the properties in the possession.