**LMS application relevant all features:**

**1. Authentication & User Management**

* User login with role-based access (Admin, Instructor, Student)
* Social login (Google, Facebook)
* Two-factor authentication (2FA)
* Captcha
* User Deactivation and Banning
* Automatic lockout after multiple failed login attempts
* Allow users to request data deletion or download account data
* Forgot password and reset password feature
* Security alerts for unusual activity

**2. Dashboard (Role-Based)**

* **Admin Dashboard:**
  + User management (view, edit, delete users)
  + Course management (approve or delete courses)
  + Analytics (active users, course engagement, revenue)
* **Instructor Dashboard:**
  + Create and manage courses
  + View student progress and feedback
  + Revenue analytics
* **Student Dashboard:**
  + Track enrolled courses
  + Star balance for early access rewards
  + View achievements and leaderboards

**3. Course Management**

* Video, quiz, and assignment content creation
* Auto-publishing or scheduling courses
* Course preview and drafts

**4. Early Access with Stars System**

* Students earn stars by completing tasks
* Redeem stars for early access to premium courses
* Star leaderboard for gamification

**5. Course Locking Mechanism**

* Lock lessons based on:
  + Completion of previous lessons
  + Minimum quiz scores
  + Participation in discussions

**6. Course Player**

* Interactive video player
* Lesson progress tracking
* Material downloads (PDFs)
* Bookmark lessons
* Split-screen for notes and video

**7. Payment and Subscription**

* Payment gateways (Stripe, PayPal, sslcommerce)
* Multiple subscription plans (monthly/yearly)
* Coupons and discounts
* Invoice generation

**8. Achievements**

* Badges for achievements
* Leaderboards for top-performing students
* Course completion certificates
* Star rewards for course activities

**9. Quizzes & Assignments**

* Timed and untimed quizzes
* Multiple question types (MCQs, coding)
* Manual and auto grading for assignments
* Plagiarism detection

**10. Community & Interaction**

* Discussion boards per course
* Direct messaging between students and instructors
* Live sessions
* Student Q&A forums

**11. Notification System**

* Real-time notifications for assignments, quizzes, and announcements
* Email and in-app notifications

**12. Analytics & Reporting**

* Student activity tracking
* Course engagement analytics
* Instructor revenue tracking
* Admin reports

**13. Certification Management**

* Auto-generate course certificates
* Shareable certificates

**14. Admin Panel**

* Role and permission management
* User moderation
* Course updating

**15. Support & Help**

* Support ticketing system
* FAQ section
* Contact form