# CSC309 – P2 API EndPoints

#### Accounts:

## Register:

POST:/accounts/register/

To register/create an account. Expects a JSON request body with the following fields:

```
{
  "username": "Example1",
  "password": "Ex123ample",
  "email": "example@mail.com",
  "first_name": "string",
  "last_name": "string"
}
```

#### Response:

```
"username": "Example1",
  "email": "example@mail.com",
  "first_name": "string",
  "last_name": "string"
}
```

# Login:

POST:/accounts/login/

To login. Expects a JSON request body with the following fields:

```
{
   "username": "Example",
   "password": "Ex123ample"
}
```

#### Response:

```
{
  "detail": "Login successful", 
  "token": "b7a598f90f4383b924ff1144aabb93879ed06f42"
}
```

The token returned is required for authentication in other endpoints of the app.

If a user inputs incorrect credentials, they will be met with a Bad Request error 400:

```
{
    "non_field_errors": [
    "Incorrect credentials"
]
}
```

## Logout:

### **DELETE**:/accounts/logout/

To logout. The user should be authenticated. Response:

If the user isn't authenticated, they will be met with Error 401 Unauthorized:

## Calendar:

#### Create:

**POST**:/calendars/create/

To create a calendar. User should be authenticated. Expects a JSON request body with the following fields:

An email will be sent to the invitees to choose an available time to meet.

The created calendar will be assigned an ID (used to view the calendar, see below).

If the user isn't authenticated, they will be met with Error 401 Unauthorized:

#### View:

#### **GET**:/calendars/{id}/

To view a calendars information. The user should be authenticated. The response has information about the calendar, the invitees, and their response status:

```
ş
   "id": 13,
   "name": "My New Calendar",
    "description": "This is a description of my new calendar.",
   "owner_username": "Rabah",
    "availability": [
        {
            "start_time": "2024-03-07T18:00:00Z",
            "end_time": "2024-03-07T19:00:00Z"
   ],
    "invitations": [
            "invitee email": "participant1@example.com",
            "status": "Pending",
            "availability": "[]"
        },
        Ę
           "invitee_email": "participant1@example.com",
            "status": "Pending",
            "availability": "[]"
        },
           "invitee_email": "participant2@example.com",
            "status": "Pending",
            "availability": "[]"
        ξ,
```

If the user isn't authenticated, they will be met with Error 401 Unauthorized (only the creator of the calendar can view it):

Trying to access a calendar that doesn't exist will be met with error 404 Not Found:

#### Recommendations:

**GET**: /calendars/<int:calendar\_id>/recommendations/

Given a calendar ID, returns a list of 3 recommended calendars by scheduling each invitee into a timeslot based on the inviter's and the invitees' availability.

Return body contains a 2D array where each internal array represents a possible calendar combination. The time slots contain the email of the invitee scheduled in that time slot, and the start/end time of the slot. (In order to actually select a recommended calendar, see the "calendars/<int:calendar id>/finalize" endpoint below.)

```
"invitee": "participant1@example.com",
"meeting_times": [
  "2024-03-07T18:00:00",
  "2024-03-07T18:30:00"
"invitee": "participant2@example.com",
"meeting_times": [
  "2024-03-07T20:00:00",
  "2024-03-07T20:30:00"
"invitee": "participant1@example.com",
"meeting times": [
  "2024-03-07T18:30:00",
  "2024-03-07T19:00:00"
"invitee": "participant2@example.com",
"meeting_times": [
  "2024-03-07T20:30:00",
  "2024-03-07T21:00:00"
"invitee": "participant1@example.com",
"meeting times": [
  "2024-03-07T18:00:00",
  "2024-03-07T18:30:00"
"invitee": "participant2@example.com",
"meeting times": [
  "2024-03-07T21:00:00".
```

If a user cannot be scheduled for a meeting, returns "No available time slot" inside the meeting\_times field.

```
{
    "invitee": "participant1@example.com",
    "meeting_times": [
        "2024-03-07T18:00:00",
        "2024-03-07T18:30:00"
]
},
{
    "invitee": "participant2@example.com",
    "meeting_times": "No available time slot"
}
],
```

#### Finalize:

**POST**: /calendars/<int:calendar\_id>/finalize/

Given a calendar ID, sets the "Finalized" boolean to True, then populates the finalized\_schedule field with the passed in schedule.

Requires auth, and the requesting user must be the owner of the calendar.

Expects a JSON request body with the following field. (See the "/calendars/1/recommendations" endpoint above for how to query recommended schedules, then use that as input for this endpoint)

If successful, returns with a 200 status and the following message.

```
{
    "message": "Calendar finalized successfully."
}
```

#### Send Reminder:

**POST**: /calendars/send-reminder/

Sends an email reminder to the user with the specified email and for a calendar ID, reminding them to submit their availability, and with a unique link for them to do so. Requires auth.

Expects a JSON request body with the following fields:

```
{
    "email": "bobglob@gmail.com",
    "calendar_id": 1
}
```

If successful, returns with a 200 status and the following message.

{'message': 'Reminder sent to bobglob@gmail.com.'}

## **Invitations:**

# Update Invitee Availability:

**PATCH**:/calendars/invitations/{token}/update/

For the invitees to choose their availability. The {token} is sent with the link to their emails. Expects a JSON request body with the following field for availability:

```
1
|----"availability": -"[{\"start_time\": -\"2024-03-07T18:00:00Z\", -\"end_time\": -\"2024-03-07T19:00:00Z\"}]"
}
```

If successful, returns a 200 status and the following message:

```
1 {
2     "message": "Availability updated successfully."
3 }
```

## View:

**GET**:/calendars/invitations/{token}/view/ For the invitees to view their response.

Returns a 200 status and the following information:

```
{
    "id": 20,
    "calendar": 12,
    "invitee_email": "nidaa.rabah@mail.utoronto.ca",
    "status": "Accepted",
    "availability": "[{\"start_time\": \"2024-03-07T18:00:00Z\", \"end_time\": \"2024-03-07T19:00:00Z\"}]"
}
```

In both update and view, if the token is incorrect, Error 404 Not Found will be raised.