### 1. User Authentication APIs

- Register User:
  - Endpoint: POST /api/auth/register/
  - Purpose: Create a new user account with provided credentials and profile information.
- Login User:
  - o Endpoint: POST /api/auth/login/
  - Purpose: Authenticate users and provide authentication tokens (e.g., JWT).
- Logout User:
  - o Endpoint: POST /api/auth/logout/
  - o **Purpose:** Invalidate user sessions and tokens.
- Password Reset:
  - Endpoint: POST /api/auth/password-reset/
  - o **Purpose:** Initiate password reset process by sending reset links to the user's email.
- Password Reset Confirmation:
  - Endpoint: POST /api/auth/password-reset-confirm/
  - Purpose: Confirm and set a new password using the reset token.

## 2. User Profile APIs

- Retrieve User Profile:
  - o Endpoint: GET /api/users/{id}/
  - Purpose: Fetch detailed information about a specific user.
- Update User Profile:
  - Endpoint: PUT /api/users/{id}/
  - **Purpose:** Update comprehensive user profile information.
- Partial Update User Profile:
  - o Endpoint: PATCH /api/users/{id}/
  - Purpose: Partially update user profile fields.

## 3. Dashboard Data APIs

- Upcoming Study Sessions:
  - Endpoint: GET /api/sessions/upcoming/
  - Purpose: Retrieve a list of the user's upcoming study sessions.
- Recent Messages:
  - Endpoint: GET /api/messages/recent/
  - Purpose: Fetch the latest messages from study groups or direct communications.
- Task Summary:
  - Endpoint: GET /api/tasks/summary/
  - Purpose: Get an overview of pending and completed tasks.
- Recent Activity:
  - Endpoint: GET /api/activity/recent/
  - Purpose: Retrieve recent user activities within the platform.
- Personal Achievements:
  - Endpoint: GET /api/achievements/

Purpose: Fetch the user's achievements and earned badges.

## 4. Study Group APIs

- List Study Groups:
  - Endpoint: GET /api/groups/
  - Purpose: Retrieve a list of all available study groups based on filters and sort options.
- Create Study Group:
  - Endpoint: POST /api/groups/
  - Purpose: Create a new study group with specified details.
- Retrieve Study Group Details:
  - o Endpoint: GET /api/groups/{id}/
  - **Purpose:** Fetch detailed information about a specific study group.
- Update Study Group:
  - o Endpoint: PUT /api/groups/{id}/
  - Purpose: Update all details of a specific study group.
- Delete Study Group:
  - Endpoint: DELETE /api/groups/{id}/
  - **Purpose:** Remove a study group from the platform.
- Join Study Group:
  - o Endpoint: POST /api/groups/{id}/join/
  - Purpose: Allow users to join a study group, subject to group privacy settings.
- Leave Study Group:
  - o Endpoint: POST /api/groups/{id}/leave/
  - o **Purpose:** Enable users to leave a study group they are part of.

## 5. Messaging APIs

- Retrieve Group Messages:
  - o Endpoint: GET /api/messages/{group\_id}/
  - o Purpose: Fetch all messages within a specific study group.
- Send Group Message:
  - o Endpoint: POST /api/messages/{group\_id}/
  - Purpose: Send a new message to a study group.

# 6. Task Management APIs

- List Tasks:
  - o Endpoint: GET /api/tasks/
  - o Purpose: Retrieve all tasks assigned to the user.
- Create Task:
  - Endpoint: POST /api/tasks/
  - Purpose: Create a new task or study goal.
- Update Task:
  - o Endpoint: PUT /api/tasks/{id}/
  - o **Purpose:** Update all details of a specific task.
- Partial Update Task:

- o Endpoint: PATCH /api/tasks/{id}/
- o **Purpose:** Partially update fields of a specific task.
- Delete Task:
  - o Endpoint: DELETE /api/tasks/{id}/
  - Purpose: Remove a task from the platform.

### 7. Notifications API

- Retrieve Notifications:
  - Endpoint: GET /api/notifications/
  - o **Purpose:** Fetch all notifications relevant to the user.
- Mark Notification as Read:
  - Endpoint: PUT /api/notifications/{id}/read/
  - o **Purpose:** Mark a specific notification as read.

## 8. Calendar Integration APIs

- Connect External Calendars:
  - Endpoint: POST /api/calendar/connect/
  - Purpose: Initiate connection with external calendar services (e.g., Google Calendar, Outlook).
- Sync Events:
  - Endpoint: POST /api/calendar/events/
  - Purpose: Sync platform events with external calendars.
- Retrieve Calendar Events:
  - Endpoint: GET /api/calendar/events/
  - o **Purpose:** Fetch events from connected external calendars.

# 9. Reminders APIs

- Create Reminder:
  - o Endpoint: POST /api/reminders/
  - **Purpose:** Set a new reminder for a specific event or deadline.
- List Reminders:
  - Endpoint: GET /api/reminders/
  - o **Purpose:** Retrieve all reminders set by the user.
- Update Reminder:
  - o Endpoint: PUT /api/reminders/{id}/
  - o **Purpose:** Update the details of a specific reminder.
- Delete Reminder:
  - o Endpoint: DELETE /api/reminders/{id}/
  - **Purpose:** Remove a reminder from the platform.