

NextGen Prep – Feature Overview

1. Learning & Assessment System

- Subject-wise practice mode with instant feedback
- Mock test mode with 100 MCQs per test
- Time-bound examinations with final evaluation
- Randomized question sets
- Topic-wise and difficulty-based filtering

2. Intelligent Question Generation

- MCQ generation from PDF and DOCX files
- Automated text extraction and preprocessing
- AI-generated questions saved as drafts
- Admin review and approval workflow
- Question categorization by subject and difficulty

3. AI-Powered Learning Assistant

- Personal AI tutor for each user
- Concept explanations based on user mistakes
- Performance-aware learning guidance
- Syllabus-aligned and controlled responses
- Revision and exam strategy assistance

4. Content Summarization System

- YouTube video summarization
- PDF and document summarization
- Exam-oriented and bullet-point summaries
- Saved summaries for future access

5. Notes Management System

- Admin-uploaded verified study notes
- Subject-wise public notes access
- Private note space for each user
- Upload and manage personal study materials

6. User Progress & Analytics Dashboard

- Subject-wise accuracy tracking
- Practice vs mock test comparison
- Weak-area identification
- Performance trends and visual analytics

7. Administration & Moderation System

- Admin dashboard for content control
- Approval of AI-generated questions
- Subject and topic management
- System-wide performance insights

8. System & Experience Features

- Secure authentication and authorization
- Scalable and modular backend architecture
- Optimized performance and caching
- Clean and user-friendly interface