

# SMP - Code Organization

## Backend Directory Structure

```
backend
├── manage.py
├── core
│   ├── asgi.py
│   ├── settings.py
│   ├── urls.py
│   ├── wsgi.py
│   └── __init__.py
├── server
│   ├── admin.py
│   ├── apps.py
│   ├── data_populate_for_testing
│   │   ├── populateAdmin.sql
│   │   ├── populateCandidate.sql
│   │   ├── populateMeetings.sql
│   │   ├── populateMentee.sql
│   │   ├── populateMentor.sql
│   │   └── populate_Data_for_testing.sql
│   ├── tests
│   │   ├── db_test_addCandidate.py
│   │   ├── db_test_addMeeting.py
│   │   ├── db_test_addMentee.py
│   │   ├── db_test_createMentorMenteePairs.py
│   │   ├── db_test_deleteMeetingById.py
│   │   ├── db_test_deleteMenteeById.py
│   │   ├── db_test_editMeetingById.py
│   │   ├── db_test_formStatus.py
│   │   ├── db_test_getAttendance.py
│   │   ├── db_test_getMeetings.py
│   │   ├── db_test_submitForms.py
│   │   ├── db_test_updateAttendance.py
│   │   ├── test2.py
│   │   └── tests.py
│   ├── MailContent.py
│   ├── models.py
│   └── urls.py
├── migrations
│   ├── 0001_initial.py
│   └── __init__.py
```

```
view
admin_views.py
attendance_views.py
auth_view.py
forms_views.py
helper_functions.py
mail_views.py
meeting_views.py
mentee_views.py
mentor_views.py
mmpairs_views.py
views.py
__init__.py
```

- **backend:** main directory
- **manage.py:** Auto-generated file
- **data\_populate\_for\_testing** (folder): This folder contains SQL scripts to populate data for testing
- **core:** Project Directory Auto-generated by Django (For more details: [django-project-structure](#))
  - **settings.py:** This is where we define the main settings of the application. We updated this to change the database to Postgresql.
- **server** (folder): Our main Application folder
  - **admin.py:** File where we declare/Register the class names defined in the models.py file.
  - **apps.py:** Auto-generated
  - **tests** (folder): Contains all the test scripts
  - **models.py:** Models define the structure of the database. This file contains the tables of the database in the form of a class.
  - **MailContent.py:** Stores the mail content (subject and body) in the form of a JSON. (easy to keep track of and modify)
  - **migrations** (folder): Auto-generated when we convert the models to the actual tables (**cmd:** python3 make migrations). Contains the commands to generate the tables.
  - **urls.py** (folder)(universal resource locator): Contains all the endpoints for the application. This is used to map the endpoints to function defined in views.
  - **view** (folder): This folder contains the main logic of the application in the form of functions. This folder is subdivided into multiple files based on their usage. Each function contains a detail description of what task it performs, input, output and error messages it returns.
    - **admin\_views.py:** Contains all the functions related to admin (GET)
    - **attendance\_views.py:** get and update attendance functions.
    - **auth\_view.py:** Function to authenticate the users.

