Online Event Scheduler

1. Introduction

Online Event Scheduling aims 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.

Online Event Scheduler has two main functionalities

1.1 Poll

A user can initiate a poll and share a unique poll link with participants to get their availability that can help finalize an event or meeting time. Each user can choose to view time slots in a timezone of their choice.

The poll functionality provides two roles:

- Initiator
    - The initiator gets to initiate the poll with single or multiple time slots for a meeting and generate a poll link for himself and the users.
    - The initiator can also set a poll expiration date and time.
    - This link will enable authorization only to the initiator to finalize the time for an event/meeting or delete a poll.
- Participant
    - The users with the poll link generated by the initiator can put in their availability for the initiator to come to a decision to finalize the meeting time.
    - The availability can be marked in 2 modes for each time slot - Yes or Maybe
    - Once the poll expires, participants will not be able to mark their availability.
    - Once the meeting is finalized, participants will be able to see the finalized time on the same poll link.

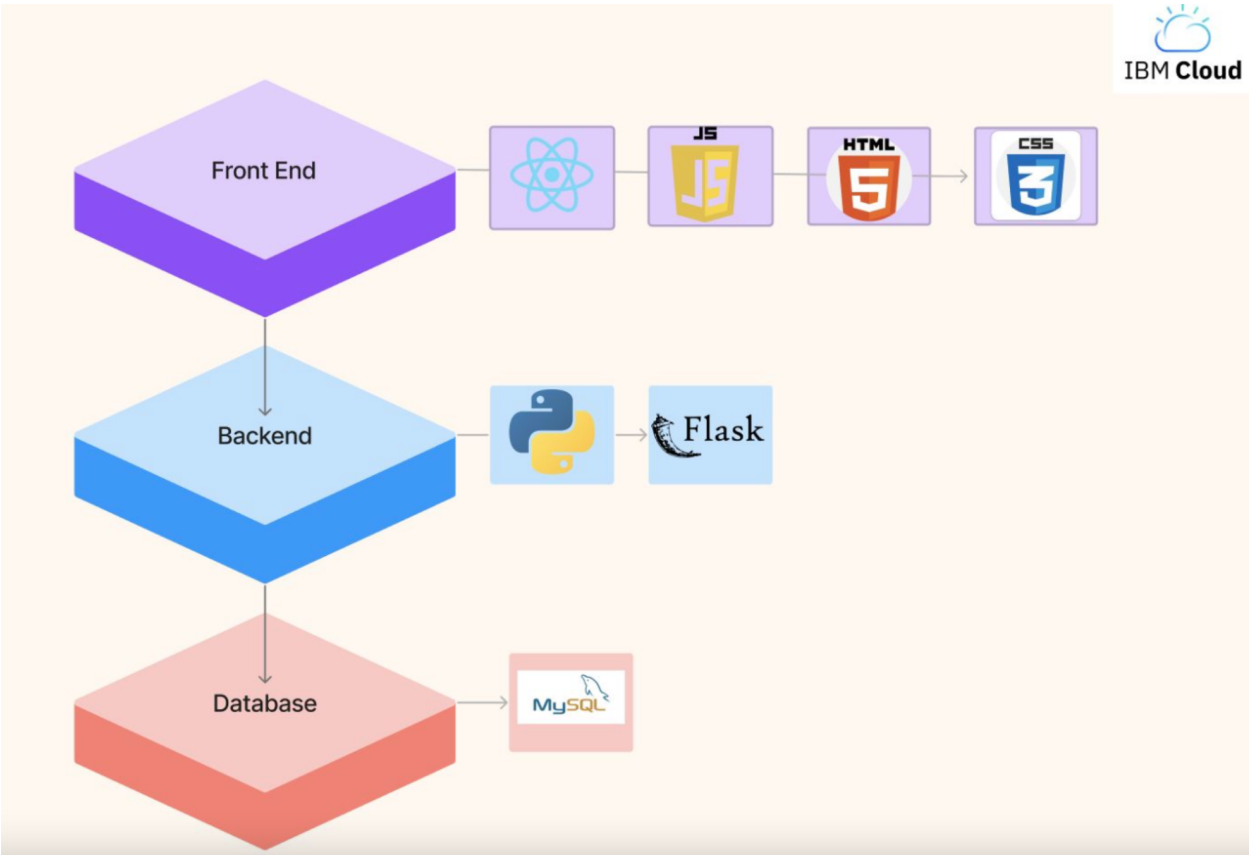
1.2 Meeting

This functionality provides the access to logged in users to put in their availability.

