# Online Event Scheduler

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# Background Study

PROS

Doodle:

- Simple and easy to use, without requiring users to sign up for an account or subscription.
- Offers time zone support.
- Suitable for scheduling events with multiple attendees and complex availability.
- Offers a poll feature for determining availability and preferences.

Calendly:

- Integration with various calendar platforms.
- Offers advanced features such as reminders, team scheduling, and analytics.

When2Meet:

- Simple and easy to use, without requiring users to sign up for an account or subscription.
- Offers time zone support.
- Suitable for scheduling events with multiple attendees and complex availability.

# Background Study

CONS

Doodle:

- Lacks integration with calendar platforms.
- Not user-friendly design.
- Does not offer advanced features such as reminders, team scheduling, and analytics.
- Utilities functionality not available.

Calendly:

- Requires users to sign up for a paid subscription to access some features.
- Does not have intuitive UI (drag feature to select time slots).
- May not be suitable for scheduling events with large groups or complex availability.

When2Meet:

- Lacks integration with calendar platforms.
- Limited options for customization and design.
- Does not offer advanced features such as reminders and team scheduling.
- Advertisements cause distraction.

# Motivation of the Project

- Traditional methods of scheduling, such as email or phone calls, can be inefficient and prone to miscommunications.
- Participants may not see messages or respond in a timely manner, leading to delays or confusion.
- Also, Coordinating availability across multiple people and time zones can be a time-consuming and frustrating process, often involving numerous rounds of communication and the potential for scheduling conflicts or misunderstandings.
- Complex UI selection and enormous data entry.
- By addressing these challenges, our application will provide a valuable solution for anyone who needs to coordinate meetings or events with multiple participants.

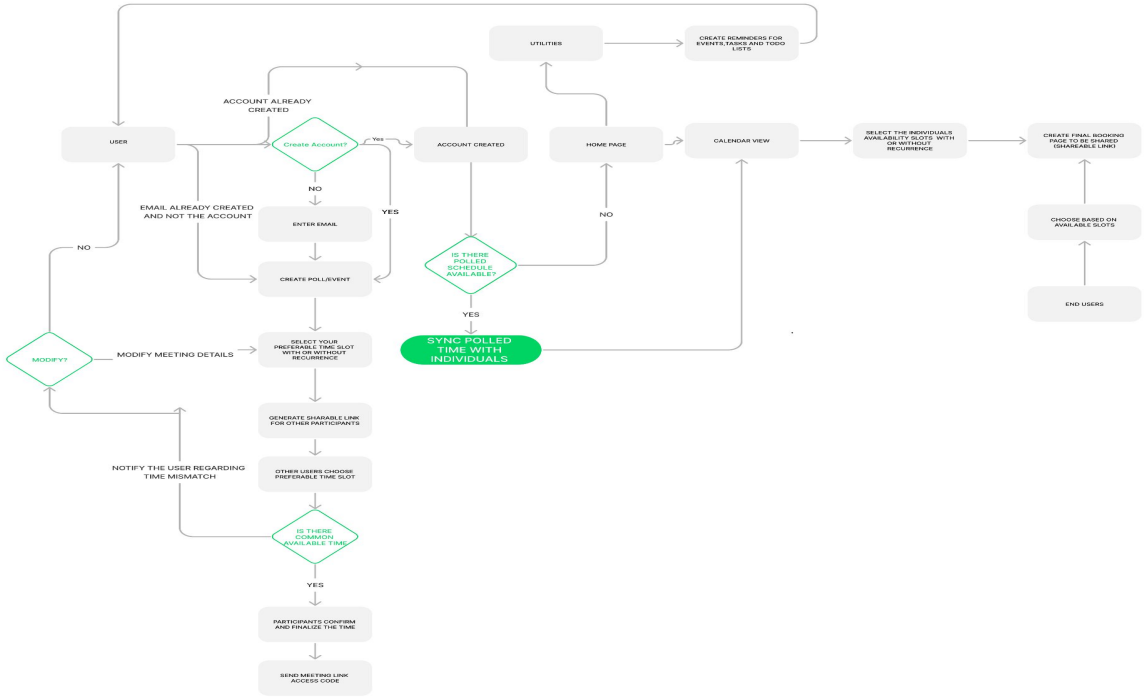
# Objectives

- The Online Event Scheduling (OES) is aimed at developing an application to schedule, monitor, plan and re-plan meetings to help users schedule their meetings on the go. It eliminates email and phone tag, and ensures a satisfying scheduling experience for all attendees.
- This web app also augments the reliability and enhances the usability by providing an intuitive and easily navigable user interface which in turn provides a secure ecosystem for managing a collection of individual calendars for the purposes of group scheduling and individual one-on-one meetings.

