Frontend Requirements

1. User Roles & Authentication

Login & Registration:

- Register and login pages for professors and students.
- o OAuth or email-password authentication.
- o Password recovery option.

2. Dashboard & Navigation

• Professor Dashboard:

- o Upload documents (PDF/Word).
- View and manage uploaded materials.
- o See Al-generated flashcards before publishing.
- o View each student's progress and leaderboard.

Student Dashboard:

- o Browse subjects.
- Select a subject and start answering flashcards.
- View progress and leaderboard.

3. Flashcard Interaction

Flashcard Display:

- o Display one question at a time with multiple-choice answers (A, B, C, D).
- Timer option for answering.
- o Immediate feedback (green/red flashing based on chosen correct/incorrect answer).

4. Leaderboard

Ranking System:

- o Display top 5 students based on scores.
- o Sorting/filtering (e.g., weekly, monthly, subject-based).
- o Profile picture and username display.

5. Al Processing Status (For Professors)

Document Processing Indicator:

- Show upload progress.
- o Notify when AI-generated flashcards are ready.

6. General UI/UX Considerations

- **Responsive Layout:** Scales properly for different screen sizes.
- User-Friendly Navigation: Clear menu options.