SMART CONFERENCING APP

INTRODUCTION

Imagine a large conference with hundreds of attendees from all over the world. The organizers have to keep track of everyone who attends, ensure that they have registered and monitor attendance for each session. In the past, this meant printing out registration forms, and using paper attendance sheets that had to be collected and entered into a database later. Not only was this process time-consuming and labour-intensive, but it was also prone to errors and lost data.

With the Smart Conferencing App, all of these tasks become much easier. Attendees can register online, receive confirmation of their registration immediately, and view the schedule of events. The app also generates personalized QR codes for each attendee that can be scanned at the entrance to each session, allowing for real-time attendance tracking without the need for paper attendance sheets. Organizers can view attendance data in real-time, monitor session capacity, and make informed decisions about scheduling and room assignments.

The Smart Conferencing App not only simplifies the registration and attendance tracking process, but it also provides a seamless and convenient experience for attendees. No more paper forms or long lines at registration. With the Smart Conferencing App, attendees can register and view the schedule in minutes, receive instant confirmation, and enjoy a more organized and efficient conference experience. Additionally, the app keeps records of attendees and those who could not attend, making reporting and follow-up after the conference easier and more accurate.

FUNCTIONAL REQUIREMENTS

- The system should only allow the administrator to manipulate or make changes to the database.

- The admin should be able to create and edit events.
- The admin should be able to upload flyer for an event created.
- The admin should be able to upload program outline for an event
- The system should allow the administrator to create dynamic fields for conference details (participant form).
- The system should have a Confirmation page for users to edit and confirm details about event participation.
- The system should be able to generate a confirmation message for participants to check their mail or phone after registration.
- The system should have a thank you page after each event registration by the user.

- The system should be able mark attendance of participants who attend or fail to attend the event.
- The admin should be able to view list of registered participants who attended or fail to attend the event.
- The system should have a search and filter option to check for registered participants
- The system should be able to send out reminders in the form of SMS/email notifications to all registered participants for an event a few days before said event.
- The system should be able to send brochures or program outline on the day of the event to all who have registered for an upcoming event.
- The admin should be able to generate a live report of all registered participants in an event.

NON-FUNCTIONAL REQUIREMENTS

• The system should allow room for expansion.

• A system should have a high performance and reliability level.

• The system must prompt users in the event of any change in inactivity.

• The system should be highly secure.

• All user input must be checked and validated by the system, and users must be told if there are any problems with their authentication while they are using the system.

HARDWARE REQUIREMENTS

The most common set of requirements defined by any operating system or software application
is physical components or resources known as hardware. The minimum requirements for hardware for running this system are as follows.

Client Side		Server Side	
Processor	1.6 GHz	**Processor**	2.4 GHz
Hard Disk	1 GB free space	**Hard Disk**	3 GB free space
RAM	4 GB	**RAM**	4 GB

SOFTWARE REQUIREMENTS

Software requirements are documents that define the components and behaviour of a software application. The minimum requirements for software for running this system are as follows:

Client Side		Server Side	
Operating System	Windows 10	**Operating System**	Windows 10 or any compatible OS.
Web Server		**Web Browser**	Chrome or any compatible browser.
Front End Tools	HTML5, CSS3, Angular, Prime Ng		
Back End Tools	Python, Fastapi		
Database	Postgres		

ADMINISTRATOR UNIT FACTIONALITIES

- The administrator unit manages admin accounts and permissions, including registration, login, and profile creation.

- The administrator unit manages participant information, including registration details, and attendance tracking.

- The administrator unit manages the event schedule, including details of sessions, speakers, and locations.

- The administrator unit provides analytics and reporting on attendee engagement, session attendance, and other relevant metrics.

- The administrator unit provides technical support to attendees, speakers, sponsors, and exhibitors regarding the use of the app and any technical issues that arise.

- The administrator unit manages the content displayed on the app, including images, videos, and text.

USERS UNIT FUNCTIONALITIES

- Participants, speakers, sponsors, and exhibitors can register for any conference available through the app

- Participants can view the event schedule and session details, including information on speakers, topics, and locations.

- Participants can view information on speakers, including bios, presentation materials, and scheduled sessions.

- Participants receive real-time notifications and alerts regarding changes in the schedule or other important information concerning events.