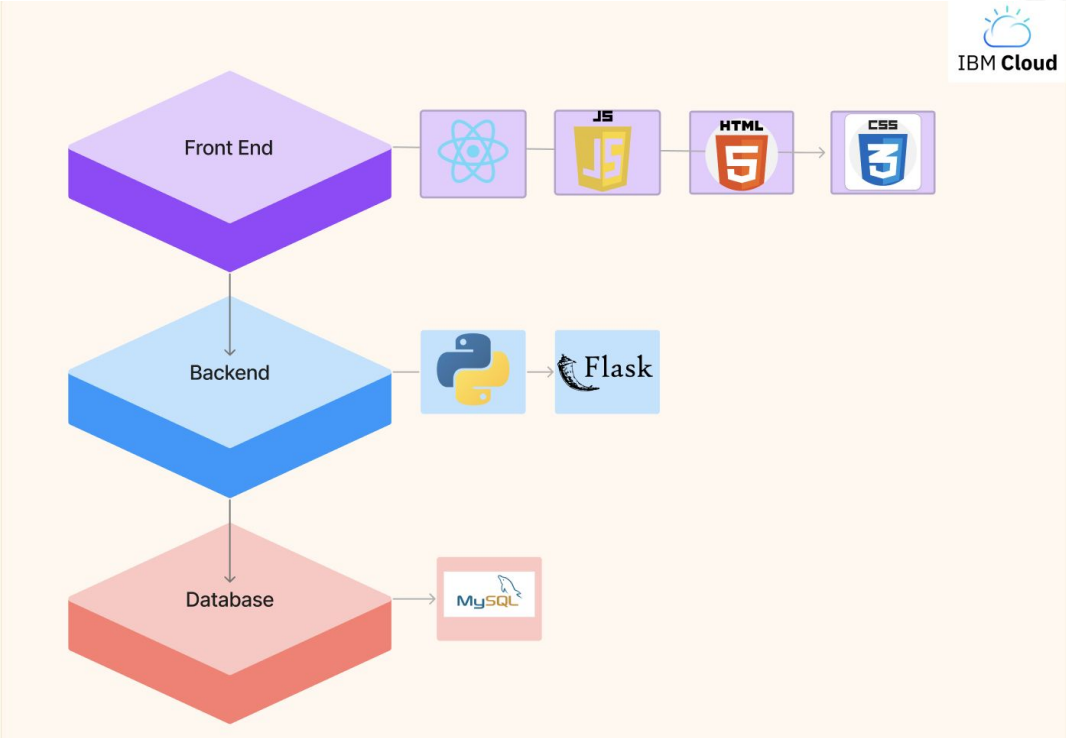
# Scope of our Application

- Scheduling one-to-one and multi-user meetings.
- Create a poll for finding the common availability with or without an account.
- Sync the user who has confirmed poll timings with respective individual's calendars when and if the user creates/has an account.
- Time zone constraints are handled based on the user geographical/calendar data.
- Create a booking page based on the availability with or without recurrence.
- Pending request feature holds the meeting request sent by the participants to be confirmed.
- Get reminders about the scheduled events.
- End users can set utilities like custom task/birthday/to-do reminders based on their requirement.
- Providing a wide range of calendar/utilities viewing options.

# Functional Flow Diagram



# Block Diagram - Tech Stack



# Tech Stack in a Nutshell

**FRONTEND:**

- HTML: HyperText Markup Language is the code that is used to structure a web page and its content.
- CSS: Cascading Style Sheets are used to style HTML Pages.
- ReactJS: Open source Javascript library used to build user interfaces. It is maintained by Meta. We make use of ReactJS to build end-user screens.
- ReactDOM: ReactDOM is the JavaScript library that allows React to interact with the Document Object Model(DOM). We use ReactDOM to manage the DOM elements of the web app.
- react-router-DOM:The react-router-dom package contains bindings for using React Router in web applications.
- Bootstrap: Bootstrap is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-first websites.

**BACKEND:**

- Flask: Python web framework used for building web applications and APIs.
- Python: Python is a high-level, interpreted programming language known for its simplicity, readability, and versatility in various applications.

