**Project Brief: Conference Booking Management System**

**Project Overview:** The Conference Booking Management System is designed to simplify and optimize the process of booking conference rooms within an organization. The solution will consist of a mobile application for users and a back-end management website for administrators. The system aims to provide seamless booking experiences, real-time availability updates, and efficient management of conference room resources.

**Key Features:**

1. **Conference Room Booking:**
   * Any user with access to the mobile app can book available conference rooms.
2. **Admin Room Management:**
   * Admin users can create, edit, and manage conference room details, including capacity and amenities.
3. **Role-Based Approval and Cancellation:**
   * Admins have the authority to approve or cancel bookings, ensuring controlled access to resources.
4. **Real-Time Room Availability:**
   * Users can view up-to-date schedules and availability of conference rooms.
5. **Notifications and Reminders:**
   * Users receive automated notifications for booking confirmations, upcoming meetings, and updates.
6. **Calendar Integration:**
   * Seamless integration with Outlook and Google Calendar for automatic syncing of bookings.
7. **User Authentication and Role Management:**
   * Secure login and role-based access control for users and administrators.
8. **Recurring Bookings:**
   * Users can schedule recurring meetings with customizable frequency and duration.
9. **Room Capacity and Amenities Display:**
   * Clear display of room size, seating capacity, and available amenities (e.g., projectors, whiteboards).
10. **Room Media Gallery:**
    * Users can view pictures and videos of conference rooms to better understand the space and available facilities.
11. **Meeting Attendee Management and Agenda Integration:**
    * Users can add meeting agendas during the booking process and invite attendees directly through the app. Attendees will receive invites and updates via notifications and calendar integration.

**Target Users:**

* General users within the organization requiring conference room access.
* Admin users responsible for managing conference room resources.

**Technology Stack:**

* **Mobile Application:** Cross-platform (iOS and Android) using React Native.
* **Back-End Website:** .NET Core MVC Razor Pages for admin management.
* **Database:** Azure SQL Database for secure data storage.
* **Cloud Deployment:** Azure App Service for web deployment and Azure Container Instances for API services.

**Project Timeline:**

* **Phase 1:** Requirements gathering and UI/UX design (2 weeks)
* **Phase 2:** Development of core features (6 weeks)
* **Phase 3:** Integration and testing (3 weeks)
* **Phase 4:** Deployment and user feedback (2 weeks)

**Goals and Objectives:**

* Streamline the process of booking and managing conference rooms.
* Improve resource utilization and reduce scheduling conflicts.
* Provide a user-friendly interface with real-time updates and notifications.
* Ensure secure and role-based access to system functionalities.

**Conclusion:** The Conference Booking Management System will enhance productivity and resource management by providing an intuitive, secure, and efficient platform for booking and managing conference rooms. This solution will support the organization’s operational needs and contribute to better scheduling and utilization of available spaces.

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Login

Register

Forgot

Role Mgmt

Admin room

Approval/Cancellation

Real Time Room

Notification Reminders

Calendar

Customize Booking

Room Log

Media

Meeting Invitation

Figma, Design, Socket, Notification, Payment

Deployment: Azure