BANNARI AMMAN INSTITUTE OF TECHNOLOGY
An Autonomous Institution Affiliated to Anna University - Chennai, Accredited by NAAC with A+ Grade
Sathyamangalam - 638401 Erode District, Tamil Nadu, India

Stay Ahead

Software Requirement Specification

Name : **VIVITHA M**

Roll No : **7376221CS352**

Seat No : **80**

Project Id : **40**

Project title : **Group Discussion Slot Booking System**

Technology Stack:

Frontend	HTML, CSS, Javascript
Backend	Python Django
Database	PostgreSQL
API	OpenAPI

Stages:

Stage 1	Planning and Requirement Gathering
Stage 2	Design and UI/UX Prototyping
Stage 3	Database design and implementation
Stage 4	Backend development
Stage 5	Integration and Testing

1) Problem Statement:

Design and develop an online portal for Group Discussion (GD) bookings to facilitate efficient scheduling and management of GD sessions which includes all the events like mock self-introduction, mock group discussion and mock interview. The portal should allow users to browse available GD slots, book their preferred slots, and receive timely notifications.

Additionally, administrators should have access to an admin panel for managing GD sessions, including adding new sessions, updating session details, and viewing booking information. The system should prioritize user experience, security, and scalability to accommodate a growing user base and increasing demand for GD sessions.

1.1. Problems in Manual scheduling :

Time-Consuming: It takes a lot of time to figure out who gets which slot for Group Discussion sessions because it's all done by hand.
Easy to Make Mistakes: Since it's all done manually, it's easy to make mistakes like accidentally giving two people the same slot or not giving people the slots they wanted.
Limited Visibility: Without a proper system, it's hard to keep track of who wants which slot and which slots are still available.
Communication Problems: Trying to sort out slots over email or phone can lead to misunderstandings and confusion.
Scalability Issues: As more people join and more sessions happen, it gets even harder to keep track of everything and make sure everyone gets a fair slot.
Difficulty in Rescheduling: If someone cancels or something changes, it's tricky to shuffle things around and make sure everything still works smoothly.

2. Project-Overview:

2.1. Purpose:

The main purpose of this project is to create an **online portal for Group Discussion (GD)** bookings, aiming to streamline the process of scheduling GD sessions and managing participant slots efficiently. This system will allow users to book slots for attending group discussions offered by an organization. Additionally, it keeps everyone's information safe and works well even as more people join in.

2.2. Scope:

The Group Discussion Slot Booking System will provide the following key features:

- User registration and authentication
- Creating and managing slots(for admins)
- Booking discussion slots(for users)
- Notification system for slot booking confirmation and reminders
- Booked/Not booked details for admins
- Showing remarks for users

2.3. Factors:

- Prioritize user experience (UX) for intuitive interaction.
- Implement robust authentication and authorization mechanisms.
- Design for scalability to handle increasing user and slot demands.
- Integrate with email services for sending notifications.

2.4. Dependencies:

- Rely on third-party APIs for functionalities like email notifications.
- Depend on a reliable database service provider (MySQL).

3. Functional Requirements:

3.1. Users:

- Users should be able to login using their college email Ids.
- They should be able to view their event and book their preferred slots.
- After booking, an email notification should be sent to them.
- After completion of the event, they should be able to view their remarks.

3.2. Admins:

1. Admin should be able to login using their college mailId.
2. After logging in, they should be able to view the dashboard which shows events conducted per batch.
3. Afterwards, they should be redirected to the events page and choose their preferred event(self-introduction, group discussion, mock interview).
4. Based on their chosen event, the details of the event should be gathered.
5. After the users booked the slot, the database of users should be visible to admins.

