

Core Functionalities

1. User Authentication

- Signup & login
- JWT token handling for session
- Forgot/reset password (optional)

2. Dashboard

- Overview of current study sessions
- Quick access to main features

3. Study Sessions

- Create a new session
 - Input: topic, duration, difficulty
 - Options: Add notes or resources
- View active or past sessions
- Track session completion

4. AI Study Assistance

- AI-based recommendations for study topics
- Summaries or key points for a topic
- Question generation / quiz for practice

5. Progress Tracking

- Session history
- Stats (hours studied, topics covered, accuracy in quizzes)

- Graphical representation (charts)

6. Notes & Resources

- Save notes per topic/session
 - Upload/attach files or links (optional)
 - Search notes
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Frontend Pages & Components

1. Login / Signup Page

- **Inputs:** Email, Password (confirm password for signup)
- **Buttons:** Login / Signup
- **Links:** Forgot Password, Switch to Signup/Login
- **Optional:** Social login buttons (Google, GitHub)

2. Dashboard

- **Sections:**
 - Welcome message (e.g., "Hello, [Name]!")
 - Quick stats (total hours studied, topics completed)
 - Buttons/cards for main features:
 - Start New Session
 - View Sessions
 - AI Assistant

- Notes
- Progress

- **Optional:** Notifications (reminders, tips)

3. New Study Session Page

- **Inputs:**
 - Topic (text)
 - Duration (dropdown or number input)
 - Difficulty (dropdown)
 - Notes (textarea)
- **Buttons:**
 - Start Session
 - Cancel

4. Active / Past Sessions Page

- **List/Table:**
 - Topic, Duration, Date, Completion Status
 - Buttons for each session: View Details, Edit, Delete
- **Optional:** Filter by topic/date

5. AI Study Assistant Page

- **Inputs:**
 - Textbox for topic/question

- **Buttons:**
 - Generate Summary
 - Generate Quiz
- **Display Area:** Show AI response (summary or quiz questions)

6. Progress Page

- **Charts:** (can use Recharts or Chart.js)
 - Total study time over time
 - Topics covered
 - Quiz accuracy
- **Filters:** Select time range (week, month, all-time)

7. Notes / Resources Page

- **List of Notes:** Title, Topic, Date
- **Buttons:**
 - Add Note
 - Edit
 - Delete
- **Optional:** Search bar, upload file button