

Lost and Found Portal

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Features, Challenges and Solutions :-

- Creating **Lost and Found Portal** will be extremely helpful in organising the process of finding lost items and is also necessary for such a huge institute like IIT Bombay.
- Using this portal we may register items found in institute premises via portal hence it is one stop solution.
- To avoid spam, entries, claims from unknown entities we may integrate IITB LDAP-ID Database thus only IITB id's have access to this portal.
- While registration of Found item with unknown owner its mandatory to include item images, Geotag of location it was discovered first, date, time and description(optional) also we have defined various categories to make process of finding smooth.
- Hence to enable Geotag and location verification we have to integrate Google Maps API.
- For auto item category recognition we have to develop an AI based scanner and integrate with application.
- Owner of lost item can check database of lost items and also details provided by founder to verify and hence can claim item.
- To establish connection between owner and founder we have to integrate chat option to the portal and the we can reduce the confusions during the process.

Language or Framework (Front-end frameworks) :-

Top front-end framework I came across were

- Angular
- React
- Vue
- Ember

But I felt React Framework comfortable with, as I tried React framework to develop front-end UI of basic music player application.

React can run massive web apps, and both have strong communities where developers can share information. React leverages JavaScript extensively. Facebook, along with individual contributors and other companies, maintain React.

➤ **Pros**

Some very large companies—including Facebook, Netflix, Dropbox, Airbnb, and Reddit—use React as their front-end framework. These sites receive millions of views per day. React has proved itself to be able to scale and meet the needs of the most demanding web apps.

Additionally, the skills you learn for React also apply to ReactNative, a framework that developers can use to build native applications that run on the iOS and Android mobile operating systems.

➤ **Cons**

React is not easy to learn. The entire architecture is built in JavaScript, so you must be an experienced developer to start with React.

(I have designed UI prototype for Lost and Found Portal using Figma)

Link-

"<https://www.figma.com/community/file/1085132617078456878/Lost-and-Found-Portal>"