**Study App Concept and User Flow Document**

**App Title: SmartPrep**

**Overview:**

SmartPrep is a web-based study productivity platform designed primarily for students. It provides tools to support efficient studying through session planning, flashcards, mock exams, personalized analytics, and community collaboration. The app blends goal setting, AI-driven recommendations, and motivational elements (leaderboards, music, and score tracking) to enhance focus and learning outcomes.

**Key Features:**

1. **User Authentication**
   * User registration and login
   * Account profile customization
2. **Resource Management**
   * Upload PDFs, images, or text-based materials
   * Categorize by subject/topic
   * Share resources with peers
3. **Flashcards System**
   * Generate flashcards from uploaded content (manual and automatic)
   * Organize cards into decks, shuffle, edit, delete
   * Mark cards as mastered
4. **Mock Exams**
   * Create customized mock exams
   * Save and review past exams
   * Analyze strengths and weaknesses
5. **Study Sessions**
   * Create, join (public/private), and schedule study sessions
   * Timer with mood/focus logging
   * Notifications and reminders for sessions
   * Rate and filter sessions by topic
6. **Study Music Integration**
   * Lo-fi and instrumental playlists during sessions
7. **Productivity Tools**
   * Set and track study goals
   * To-do lists and automated study schedule generation
   * AI study tips and session-based analysis
8. **Gamification**
   * Score tracking based on time studied
   * Leaderboard ranking by time and consistency

**User Flow:**

1. **Onboarding**
   * New users register or log in
   * Onboarding walkthrough highlights features
   * User sets basic preferences (subjects, goals, preferred study times)
2. **Home Dashboard**
   * Overview of study score, progress toward goals, upcoming sessions, and motivational stats (e.g. leaderboard rank)
3. **Resource Center**
   * Upload and categorize materials
   * View shared resources
   * Convert material into flashcards or mock exams
4. **Flashcards**
   * Access decks by topic
   * Study (with shuffle/mastered view)
   * Export or edit decks
5. **Mock Exams**
   * Configure settings
   * Take exams
   * Save and review results
6. **Sessions**
   * View available public sessions
   * Filter by subject
   * Create private sessions and invite peers
   * Start timer, log mood/focus, and access music player
7. **Productivity Tools**
   * View to-do list
   * Generate smart study schedule based on availability
   * Receive AI tips based on past session data
8. **Gamification and Analytics**
   * View leaderboard (daily/weekly/monthly)
   * Track study score and performance trends

**Target Audience:**

* University students
* High school learners preparing for exams
* Study groups and academic clubs

**Tech Stack :**

* **Backend:** ASP.NET Core (C#)
* **Frontend:** HTML, CSS
* **Database:** MongoDB