6. The admins should be able to give evaluation marks and remarks to the individual user.

3.3. Notifications:

Users should be able to receive notification when they,

- Booked the slot
- Remainder
- Not attended

3.4. User Details:

- ➢ Student Name
- ➢ Roll Number
- ➢ Email Id
- ➢ Slot date
- ➢ Slot Time
- ➢ Venue

3.5. Admin Details:

- ➢ Batch
- ➢ No.of.days
- ➢ Date
- ➢ Faculty count
  - ■ Venues
  - ■ Faculties

3.6. Event and Slot details:

- ➢ Self-Introduction - 5 minutes
- ➢ Mock Interview - 10 minutes
- ➢ Group Discussion - 30 minutes

4. Non-Functional Requirements:

4.1 Performance

- The system should have a fast response time for user interactions.
- The system should be able to handle concurrent bookings efficiently.

4.2 Security

- The system should implement user authentication and authorization mechanisms.
- User data should be stored securely in the database using encryption techniques

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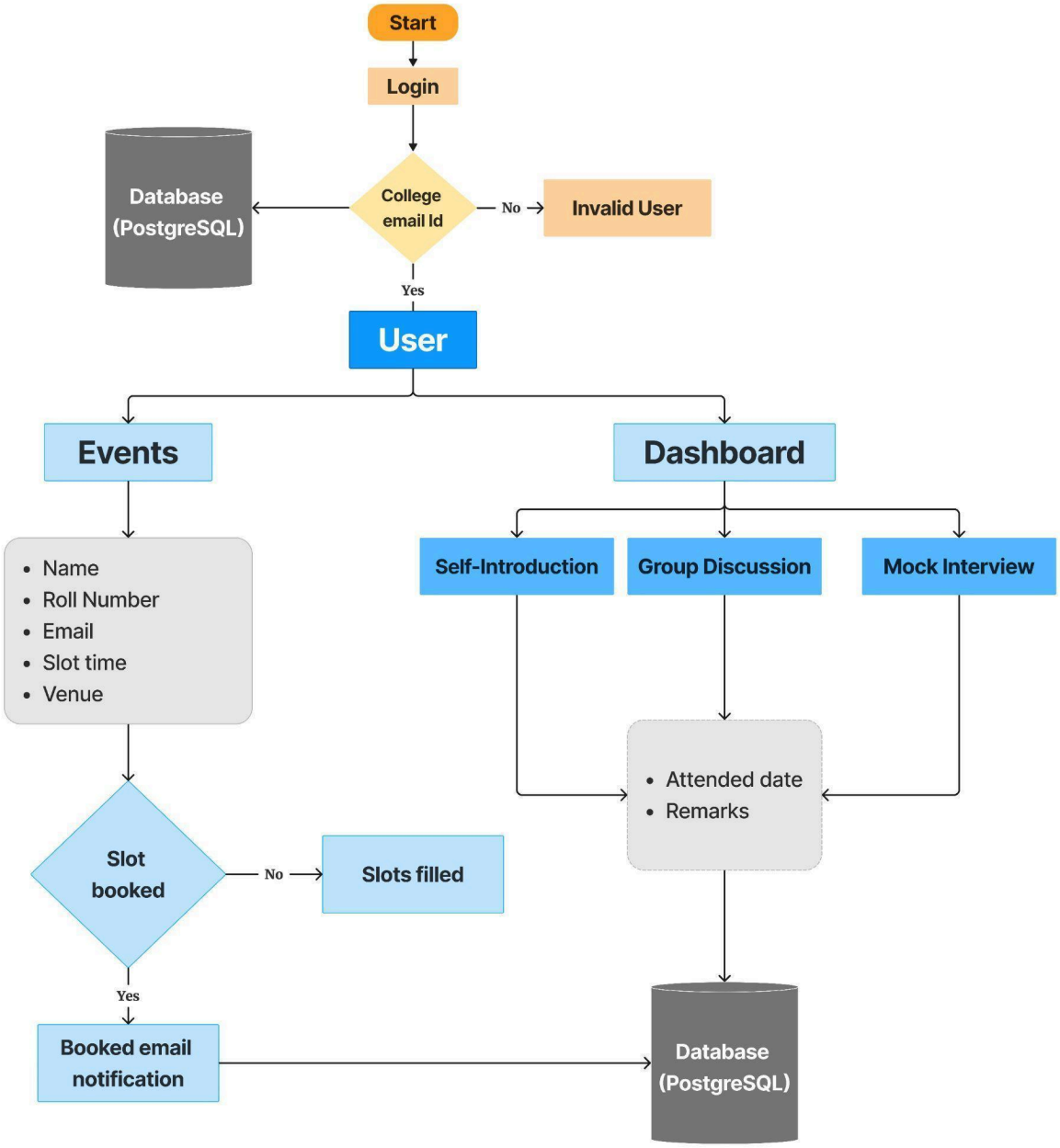
4.3 Usability