Users with the link can book the slots for 1:1 meetings.

The meetings can occur - Daily, Weekly, Monthly

2. Tech Stack



3. GitHub

https://github.com/xlab-classes/cse611-spring2023-OnlineEventScheduler

Directories:

- Artifacts : contains all documents
- Backend : contains all backend code and APIs
- Database : contains all schemas and queries
- Frontend : contains all frontend code

4. APIs

4.1 Create Meeting

Endpoint: /api/meeting/create

Request Body:


```
{
  "userid":99,
  "title": "Test",
  "description": "Test",
  "location": "Test",
  "secret": "6923d722fd8477a11463e38c2c",
  "times": [
    {
      "start": 1683007200000,
      "end": 1683008100000
    },
    {
      "start": 1683002700000,
      "end": 1683003600000
    },
    {
      "start": 1683004500000,
      "end": 1683005400000
```

```
    }
],
"endate": "2023-05-12T23:03:00.000Z",
"recurr": "Daily",
"recurr_endate": "2023-05-12T23:03:00.000Z",
"recurr_event": [
    {
        "event_id": 1,
        "title": "djngjen",
        "start": "2023-05-02T06:00:00.000Z",
        "end": "2023-05-02T06:15:00.000Z",
        "color": "black",
        "status": 0
    },
    {
        "event_id": 2,
        "title": "djngjen",
        "start": "2023-05-03T06:00:00.000Z",
        "end": "2023-05-03T06:15:00.000Z",
        "color": "black",
        "status": 0
    },
    {
        "event_id": 3,
        "title": "djngjen",
        "start": "2023-05-04T06:00:00.000Z",
        "end": "2023-05-04T06:15:00.000Z",
        "color": "black",
        "status": 0
    },
    {
        "event_id": 4,
        "title": "djngjen",
        "start": "2023-05-05T06:00:00.000Z",
```

```
        "end": "2023-05-05T06:15:00.000Z",
        "color": "black",
        "status": 0
      }
  ]
}
```


Response:


```
{
  "meeting_id": 1,
  "message": "Test",
  "status": 200,
  "user_id": 99
}
```


4.2 Get Meeting

Endpoint: /api/meeting

Request Params:

user_id : 9

Response:


```
{
 "Meeting details": [
  {
    "userid": 9,
    "title": "Test Meeting",
    "description": "Test Meeting for OES",
    "location": "Test location",
    "secret": "6923d722fd8477a11463e38c2c",
    "times": [
```

```
  {
    "start": 1683007200000,
    "end": 1683008100000
  },
  {
    "start": 1683002700000,
    "end": 1683003600000
  },
  {
    "start": 1683004500000,
    "end": 1683005400000
  }
],
"endate": "2023-05-04T06:00:00.000Z",
"recurr": "Dialy",
"recurr_endate": "2023-05-01T06:00:00.000Z",
"recurr_event": [
  {
    "event_id": 1,
    "title": "event 1",
    "start": "2023-05-02T06:00:00.000Z",
    "end": "2023-05-02T06:15:00.000Z",
    "color": "black",
    "status": 0
  },
  {
    "event_id": 2,
    "title": "event 2",
    "start": "2023-05-03T06:00:00.000Z",
    "end": "2023-05-03T06:15:00.000Z",
    "color": "black",
    "status": 0
  }
]
```

```
  }
 ]
}
```


4.3 Register Meeting

Endpoint: /api/meeting_registration

Request Body:


```
{
  "meeting_id": 8,
  "recurr_event": [
  {
    "event_id": 1,
    "title": "check recurrance",
    "start": "2023-04-17T16:30:00.000Z",
    "end": "2023-04-17T16:45:00.000Z",
    "color": "green",
    "status": 0
  },
  {
    "event_id": 2,
    "title": "check recurrance",
    "start": "2023-04-24T16:30:00.000Z",
    "end": "2023-04-24T16:45:00.000Z",
    "color": "black",
    "status": 0
  },
  {
    "event_id": 3,
```

```
    "title": "check recurrance",
    "start": "2023-05-01T16:30:00.000Z",
    "end": "2023-05-01T16:45:00.000Z",
    "color": "black",
    "status": 0
  }
]
}
```


