

Code documentation:

- **def send_email:**
This function is responsible for sending an email. It takes the sender's email address, receiver's email address, email subject, and message content as input parameters.
- **Def process_login**
This route handles the processing of user login attempts. It verifies the provided username and password combination against records stored in the database for both mentees and mentors. Upon successful authentication, it redirects the user to their respective dashboard. If the login attempt fails, it renders the login page again with an error message indicating incorrect credentials.
- **Def dashboard_mentee**
This renders the dashboard for a mentee user. It retrieves information about the mentee from the database and fetches tags from the database to populate the search for courses section.
- **Def dashboard_mentor**
This renders the dashboard for a mentor user. It retrieves information about the mentor from the database. Additionally, it fetches all courses associated with the mentor from the database.
- **Def signup**
This handles the signup process for both mentees and mentors. After validating the form data, it inserts the user's information into the respective database. For mentors, it also saves the uploaded resume file. Upon successful signup, it sends a confirmation email to the user's provided email address.
- **Def user_category**
This handles the selection of user category (mentee or mentor). After receiving the user's selection, it renders the signup form based on the selected category.
- **Def profile_mentee**
This is responsible for displaying and updating the profile of a mentee. When accessed via GET, it retrieves the mentee's profile details from the database. If accessed via POST, it processes the updated profile details submitted by the mentee, updates the database accordingly, and renders the updated profile page.
- **Def profile_mentor**
This is responsible for displaying and updating the profile of a mentor. When accessed via GET, it retrieves the mentor's profile details from the database. If accessed via POST, it processes the updated profile details submitted by the mentor, updates the database accordingly, and renders the updated profile page.
- **Def view_file**
- **Def view_mentees**
This is responsible for retrieving and displaying mentees enrolled in a specific course.
- **Def view_mentor_profile**
This is responsible for viewing and managing the profile of a mentor. It retrieves the mentor's profile details and renders a web page displaying the profile. It allows the administrator to approve or reject the mentor's profile.

- `Def create_program`
This allows a mentor to create a new program/course. It renders a form for the mentor to input program details and then processes the submitted form data to create a new program/course.
- `Def forgot_password`
This allows users to reset their passwords if they have forgotten them. It renders a form for users to input their username and email. It handles the password reset process, including sending an OTP to the user's email and updating the password if the OTP is correct.
- `Def admin`
This serves as the dashboard for the administrator, providing access to various functionalities for managing the platform. It retrieves information about unapproved mentors, unapproved courses, and pending complaints and handles actions taken by the administrator, such as approving mentors or courses and resolving complaints.
- `Def add_tag`
This allows administrator to add new tags to the system.
- `Def view_course`
This is used to view details about a specific course. Administrators can view course details, mentees enrolled in the course, and approve or reject course proposals. Mentees and mentors can also view course details.
- `Def process_viewer_request`
- `Def payment`
This facilitates the payment process for a course. Upon successful payment, it registers the mentee for the course and sends confirmation emails to both the mentee and the mentor.
- `Def my_courses`
This route retrieves and displays the courses enrolled by a mentee.
- `Def submit_mentee_complaint`
This route allows mentees to submit complaints.
- `Def submit_mentor_complaint`
This route allows mentors to submit complaints.
- `Def search_sort_filter`
This method is responsible for sorting, searching, and filtering data based on the provided parameters. It primarily deals with retrieving course data from the database, applying sorting options, filtering by tags, and searching for courses based on mentor/course name.
- `Def messages`
This method displays all previous messages of a particular course. All important announcements made are displayed from the database.
- `Def handle_new_message`
This method receives the new message input by the user and add it to the database. It also uses socketio to handle real time chatting . The new message is emitted.
- `Def feedback`
- `Def logout`

This route handles user logout functionality