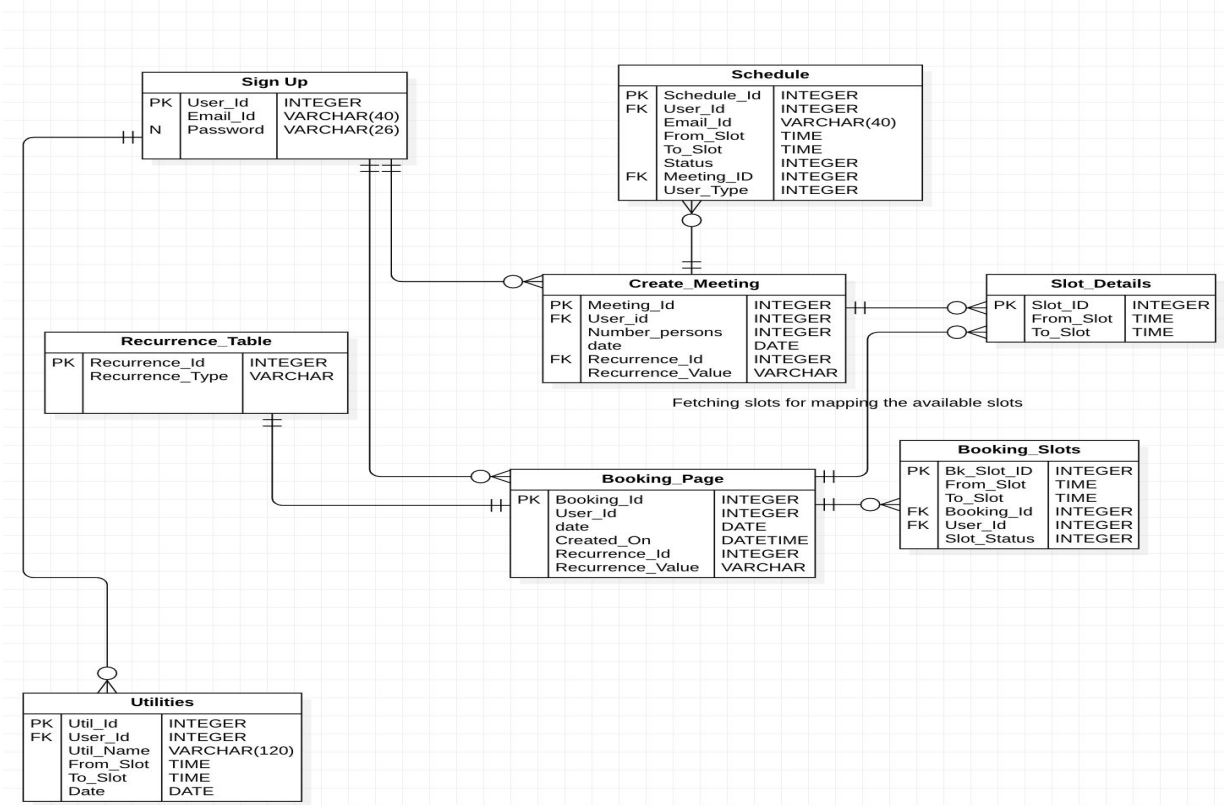
**DATABASE:**

- MySQL: An open-source relational database management system used for storing, organizing, and retrieving data in various applications.

**TESTING:**

- Selenium: A popular open-source framework for automating web browsers and testing web applications.
- Postman: A popular tool used for testing APIs, making HTTP requests, and validating responses.

# ER Diagram


Sign Up
PK User_Id INTEGER
Email_Id VARCHAR(40)
N Password VARCHAR(26)
Schedule
PK Schedule_Id INTEGER
FK User_Id INTEGER
Email_Id VARCHAR(40)
From_Slot TIME
To_Slot TIME
Status INTEGER
FK Meeting_ID INTEGER
User_Type INTEGER
Create_Meeting
PK Meeting_Id INTEGER
FK User_id INTEGER
Number_persons INTEGER
date DATE
FK Recurrence_Id INTEGER
Recurrence_Value VARCHAR
Slot_Details
PK Slot_ID INTEGER
From_Slot TIME
To_Slot TIME
Recurrence_Table
PK Recurrence_Id INTEGER
Recurrence_Type VARCHAR
Fetching slots for mapping the available slots
Booking_Page
PK Booking_Id INTEGER
User_Id INTEGER
date DATE
Created_On DATETIME
Recurrence_Id INTEGER
Recurrence_Value VARCHAR
Booking_Slots
PK Bk_Slot_ID INTEGER
From_Slot TIME
To_Slot TIME
FK Booking_Id INTEGER
FK User_Id INTEGER
Slot_Status INTEGER
Utilities
PK Util_Id INTEGER
FK User_Id INTEGER
Util_Name VARCHAR(120)
From_Slot TIME
To_Slot TIME
Date DATE

# Wireframe

# References


- https://www.figma.com/community/file/1163829368060240534
- https://doodle.com/
- https://learn.microsoft.com/en-us/outlook/rest/get-started
- https://www.g2.com/categories/event-management-platforms
- https://www.ijraset.com/research-paper/event-scheduler
- Naman Jain1 , Shaik Abhishaik1 “Event Scheduler” International Journal for Research in Applied Science & Engineering Technology (IJRASET)
- https://www.figma.com/file/6disvT7ST9wNWoBzgFfSQ2/Flow-Chart-Template-(Copy)?node-id=0%3A1&t=XR9uLt7zOxOfFNDN-0

# THANK YOU

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