**LOST–FOUND PORTAL**

**About**

This part of the Application would provide a platform to view all the items lost or found inside the Institute Campus. A user would be able to perform the following operations inside the Portal –

1. View the List of Lost Items
2. View the List of Found Items

The Users would be provided the facility of adding a new Item in the list of items lost, if they have lost an item, by providing the following details –

1. Name of Item
2. Item Owner
3. Photo (Optional)
4. Time of Missing of Item
5. Place where the Item was last seen
6. Item Description

An item object would be created with the above details and this item would be added in the list of Lost Items. The user would also have the option of removing the item from the list.

Any user, if founds an item whose details matches to any List Item of the Portal, would have the option to contact the Item Owner and the return the item to it. The Item Owner, on finding his belongings, can then mark the Item as found and remove it from the list of Lost Items.

If any user finds an item, he would be provided the facility to add a new item in the list of found items by providing the following details –

1. Name of Item
2. Photo (Optional)
3. Time when Item was found
4. Place where the Item was found
5. Item Description

The Owner of the item can then claim the Item by selecting the ‘Claim’ Option of the Item Found. This would notify the user who found the item and then he could contact the person for return of the item.

**ITEM CLASS**

A User-Defined Class named ‘Item’ would be used to store the details of a particular item being lost or found.

The Class ‘Item’ would contain the following variables –

1. Item Type (Lost/Found) String
2. Item Name String
3. Item Photo Uri
4. Item Owner String (U-ID)
5. Item Founder String (U-ID)
6. Place, last Seen LatLong

**USE OF FIREBASE**

Following features of Firebase Console would be required in the development and use of the Portal –

1. **Firebase Authentication**
   1. This would be required to authenticate the Current User and check whether the User belongs to the Institute or not.
   2. It would also be required to identify the name and contact details of the User who found a Lost Item, or the one whose item is lost.
   3. The ‘U-ID’ of the users would be used to fill up the details regrading user information of the Item.
2. **Firebase Realtime Database**
   1. This would be used to store the details of the Items being lost or found.