Project Design Phase
Solution Architecture

Date	18 -06-2025
Team ID	LTVIP2025TMID53342
Project Name	Learn Hub
Maximum Marks	4 Marks

Solution Architecture:

The solution architecture for **LearnHub** ensures an interactive, scalable, and secure platform focused on skill enhancement. It enables learners to access structured courses, interact with instructors, and track their progress. The architecture is designed for high availability, responsive UI, and seamless integration across all user roles (students, teachers, admins).

Core Features:

✔ **User Registration & Authentication:**
Secure sign-up/login system with role-based access control (student, teacher, admin).

✔ **Course Management:**
Teachers can create and manage courses, upload content, and provide assessments.

✔ **Scenario-Based Learning:**
Interactive modules and real-world simulations for practical learning experiences.

✔ **Progress Tracking & Certificates:**
Real-time progress reports and automated certificate generation after course completion.

✔ **Payment Integration:**
Secure payment gateway for premium courses and subscriptions.

✔ Discussion & Support:
Real-time messaging, discussion forums, and query resolution.

Example - Solution Architecture Diagram: