SKILLORA
ONLINE COURSE PLATFORM

INTRODUCTION AND DESCRIPTION

SkillOra is a full-stack web application developed using the MERN stack (MongoDB, Express.js, React.js, and Node.js). The main objective of this project is to create an interactive and user-friendly digital learning environment where students, instructors, and administrators can collaborate efficiently within a single system.

In today's digital age, online education has become an essential part of the learning ecosystem. This platform is designed to bridge the gap between learners and educators by providing a seamless experience for creating, managing, and accessing online courses. It allows instructors to design and publish educational content, students to purchase and learn from those courses, and administrators to monitor and manage overall platform operations.

The system comprises three primary modules — Admin, Instructor, and Student — each with distinct functionalities and permissions. The Admin manages the platform by reviewing and approving courses submitted by instructors, handling course and user data, and monitoring all financial transactions through the wallet system. The Instructor can create, update, and manage courses, including uploading videos, notes, and assessments, as well as track course performance, view student enrollments, and monitor earnings. The Student can explore available courses, purchase and learn from them, take assessments, and earn completion certificates while managing their profile and tracking their learning progress through a personalized dashboard.

The platform provides secure authentication for different user roles, ensuring that each user can access only the features relevant to their role. It also includes integrated wallet and transaction management, automated course approval mechanisms, and a certificate generation system for course completion.

By leveraging the MERN stack, this project ensures a scalable, efficient, and responsive learning management system that delivers a modern educational experience. The Online Course Platform not only promotes e-learning but also empowers instructors to monetize their knowledge and skills effectively while maintaining transparency and ease of use for all users.

PROJECT SCOPE AND KEY FEATURES

1. User Module (Before Login)

- Browse the list of available courses without logging in.

- View basic course details such as title, description, and overview.

- Restricted actions: cannot add to cart or purchase without logging in.

- Option to log in as either **Student** or **Instructor** based on user type.

- Ensures **role-based access control** for secure and appropriate feature access.

2. Instructor Module

- Full control over course creation and management.

- Dashboard divided into **Submitted Courses** and **Approved Courses** sections.

- Upload new courses that await **admin approval** before becoming public.

- Add essential course details — title, description, thumbnail, requirements, and summary.

- Create up to **five chapters per course**, each with:

    - A video

    - Notes

    - Assessment questions with answers

- Edit or update existing courses with previous data preloaded for easy modification.

- **Wallet Page:**

- View total earnings and transaction history.

- See which students purchased courses and the revenue earned.

- **Profile Page:**

- View and update personal information.

3. Admin Module

- Acts as the **central control system** for the entire platform.

- Manage courses, instructors, and financial transactions.

- View all instructor-uploaded courses categorized as:

  - **Approved Courses**

  - **Not Approved Courses**

- Review course details including overviews, chapters, videos, notes, and assessments.

- **Approve or Delete** courses:

  - Approved → visible for students to purchase.

  - Deleted → permanently removed.

- **Admin Status Page:**

  - Monitor all platform transactions.

  - Automatic payment split (60% Instructor / 40% Admin).

  - Maintain transparent financial records.

- **Admin Profile Section:**

  - View and update admin details.

  - Ensure data accuracy and system integrity.

4. Student Module

- Explore all available courses with detailed descriptions.

- Add courses to **Cart** or purchase them directly.

- **Cart Page:** view courses added but not yet purchased.

- **My Activity Page:** track purchased and completed courses.

- Access all course materials including videos, notes, and quizzes.

- Complete assessments to mark courses as **Completed**.

- If all answers are correct → download **Course Completion Certificate (PDF)**.

- If incorrect → redirected to review materials.

- Track progress and course status through an organized dashboard.

- **Profile Page:** view and update personal information anytime.

CONCLUSION & SUMMARY OF REQUIREMENTS

In conclusion, **SkillOra** serves as a comprehensive and efficient online learning platform that seamlessly connects students, instructors, and administrators. By integrating advanced features such as secure role-based authentication, course management, assessment tracking, wallet and transaction handling, and certificate generation, the platform ensures a smooth and engaging educational experience for all users. Leveraging the MERN stack, SkillOra offers a scalable, responsive, and user-friendly environment that not only facilitates learning but also enables instructors to share and monetize their expertise. Overall, this project demonstrates the potential of modern web technologies to transform digital education and create an accessible, interactive, and well-organized learning ecosystem.

FUTURE ENHANCEMENTS

- Integrate live classes and webinars with real-time interaction.

- Add discussion forums and community features for student-instructor interaction.

- Provide advanced analytics and reporting for instructors and admins.

- Use AI-powered recommendations to suggest courses to students.