Response:


```
{
 "Meeting details": [
  {
    "userid": 9,
    "title": "Test Meeting",
    "description": "Test Meeting for OES",
    "location": "Test location",
    "secret": "6923d722fd8477a11463e38c2c",
    "times": [
      {
        "start": 1683007200000,
        "end": 1683008100000
      },
      {
        "start": 1683002700000,
        "end": 1683003600000
      },
      {
        "start": 1683004500000,
        "end": 1683005400000
      }
    ],
    "endate": "2023-05-04T06:00:00.000Z",
    "recurr": "Dialy",
```

```
  "recurr_endate": "2023-05-01T06:00:00.000Z",
  "recurr_event": [
    "recurr_event": [
 {
  "event_id": 1,
  "title": "check recurrance",
  "start": "2023-04-17T16:30:00.000Z",
  "end": "2023-04-17T16:45:00.000Z",
  "color": "green",
  "status": 0
 },
 {
  "event_id": 2,
  "title": "check recurrance",
  "start": "2023-04-24T16:30:00.000Z",
  "end": "2023-04-24T16:45:00.000Z",
  "color": "black",
  "status": 0
 },
 {
  "event_id": 3,
  "title": "check recurrance",
  "start": "2023-05-01T16:30:00.000Z",
  "end": "2023-05-01T16:45:00.000Z",
  "color": "black",
  "status": 0
 }
]
}
```


4.4 Initiate Poll

Endpoint: /api/poll/create

Request Body:


```
{
 "title": "Test",
 "description": "Test Event for OES",
 "open": true,
 "secret": "c1a57d02709d73b3a61e060220fb2a73",
 "location": "Room 1",
 "endate": "4/25/2023 1:38:00 PM",
 "recurr_endate": "",
 "recurr": "",
 "userid": -1,
 "times": [
  {
   "start": 1682397000000,
   "end": 1682397900000
  },
  {
   "start": 1682485200000,
   "end": 1682486100000
  }
 ],
 "createdAt": {
  "date": "2023-04-25T17:38:34.388Z"
 },
 "updatedAt": {
  "date": "2023-04-25T17:38:34.388Z"
 }
}
```


Response:


```
{
 "Poll ID": 1,
```

```
 "status": 200
}
```


4.5 Get Poll

Endpoint: /api/poll

Request Params:


```
pollID: 1
secret: c1a57d02709d73b3a61e060220fb2a73
```


Response:


```
{
 "pollID": 1,
 "title": "Test",
 "description": "Test Event for OES",
 "open": true,
 "secret": "c1a57d02709d73b3a61e060220fb2a73",
 "location": "Room 1",
 "endate": "4/25/2023 1:38:00 PM",
 "recurr_endate": "",
 "recurr": "",
 "userid": -1,
 "times": [
  {
   "start": 1682397000000,
   "end": 1682397900000
  },
  {
   "start": 1682485200000,
   "end": 1682486100000
  }
 ],
 "finalTime": {
```

```
  "start": 1682397000000,
  "end": 1682397900000
 },
 "votes": [
  {
   "name": "User 1",
   "times": [
    {
     "start": 1682397000000,
     "end": 1682397900000
    },
    {
     "start": 1682485200000,
     "end": 1682486100000
    }
   ]
  }
 ],
 "createdAt": {
  "date": "2023-04-25T17:38:34.388Z"
 },
 "updatedAt": {
  "date": "2023-04-25T17:38:34.388Z"
 }
}
```


4.6 Mark Final Time

Endpoint: /poll

Request Params:


```
pollID: 1
secret: c1a57d02709d73b3a61e060220fb2a73
```

Response:


```
{
 "finalTime": {
   "start": 1682397000000,
   "end": 1682397900000
 },
 "open": false,
 "updatedAt": {
   "date": "2023-04-25T17:38:34.388Z"
 }
}
```


4.7 Delete Poll

Endpoint: /poll

Request Params:


```
pollID: 1
secret: c1a57d02709d73b3a61e060220fb2a73
```


Response:


```
{
 "message": "1 deleted successfully",
 "status": 200
}
```


4.8 Mark Participant Availability

Endpoint: /participant

Request Params:

pollID: 1

Response:


```
{
 "votes": [
  {
   "name": "User 1",
   "times": [
    {
     "start": 1682397000000,
     "end": 1682397900000
    },
    {
     "start": 1682485200000,
     "end": 1682486100000
    }
   ]
  }
 ]
}
```


4.9 Signup

Endpoint: /signup

Request Body:


```
{
 "email": "user@example.com",
 "password": "string"
}
```

Response:


```
{
 "message": "Account Created Successfully",
 "user_id": 1,
 "email": "user@example.com"
}
```


4.10 Login

Endpoint: /login

Request Body:


```
{
 "email": "user@example.com",
 "password": "string"
}
```


Response:


```
{
 "message": "Success",
 "user_id": 1,
 "email": "user@example.com"
}
```