**Project Title**: CISC Calendar @CMU Application  
**Project Description**:

The **CISC Calendar System** is a mobile application designed to provide a unified calendar interface for CMU-CISC students, faculty, and organization officers. It consolidates schedules from various sources within the college, including academic events, student organization activities, and official university announcements. This ensures that all users stay updated with time-sensitive matters and helps prevent scheduling conflicts.

**Configuration**

* **IDE:** Android Studio Meerkat 2024.x.x
* **Programming Language:** Java 8.x – 17.x
* **Minimum SDK:** API 24 (Android 7.0 – Nougat)
* **Target SDK:** API 34+ (Android 14.0) — Future-Proof Standard

**Basic General Flow**

Sign Up → Sign In → View Calendar → Filter by Event Type → Add Personal Reminders → Log Out

**Requirements**

**1. Calendar Management**

* Consolidates schedules from multiple sources within the college.
* Displays academic events, organization activities, and official announcements.
* Supports event filtering and reminders for students and faculty.

**2. User Roles**

* **Student:** View calendar, filter events, and set personal reminders.
* **Faculty:** Track official dates and manage class events.
* **Organization Officer:** Monitor organization events and avoid conflicts.
* **Admin:** Encode college-wide events, manage calendar layers, and oversee system scheduling.

**3. Real-Time Updates**

* Any changes to college events or schedules propagate instantly across all users via Firebase.

**Entities**

**1. Student**

* Views upcoming classes, events, and deadlines
* Sets reminders for important dates

**2. Faculty**

* Tracks academic dates and class schedules
* Receives notifications for schedule updates

**3. Organization Officer**

* Monitors approved event dates
* Ensures events do not conflict with other activities

**4. Admin**

* Encodes college-wide events
* Supervises calendar layering and system updates

**System Architecture Overview**

|  |  |  |
| --- | --- | --- |
| **Layer** | **Stack / Tool** | **Notes** |
| **Language** | Java | |  | | --- | |  |  |  | | --- | | Used for application logic | |
| **Database** | Firebase | Database |
| **Prototype** | Figma | |  | | --- | |  |  |  | | --- | | UI/UX Mockup | |
| **IDE** | Android Studio Meerkat 2024 | Development environment |