

A Seminar Hall Booking system using MongoDB, Express, HTML, CSS, JavaScript, and Node.js. I can provide you with an outline of the steps you can follow to complete this project. Here's a suggested approach:

1. Set up the development environment:

- Install Node.js and MongoDB on your system.
- Create a new project directory.

2. Backend Development:

- Initialize a new Node.js project using npm or yarn.
- Set up the Express.js framework to handle HTTP requests and routes.
- Implement user authentication and authorization for the admin and department roles.
- Design and implement the necessary API endpoints for the system modules:
  - Admin:
    - Create an admin account and implement the admin login functionality.
    - Create department accounts.
    - View all bookings.
    - Update booking status (approval/rejection).
    - Send notifications to departments.
  - Department:
    - Implement registration and login functionality for department members.
    - Update booking details.
    - View their own bookings.

3. Database Integration:

- Connect your application to MongoDB using a suitable Node.js MongoDB driver (e.g., Mongoose).
- Design the necessary database schemas and models to store data such as users, bookings, and seminar hall details.
- Implement the required database operations (CRUD) to interact with the data.

4. Frontend Development:

- Create the necessary HTML, CSS, and JavaScript files for the frontend.
- Design and implement the user interfaces for the admin and department modules using HTML and CSS.
- Use JavaScript to handle user interactions and make API calls to the backend.

5. Testing and Debugging:

- Test your application by creating sample data and performing various actions.
- Debug any issues or errors that arise during testing.

6. Deployment:

- Deploy your application to a suitable hosting platform (e.g., Heroku, AWS, etc.).
- Set up any necessary configurations for deployment.