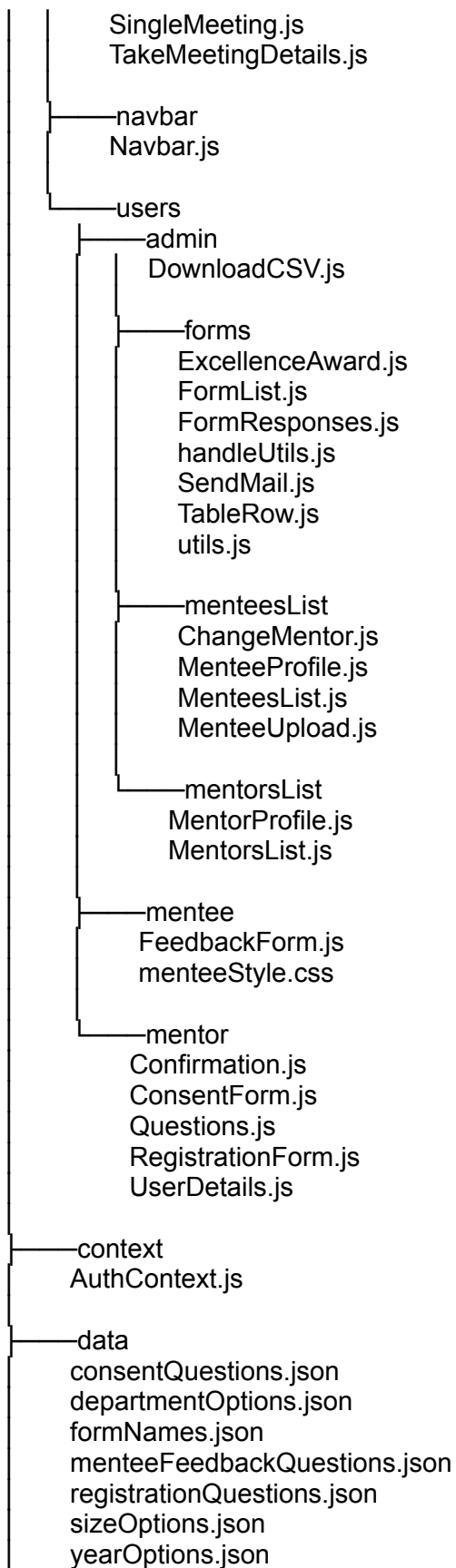
- **forms\_views.py:** Contains all the functions related to forms (GET, ADD and EDIT)
- **helper\_functions.py:** Helper function to send emails (Sending emails takes time, so we are running the logic to send the emails via these functions using threads)
- **mail\_views.py:** Contains the function to return the mail content based on mail type.
- **meeting\_views.py:** Contains all the functions related to meeting (GET, ADD, DELETE and EDIT)
- **mentee\_views.py:** Contains all the functions related to mentee (GET, ADD, DELETE and EDIT)
- **mentor\_views.py:** Contains all the functions related to mentor (GET, ADD, DELETE and EDIT)
- **mmpairs\_views.py:** Contains logic to perform mentor-mentee mapping
- **views.py:** Auto-generated.

## Frontend Directory Structure

```

src
├── App.css
├── App.js
├── App.test.js
├── index.css
├── index.js
├── reportWebVitals.js
├── setupTests.js
├── components
│   ├── style.css
│   ├── Table.js
│   ├── auth
│   │   ├── AuthButton.js
│   │   ├── Login.js
│   │   └── LoginPage.js
│   ├── dashboard
│   │   └── Dashboard.js
│   └── Meetings
│       ├── Attendance.js
│       ├── Formelement.js
│       ├── MeetingList.js
│       └── ScheduleMeetingButton.js

```



```

|
|— images
|   delete_icon.png
|   iiitdrndblock2.jpeg
|   iiitd_logo.jpg
|   iiitd_logo_colour.png
|   iiitd_logo_greyscale.png
|
|— routes
|   PrivateRoute.js

```

- **src/**: Root directory of the project.
- **App.css**: CSS file for styling the main App component.
- **App.js**: Main component of the application.
- **App.test.js**: Test file for the App component.
- **index.css**: CSS file for styling the index file.
- **index.js**: Main entry point of the application.
- **reportWebVitals.js**: File for reporting web vitals.
- **setupTests.js**: File for setting up tests.
- **components/**: Directory containing various reusable components.
- **components/style.css**: CSS file for styling the components.
- **components/Table.js**: Component for rendering tables.
- **components/auth/**: Directory for authentication-related components.
- **components/dashboard/**: Directory for dashboard-related components.
- **components/Meetings/**: Directory for meeting-related components.
- **components/navbar/**: Directory for navbar-related components.
- **components/users/**: Directory for user-related components.
- **components/users/admin/**: Directory for admin-specific user components.
- **components/users/admin/DownloadCSV.js**: Component for downloading CSV files.
- **components/users/admin/forms/**: Directory for form-related components used by admin.
- **components/users/mentee/**: Directory for mentee-specific user components.
- **components/users/mentor/**: Directory for mentor-specific user components.
- **context/**: Directory for application context.
- **context/AuthContext.js**: Context file for authentication.
- **data/**: Directory for storing static data.
- **Files within data/**: JSON files containing various data.
- **images/**: Directory for storing image assets.
- **Files within images/**: Image files used in the application.
- **routes/**: Directory for routing-related components.
- **routes/PrivateRoute.js**: Component for defining private routes in the application