Backlog Aurora

# 1. User Registration

* As a user, I want to create an account so that I can access the platform.
* **Acceptance Criteria:**
* Users can sign up using email/password or OAuth (Google, Facebook, etc.).
* A verification email is sent upon registration.

# 2. User Profile Setup

* As a user, I want to set up my profile with a short description about myself, a profile picture, my interests, availability and education status so that I can be matched with relevant study groups.
* **Acceptance Criteria:**
* Users can write a short description about themselves
* Users can select a picture as their avatar
* Users can select interests from a predefined list or add custom courses.
* Users can input their preferred study times.

# 3. User Login & Authentication

* As a user, I want to log in securely so that I can access my study groups and resources.
* **Acceptance Criteria:**
* Users can log in using email/password or OAuth.
* Password reset functionality is available.
* Authentication tokens expire after a set period.

# 4. Real-Time Chat

* As a study group member, I want to chat with my group in real-time so that we can communicate effectively.
* **Acceptance Criteria:**
* Messages are delivered instantly using WebSockets.
* Chat history is stored and retrievable.
* Users can send attachments (e.g., PDFs, images).

# 5. Web Real-Time Communication

* As a study group member, I want to start and join video calls with my group so that we can discuss topics in real-time.
* **Acceptance Criteria:**
* Users can start a video call from within their study group.
* Group members receive a notification/invite to join the call.
* The video call supports basic controls (mute/unmute, turn camera on/off, screen sharing).
* The platform uses WebRTC for video streaming.
* Users can share their screen.
* Calls can support up to a set number of participants (e.g., 10).

# 6. Collaborative Document Editing

* As a study group member, I want to collaboratively edit documents with my study group so that we can take notes together.
* **Acceptance Criteria:**
* Users can create and edit Markdown-based documents.
* Changes are visible in real time.
* Documents can be exported as PDF or Word files.

# 7. Upload Lecture Notes

* As a user, I want to upload my lecture notes so that the platform can generate practice quizzes.
* **Acceptance Criteria:**
* Users can upload text-based files (TXT, PDF, DOCX).
* AI processes text and extracts key concepts.

# 8. Auto-Generate Quiz Questions

* As a user, I want the platform to generate quiz questions from my uploaded notes so that I can test my knowledge.
* **Acceptance Criteria:**
* AI generates multiple-choice and short-answer questions.
* Users can edit or regenerate quiz questions.
* Quizzes can be saved and shared with group members.

# 9. Take & Review Quizzes

* As a user, I want to take quizzes and review my answers so that I can assess my understanding.
* **Acceptance Criteria:**
* Users can answer quizzes with instant feedback.
* Correct answers are shown after submission.
* Users can retake quizzes or attempt new ones.

# 10. Schedule a Study Session

* As a study group member, I want to schedule a study session so that we can meet at a set time.
* Acceptance Criteria:
* Users can create a study session with date, time, and location (online or offline).
* Notifications are sent to group members.

# 11. User Calendar

* As a user, I want a personal calendar where I can schedule study sessions and deadlines so that I can stay organized.
* **Acceptance Criteria:**
* Users can add, edit, and delete study events (e.g., study sessions, assignment deadlines, exam dates).
* Events include a title, date, time, and optional description.
* The calendar supports daily, weekly, and monthly views.
* Users can filter events by category (e.g., study sessions, exams, assignments).

# 12. Study Group Creation

* As a user, I want to create my own study group and invite others so that I can collaborate with my chosen peers.
* **Acceptance Criteria:**
* Users can create a study group and set its visibility (public/private).
* Users can invite others by username.
* Admins can remove members from the group.

# 13. Group Recommendation

* As a user, I want to be matched with study groups based on my courses and schedule so that I can collaborate effectively.
* **Acceptance Criteria:**
* The platform suggests study groups based on interests.
* The user can accept or decline study group invitations.

# 14. Search & Join Public Study Groups

* As a user, I want to search for public study groups so that I can join relevant ones.
* **Acceptance Criteria:**
* Users can search by interest and name.
* Users can join a public group or request to join a private one.

# 15. Admin Moderation & User Management

* As a platform admin, I want to monitor and manage study groups and users so that the platform remains safe and appropriate for all users.
* **Acceptance Criteria:**
* Admins can view a list of all study groups and users.
* Admins can delete study groups that contain inappropriate content.
* Admins can temporarily or permanently ban users who violate community guidelines.

# 16. Direct Messaging

* As a user, I want to send direct messages to other users so that I can communicate privately outside of study groups.
* **Acceptance Criteria:**
* Users can search for and select another user to start a conversation.
* Messages are delivered in real-time using WebSockets.
* Users can send text messages and attachments (e.g., PDFs, images).
* Message history is stored and accessible when reopening the chat.
* Users can mute or block other users to prevent unwanted messages.