

■ Stripe Payment Integration in LMS

Objective: Integrate Stripe payment gateway into the existing LMS application to handle course purchases and premium plan upgrades securely.

Modules to Work On:

- 1 **1. Frontend (User Panel – FastAPI):** Create a 'Buy Course' or 'Upgrade Plan' page with a 'Pay with Stripe' button triggering payment session and redirecting to success/failure pages.
- 2 **2. Backend (FastAPI – User Panel):** Implement endpoints like create-checkout-session, webhook, and payment-status. Update user access after successful payment.
- 3 **3. Admin Panel (Django):** Add a 'Payments' section to view transactions with details like Transaction ID, User, Amount, Status, and Timestamp.

Deliverables:

- Integration using Stripe test keys.
- FastAPI endpoints for payment initiation and webhook handling.
- Django admin view for transaction monitoring.
- Working demo video showing payment flow and course access.

Evaluation Criteria:

- Functionality – Stripe payment flow works end-to-end.
- Integration – LMS data syncs correctly with payments.
- Code Quality – Clean, modular FastAPI & Django code.
- UI/UX – Simple, intuitive payment interface.
- Documentation – Clear setup and testing steps.

Deadline: Submit by EOD with GitHub repo link, demo video, and optional Postman collection.