OneOnOne Design Document

Models

Calendar
- Attributes
    - name (String, max length of 50 chars)
    - start_date (Date)
    - end_date (Date)
    - owner (User, cascade on delete)
- Methods
    - __str__(self)
        - String representation of calendar

Timeslot
- Attributes
    - start_time (DateTime)
    - end_time (DateTime)
    - calendar (Calendar model)
    - high_priority (boolean, default=False)
- Methods
    - __str__(self)
        - String representation of timeslot

Event
- Attributes
    - timeslot (Timeslot model)
    - contact (Contact model)
    - confirmed (boolean, default=False)
- Methods
    - __str__(self)

User
- Attributes
    - first_name (CharField, max length is 120 characters)
    - last_name (CharField, max length is 120 characters)
    - email (EmailField, must be unique, max length is 120 characters)
    - From the default User model
        - password
- Methods
    - __str__(self)
        - String representation of User

Invitee
- Attributes
    - Calendar (many to one)
    - Contact (one to one)
- Methods

- ○ __str__(self)
  - ■ String representation of Invitee

Contact
- ● Attributes
  - ○ first_name (CharField, max length is 120 characters)
  - ○ last_name (CharField, max length is 120 characters)
  - ○ email (EmailField, must be unique, max length is 120 characters)
  - ○ user (User model, cascade on delete)
  - ○ image (ImageField, optional)
- ● Methods
  - ○ __str__(self)
    - ■ String representation of Contact

APIs

User Management

- **Create User Account**
    - Endpoint: **/api/accounts/signup/**
    - Method: GET, POST
    - Fields/Payload: first_name, last_name, username, email, password, repeat_password
    - Description: Allows for the creation of user accounts with basic information.
- **User Login/Authentication**
    - Endpoint: **/api/accounts/signin/**
    - Method: GET, POST
    - Fields/Payload: email, password
    - Description: Authenticates users and provides a token.
- **Update User Profile**
    - Endpoint: **/api/accounts/profile/**
    - Method: GET, PUT
    - Fields/Payload: first_name, last_name, username, email, password
    - Description: Updates a user's profile information.
- **Extra feature**
    - **Deleting User Profile**
        - Endpoint: **/api/accounts/delete/**
        - Method: DELETE
        - Description: Deletes a user's profile.

Contacts Management

- **Create/Manage Contacts**
    - Endpoint: **/api/contacts/**
    - Method: GET, POST
    - Fields/Payload: first_name, last_name, email, user
    - Description: Allows users to retrieve their contacts list and add new contacts.
- **Delete Contact**
    - Endpoint: **/api/contacts/<contact_id>/**
    - Method: DELETE
    - Description: Allows users to delete specific contacts.

Calendar and Time Slot Management

- **Create/Get Calendars**
    - Endpoint: **/api/calendars/**
    - Method: POST, GET
    - Fields/Payload: name, start_date, end_date, owner
    - Description: Enables users to create a new calendar, or list existing calendars.
- **Get Calendar/Add Timeslot**
    - Endpoint: **/api/calendars/<calendar_id>/**
    - Method: GET, POST, DELETE
    - Fields/Payload:

- ■ GET: name, start_date, end_date, owner
- ■ POST: start_time, end_time
  - ● Description: Allows adding new timeslots to a calendar or retrieve the calendar/timeslots associated with the calendar
- **Invite Invitee to Calendar**
  - ● Endpoint: **/api/calendars/<calendar_id>/contacts/<contact_id>**
  - ● Method: POST
  - ● Fields/Payload:
    - ■ id, calendar_id, contact_id
  - ● Description: Create an invitee and associate it with a contact and calendar
  - ● Note: This is different from creating an event as events are created when the invitee confirms their choices
- **Timeslot Update/Destroy**
  - ● Endpoint: **/api/calendars/<calendar_id>/timeslots/<timeslot_id>/**
  - ● Method: DELETE, PUT
    - ■ PUT: start_time, end_time
  - ● Description: Allows deleting a specific timeslot from a calendar or updating existing ones, including specifying availability and preference levels.
- **Get Timeslots For Calendar**
  - ● Endpoint: **/api/calendars/<calendar_id>/timeslots/**
  - ● Method: GET
  - ● Description: Allows contacts to access timeslots for a calendar
- **View Suggested Schedules**
  - ● Endpoint: **/api/calendars/<calendar_id>/suggested/**
  - ● Method: GET
  - ● Description: Allows users to see suggested schedules.

Event Scheduling and Invitations

- **View Events in Timeslot**
  - ● Endpoint: **/api/timeslots/<timeslot_id>/events/**
  - ● Method: GET
  - ● Description: View events in the timeslot.
- **Schedule Event**
  - ● Endpoint: **/api/events/**
  - ● Method: POST
  - ● Description: Create a new event based on Contact's input
  - ● Payload:

    {
    'calendar': <calendar_id>
    'timeslot': <timeslot_id>,
    'contact': <contact_id>
    }

- **Get Event Status, Finalize event**
  - ● Endpoint: **/api/events/<event_id>**
  - ● Method: GET, PUT

- Description: Get invitation status for an event. Finalizes a meeting schedule and notifies all participants. Send email to the finalized event's contact, and undo confirmation on every other event associated with the same time slot.