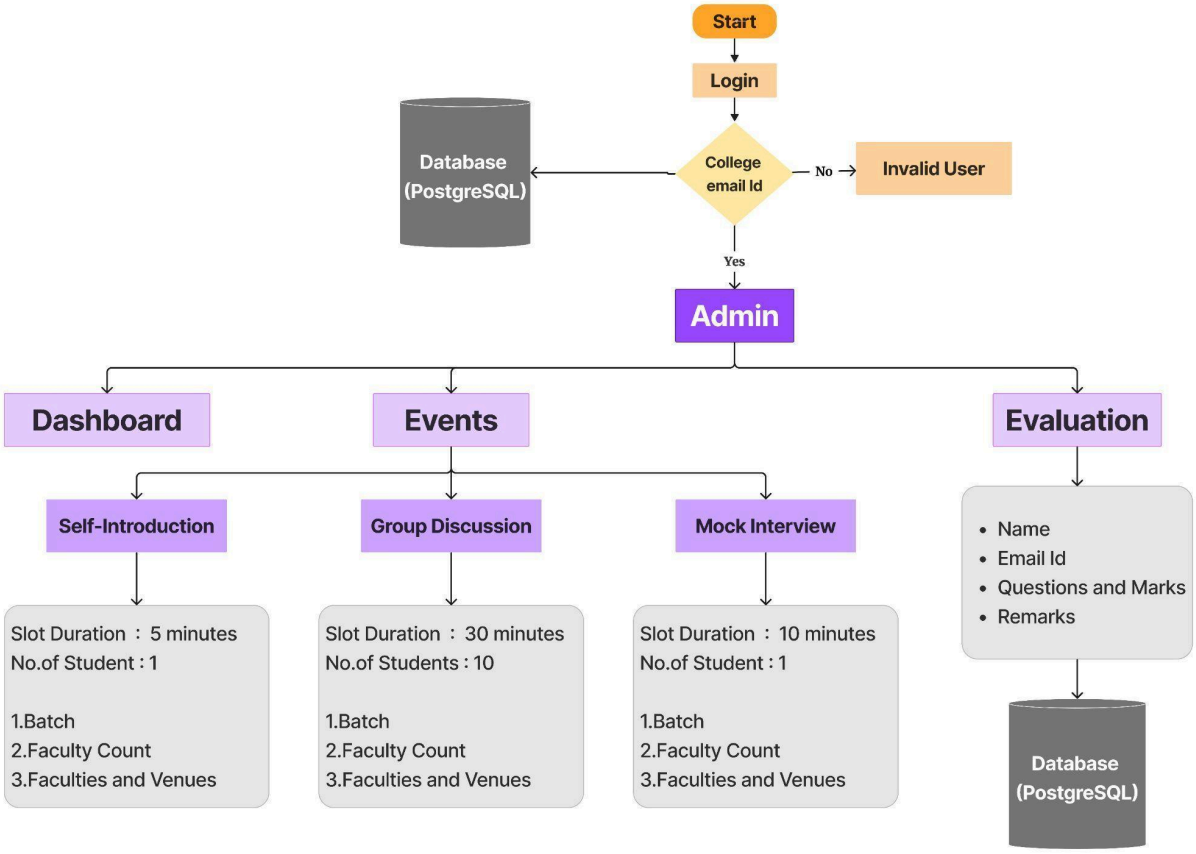
- The user interface should be intuitive and easy to navigate.

5. Flowchart:

5.1. User interface



5.2. Admin interface:



ER diagram: