

# Learning Management System (LMS) Mobile App Documentation

## 1. Overview & Purpose

The LMS mobile app is designed to provide an intuitive and interactive learning experience for users. It allows students to enroll in courses, track progress, take quizzes, and interact with instructors. The app ensures seamless learning with a modern UI/UX, making education more accessible and engaging. The design follows a **Green and Blue color scheme** to maintain a professional and appealing look.

## 2. Core Features

### 2.1 User Authentication & Profile Management

- User registration (Students & Instructors)
- Login via email & password
- Profile editing (name, photo, bio, etc.)
- Password reset functionality
- Social media & Google login integration

### 2.2 Dashboard

- Welcome message & personalized recommendations
- List of enrolled courses with progress tracking
- Quick navigation to important sections (Courses, Quizzes, Profile)

### 2.3 Course Management

- Browse available courses with descriptions
- Enroll in free/paid courses
- Video lectures (live & recorded), PDFs, and assignments
- Course progress tracking
- Discussion forums for student-instructor interaction
- AI-powered course recommendations
- Study Materials: Downloadable PDFs, notes, and reference content for each course

### 2.4 Live & Recorded Classes

- Live video streaming via Zoom/Jitsi
- Recorded sessions for later viewing
- In-class polls and Q&A sessions
- Automated attendance tracking

### 2.5 Quiz & Assessment System

- Timed and untimed quizzes
- Multiple-choice, true/false, and short-answer questions
- Instant grading and score display
- Retry options for quizzes (if enabled by instructor)
- **Solution Explanation:** Detailed explanations for each quiz question to enhance learning

## 2.6 Notifications & Reminders

- Course updates & announcements
- Upcoming quizzes and deadlines
- Certificate issuance upon course completion
- Personalized learning suggestions

## 2.7 Payment & Subscription

- Secure payment gateway integration (Stripe/razorpay)
- Subscription plans for premium courses
- One-time purchases & discounts
- Purchase history and invoices

## 2.8 Community Engagement

- Badges & leaderboards for top performers
- Discussion forums and peer-to-peer learning
- AI chatbot for instant student support
- Study groups & mentor guidance

## 2.9 Offline Learning Mode

- Download courses for offline viewing
- Sync progress when reconnected to the internet

## 2.10 Student Challenges & Progression System

- Subject-based challenges for students
- A student must complete **four tasks** before advancing to the next level
- Tasks can include quizzes, assignments, discussions, or other learning activities
- If the student has completed four tasks, they must **complete payment or subscription requirements** (if applicable) before proceeding to the next level
- This gamified approach enhances student engagement and learning motivation
- **Solution Explanation for Challenges:** Students receive detailed explanations for challenge solutions to understand concepts better

## 2.11 Success Stories

- Student testimonials and achievements
- Featured stories of top-performing students
- Inspirational content to motivate learners

## 2.12 Mock Tests

- Full-length mock tests for various courses
- Timed and untimed practice exams

- Detailed performance analysis and feedback

### **2.13 Practice & Revision Section**

- Dedicated section for students to practice concepts
- Review past quizzes and assignments
- Topic-wise practice tests for better understanding

### **2.14 Doubt Completion**

- Dedicated section for students to post and resolve doubts
- Instructor and peer support for doubt clarification
- AI-based suggestions for related concepts and answers

### **2.15 Recommendation System**

- AI-driven personalized course recommendations
- Suggested quizzes and assignments based on student progress
- Adaptive learning paths based on performance and interests

## **3. User Roles & Permissions**

### **3.1 Students**

- Enroll and take courses
- Attempt quizzes & track scores
- Interact in discussion forums
- View and manage their profile

### **3.2 Instructors**

- Create and manage courses
- Upload lectures & course materials
- Conduct live classes
- Review student progress
- Assess quiz submissions

### **3.3 Admin**

- Manage users and roles
- Approve or reject course submissions
- Monitor platform analytics and reports
- Set up payment plans & promotional offers

## **4. App Structure & Pages**

- **Total Number of Pages:** 26

- **Key Pages:**
  - Home
  - Course Catalog
  - Course Details
  - Live Classes
  - Quizzes
  - Profile
  - Notifications
  - Payment & Subscription
  - Discussion Forums
  - Offline Learning
  - Scholarship
  - Practice & Revision
  - Mock Tests
  - Success Stories
  - Study Materials
  - Recommendation System
- **Admin Pages:**
  - User Management
  - Course Approval
  - Payment & Subscription Management
  - Reports & Monitoring
- **Instructor Pages:**
  - Course Creation & Management
  - Lecture Uploads (Videos, PDFs, Assignments)
  - Student Progress Tracking
  - Quiz & Assessment Review
  - Live Session Management

## 5. Conclusion

- Innovative & Scalable: The future of digital learning
- User-friendly & Engaging: Ensuring effective education
- Next Steps: Further AI integration & feature enhancements

## 6. References: unacademy, byju's, E - learning app, <https://codecanyon.net/category/mobile/flutter?term=lms>

