Project Design Phase Solution Architecture

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| Date | 24 JUNE 2025 |
| Team ID | LTVIP2025TMID59454 |
| Project Name | Learning Hub |
| Maximum Marks | 4 Marks |

Solution Architecture:

The **Learning Hub** architecture is designed to deliver a seamless, scalable, and personalized e-learning experience. It begins with an intuitive **frontend interface** for students, teachers, and administrators, accessible via web and mobile. The **backend application layer** handles user interactions, course management, and business logic through secure APIs. A robust **learning engine** uses AI to recommend personalized content and learning paths. The platform integrates a **content management system** for storing educational materials and a **real-time communication layer** for chat and live classes. With built-in **analytics, notifications, and security**, the architecture ensures engaging, trackable, and secure digital learning.

* Online Classrooms
* **Competitive Exam Preparation**
* Skill Development & Upskilling
* Homework and Progress Tracking
* **Institutional Learning Management**

Example - Solution Architecture Diagram:

