Project Proposal: TimeCast: Forecast Your Schedule

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This app helps the user organize their schedules via day, week, and month views. The application provides task tracking, reminders, and notification of conflicting schedules. It helps the user look at weather forecasts and send reminders. A dark mode for use in different light environments. Excellent for students, working professionals, and anyone who wishes to be well organized.

Objectives

- Develop an intuitive calendar application that allows users to efficiently manage their schedules through day, week, and month views.
- Support task, activity, and subject management with reminders and conflict detection for overlapping events.
- Integrate real-time weather forecasts to help users plan outdoor activities and provide customizable notifications.
- Include a dark mode feature will enhance accessibility, ensuring a user-friendly experience across devices.

User Stories

- **As a user,** I want to create and customize my timetable so that I can organize my schedule efficiently.
- **As a user,** I want to view my timetable in daily, weekly, and monthly formats so that I can plan accordingly.
- **As a user,** I want to add, edit, and delete events in my schedule so that I can keep it up to date.
- **As a user,** I want to drag and drop events within my timetable so that I can easily rearrange them.

- **As a user**, I want to add events with descriptions, locations, and due dates so that I can manage my commitments.
- **As a user**, I want to categorize events, tasks and subjects so that I can keep my schedule organized.
- **As a user**, I want the system to notify me if my schedule is overlapping events so that I can resolve conflicts.
- **As a user**, I want to receive alerts if the weather might affect my scheduled outdoor activities so that I can reschedule if necessary.

- **As a user**, I want to manually set my location so that I can check the weather for different places.
- **As a user**, I want multiple reminder options so that I can plan ahead.
- **As a user**, I want to enable dark mode so that I can reduce eye strain in low-light environments.
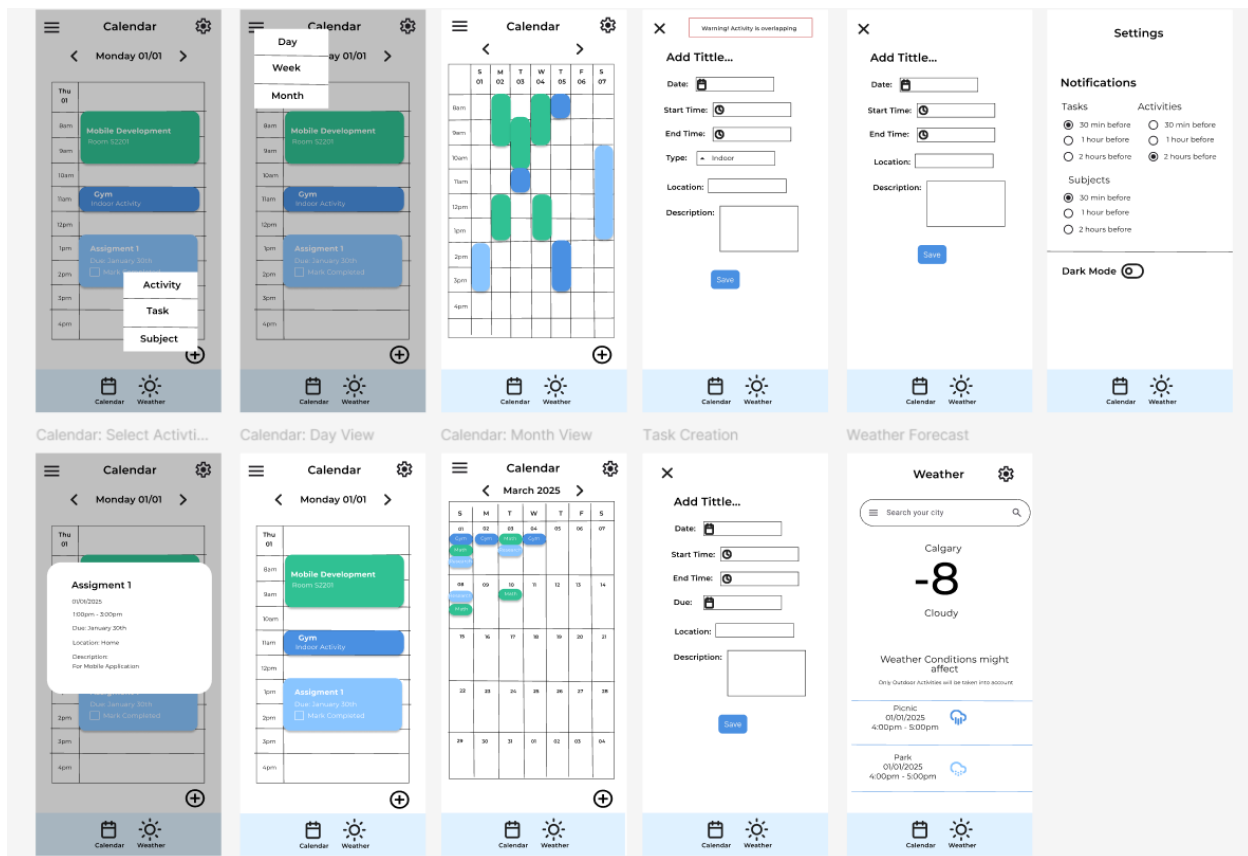
Proposed Features

1. User-Friendly Timetable Setup

   - Users can create and customize their timetable by adding subjects, tasks, or events.
   - Supports multiple timetable views: daily, weekly, and monthly.
   - Drag-and-drop functionality for easy rearrangement of events.

2. Event Management and Scheduling

   - Users can assign events, such as classes, meetings, or personal tasks, to specific time slots.
   - Option to add event descriptions, locations, due date for better organization.

3. Overlapping Time Slot Detection

   - Automatically checks for scheduling conflicts.
   - Provides alerts when two or more events overlap, allowing users to resolve conflicts.

4. Reminder and Notification System

   - Customizable notifications for upcoming events with multiple reminder options.

5. Weather Forecast Integration

   - Incorporates a weather API to display forecasts for scheduled events.

- Alerts users about weather conditions that might affect outdoor activities.

- Provides location-based weather updates.

6. Dark Mode

- Provides dark mode for better visibility in low-light conditions.

Wireframe

Calendar: Select Activti... | Calendar: Day View | Calendar: Month View | Task Creation | Weather Forecast

https://www.figma.com/design/DVraLm6MWUGz7HS8zY8RPs/Time-Table-Layouts?node-id=0-1&t=cdlBLsR54H6E56oM-1

Technology Stack

- Java for coding.

- Android Studio for development.

- OpenWeatherMap API