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SEAT NO: 200

PROJECT ID: 40

PROJECT TITLE: Group Discussion Slot Booking System

TECHNICAL COMPONENTS

COMPONENTS	TECH STACK
Backend	Express JS
Frontend	React JS
Database	Mongo DB
API	Rest API

PROBLEM STATEMENT:

Design and develop an appointment booking system tailored for students in a college setting to efficiently schedule sessions for group discussions, mock interviews, self-introductions, and resume evaluations. Additionally, integrate features enabling faculty members to assign marks based on student performance during these sessions and provide remarks for individual students. The system should facilitate easy scheduling, provide flexibility for both students and faculty, ensure fair allocation of resources, and enhance the overall effectiveness of these student development through constructive feedback and evaluation.

FUNCTIONAL REQUIREMENTS:

1. User Registration and Authentication:

- Students and faculty should be able to register and log in securely to the system.
- User authentication mechanisms should ensure data privacy and security.

2. Appointment Booking:

- Students should be able to schedule appointments for group discussions, mock interviews, self-introductions, and resume evaluations.
- The system should display available time slots and allow students to select their preferred timings.

3. Session:

- Faculty members should have visibility into their availability and the ability to confirm or propose alternative timings.

4. Performance Evaluation

- Faculty members should be able to evaluate student performance during the sessions.
- The evaluation criteria should be customizable and may include aspects like communication skills, critical thinking, and professionalism.

- Faculty members should be able to assign marks and provide written remarks for each student.

5. Feedback Mechanism:

- Faculty members should also be able to provide feedback on the student's performance during the session.

6. Data Management

- The system should maintain records of all appointments, evaluations, and feedback provided.
- Data should be stored securely and be easily accessible for reporting and analysis purposes.

7. Accessibility and User Interface

- The system should have a user-friendly interface accessible via both desktop and mobile devices.

8. Notification System:

- The system should send automated notifications for appointment confirmations, reminders via mail.

9. Administration Panel:

- Administrators should have access to a dashboard for managing user accounts, permissions, and system settings.
- They should be able to generate reports on appointment statistics, student performance, and faculty workload.

NON-FUNCTIONAL REQUIREMENTS:

1. Performance:

- The system should be responsive and provide quick loading times for all users, even during peak usage periods.
- Response times for actions such as booking appointments and submitting evaluations should be minimal.

2. Scalability:

- The system should be designed to handle a large number of concurrent users and appointments as the college community grows

3. Security:

- Data transmission and storage should be encrypted to protect sensitive information such as user credentials, evaluation scores, and feedback comments.
- Access control mechanisms should be implemented to ensure that users can only view or modify data relevant to their roles.

4. Usability:

- The user interface should be intuitive and easy to navigate, with clear instructions for booking appointments, submitting evaluations, and providing feedback.
- The system should support multiple languages and accommodate users with varying levels of technical proficiency.

5. Compatibility:

- The system should be compatible with a wide range of web browsers and devices, including desktop computers, laptops, tablets, and smartphones.
- It should also support different operating systems such as Windows, macOS, iOS, and Android.

6. Maintainability:

- The system should be well-documented, making it easy to update or extend functionality in the future.
- Code should follow best practices and coding standards to facilitate maintenance by developers.

7. Performance Testing:

- Regular performance testing should be conducted to identify and address any bottlenecks or performance issues.
- Load testing should be performed to ensure that the system can handle expected levels of traffic without degradation in performance.

SYSTEM OVERVIEW:

1.Users:

Certainly, let's outline the roles and responsibilities for each type of user:

1. Students:

- **Responsibilities:**
  - Create an account and log in securely.
  - Schedule appointments for group discussions, mock interviews, self-introductions, and resume evaluations.
  - Provide necessary information for appointment booking, such as preferred time slots and session preferences.
  - Attend scheduled sessions on time.
  - Participate actively in the sessions and adhere to guidelines provided by faculty members.
  - Provide feedback on sessions and faculty members' performance.
- **-Privileges:**
  - Access to view available time slots for appointments..

2. Admins:

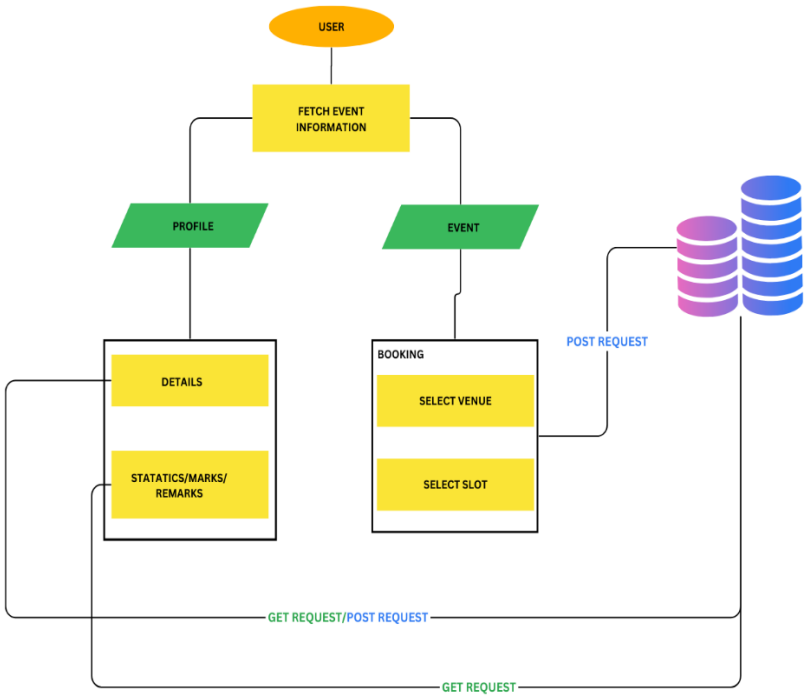
- **Responsibilities:**
  - Manage user accounts and permissions within the system.
  - Monitor system performance and address any technical issues or concerns.
  - Configure system settings, including appointment booking rules and evaluation criteria.
  - Generate reports on appointment statistics, student performance, and faculty workload.
  - Provide support and assistance to users encountering difficulties with the system.
- **Privileges:**
  - Access to an administrative dashboard for managing user accounts, permissions, and system configurations.

- Ability to view system logs and audit trails for security and compliance purposes.
- Permission to perform administrative tasks such as user account creation, modification, or deletion.
- Authority to troubleshoot and resolve technical issues reported by users.

2.Features:

- **Event Change:**
  - Faculty members can change the current event type for scheduled appointments (e.g., switch from Group Discussion to Mock Interview).
- **Edit Appointment:**
  - Faculty members can edit appointment settings, such as date, time, and location.
- **View Absentees:**
  - Faculty members can view a list of absentees for scheduled sessions.
- **Statistics:**
  - Description: Students can view detailed statistics based on their performance in various events.
- **5. Resume Upload:**
  - Students can upload their resumes to the system for evaluation or sharing with faculty members.

USER-WORK-FLOW:



ADMIN-WORK-FLOW;