CSE 400 : Software Development Project IV

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1. Project Title: "Harabo Naa" (Lost and Found App)

2. Abstract:

Losing personal belongings is a common problem, and finding them can be challenging. This project proposes the development of a Lost and Found App that provides a centralized platform to help individuals locate lost items and return found belongings to their rightful owners. By integrating AI-powered matching, geolocation tracking, and secure communication features, the app will simplify the process of item recovery. The system will benefit the general public, organizations, and law enforcement agencies by improving efficiency and trust in lost-and-found operations.

Features:

1. Authentication (Firebase Authentication)

- User Sign-up (Email & Google Login)
- User Login & Logout

2. Post Lost Items (Firebase Firestore & Storage)

- Users can upload details (item name, description, location, date, image).
- The post gets listed in the "Lost" section.

3. Post Found Items

- Users can report items they found.
- Items get listed in the "Found" section.

4. Search & Filter

- Search lost and found items by category, date, and location.

5. Claiming Process

- If someone finds a lost item, they can contact the owner via in-app chat (Firebase Realtime Database).

6. Notifications (Firebase Cloud Messaging - FCM)

- Users get notified when someone posts a similar lost or found item.

7. User Profile & History

- Users can track their lost and found item posts.

8. Map Integration (Google Maps API)

- Users can pin the location where they lost/found an item.

1. Project Title: "Go Ball" Football Turf Management System

2. Abstract

Managing football turf bookings and operations manually can be time-consuming and inefficient. The **Football Turf Stadium Management System** is a mobile application designed to simplify the process of **turf reservations, user management, payment handling, and scheduling** through a **seamless and intuitive interface**. The system will be built using **Java and Android Studio**, with **Firebase** for authentication, database management, and real-time updates. This application aims to **enhance convenience for both users and turf owners** by offering an easy-to-use platform for booking football turf, handling payments, and monitoring availability.

Features

1. **User Authentication (Firebase Authentication)**
    - **Sign Up/Login**: Allow users to register and log in using email or Google accounts.
    - **Profile Management**: Enable users to manage their profiles, including personal details and preferences.

2. **Turf Listings**
   - **Turf Information**: Display details such as location, available time slots, pricing, and images.
   - **Search and Filter**: Allow users to search for turfs based on location, availability, and other criteria.
3. **Booking System**
   - **Real-Time Availability**: Show up-to-date availability of each turf.
   - **Booking Confirmation**: Provide instant booking confirmations and receipts.
4. **Payment Integration**
   - **Secure Payments**: Integrate payment gateways to handle transactions securely.
   - **Transaction History**: Allow users to view their past bookings and payments.
5. **Notifications (Firebase Cloud Messaging)**
   - **Booking Reminders**: Send reminders for upcoming bookings.
   - **Promotional Offers**: Notify users about special offers or discounts.
6. **Admin Panel for Turf Owners**
   - **Manage Bookings**: View and manage all bookings.
   - **Analytics**: Access reports on bookings, revenue, and user engagement.