

COLLEGE CODE:[8223]

COLLEGE NAME:[vandayar engineering college]

DEPARTMENT:[Computer science and engineering]

STUDENT NM-ID :[009FFECB0BAC1BA90ED4F5012F59B1C4]

ROLL NO:[822323104004]

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Phase-1

TECHNOLOGY PROJECT NAME: Event Scheduling App

SUBMITTED BY,

NAME:[BHUVANESHWARI.M]

MOBILE NO:[6384192872]

1.Problem Statement

- People and organizations often face difficulties in managing and coordinating events, meetings, and schedules. Existing solutions like generic calendars are limited in collaboration, conflict detection, and personalized event management.
- A dedicated Event Scheduling App is needed to provide centralized event tracking, conflict-free scheduling, collaboration tools, and timely reminders to improve efficiency and reduce scheduling errors.
- Create, edit, and manage events seamlessly.
- Send and track invitations with RSVP support.
- View events in a clear calendar layout.
- Receive timely notifications and reminders.
- Avoid scheduling conflicts with smart conflict detection.

2.Users And Stockholders

Users:

- Students – to manage classes, exams, project deadlines, and personal events.
- Working professionals – to schedule meetings, interviews, and personal commitments.
- Event organizers – to coordinate venues, participants, and timelines.
- General users – to track birthdays, appointments, and social

Stakeholders:

- End users (primary beneficiaries).
- Organizations/companies using the app for team scheduling.
- Developers/product team maintaining and upgrading the app.
- Investors/business owners seeking revenue models

3.User Stories

- **As a student, I want to create events for my classes and exams so that I never miss important deadlines.**
- **As a professional, I want to share my availability so my colleagues can book meetings without conflict.**
- **As an event organizer, I want to invite multiple participants to an event and get confirmations so that I can finalize the schedule.**

4.MVP Features

- **Core Event Management**
- **Create, edit, and delete events.**
- **Categorize events (work, personal, academic, etc.).**
- **Reminders & Notifications**
- **Push notifications and alerts before events.**
- **Conflict Detection**
- **Prevent double-booking of overlapping events.**
- **Collaborative Scheduling**
- **Invite participants to events.**
- **Allow participants to confirm availability.**
- **Cross-Platform Access**
- **Mobile app (Android/iOS).**
- **Web access with cloud sync.**
- **Basic Search & Filters**

5.WireFrames/API EndPoint

WireFrames:

a.Login / Signup Screen

- Email/Phone + Password
- Social Login (Optional)

b.Dashboard / Home

- Upcoming events list
- Button: “Create Event”

C.Create Event Screen

- Event Title
- Date & Time (Start/End)
- Location (manual entry / map)
- Invite participants (email/contacts)
- Save/Cancel

d.Event Details Screen

- Title, description, date, time, location
- Participant list
- RSVP (Yes/No/Maybe)
- Edit/Delete (if owner)

e. Calendar View

- Month/Week/Day view
- Events shown in slots

f. Notifications Screen

- Reminders for upcoming events
- Invites pending response

API EndPoint

a.Auth

- POST /auth/signup → Register new user
- POST /auth/login → Login and get token
- POST /auth/logout → Logout

b.Users

- **GET /users/:id → Get user profile**
- **PUT /users/:id → Update user profile**

c.Events

- **POST /events → Create new event**
- **GET /events → Get all events (with filters: date, user)**
- **GET /events/:id → Get event details**
- **PUT /events/:id → Update event**
- **DELETE /events/:id → Delete event**

d.Invites & RSVP

- **POST /events/:id/invite → Send invites to users**
- **POST /events/:id/rsvp → Respond to invite (Yes/No/Maybe)**
- **GET /events/:id/attendees → List of attendees**

e.Notifications

- **GET /notifications → List notifications**
- **PUT /notifications/:id/read**

6.Acceptance Criteria

1. User Registration & Authentication

- **Users must be able to register using email/phone/social logins.**
- **Users must receive confirmation after successful registration.**
- **Users must be able to log in and log out securely.**
- **Password reset and profile management must be available.**

2. Event Creation

- **Users must be able to create an event with title, description, date, time, and location.**
- **Event organizers must be able to add participants/invitees.**
- **Event details must be editable before the event starts.**
- **Event creation should confirm with a success message.**

3. Event Management

- **Users must be able to view a list of upcoming and past events.**
- **Users must be able to search/filter events by date, type, or organizer.**
- **Users must be able to join/leave an event if permissions allow.**
- **Notifications/reminders must be sent before the event starts.**

4. Calendar & Scheduling

- The app must display events in daily, weekly, and monthly views.
- Events must not overlap for the same organizer unless allowed.
- Time-zone handling must be accurate.

5. Invitations & RSVP

- Organizers must be able to send invitations to participants.
- Invitees must be able to accept, reject, or mark “maybe.”
- RSVP status must be visible to the organizer.

6. Notifications & Reminders

- Users must receive push/email notifications for new invites.
- Users must get reminders 1 day and 1 hour before the event.
- Organizers must get notifications when someone responds to an invite.

7. Security & Permissions

- Only organizers can edit or delete their events.
- Participants can only modify their RSVP status.
- Data must be stored securely and comply with privacy standards.