

**Project Design Phase
Solution Architecture**

Date	25.june2025
Team ID	LTVIP2025TMID53135
Project Name	LearnHUB:Your Center For Skill Enhancement
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

Creating an architecture diagram with the following blocks:

- **Frontend (Client App):** React or HTML/CSS/JS (with Material UI/Bootstrap)
- **Axios (API Calls):** Handles communication with backend
- **Backend (Express.js):** Handles routes, authentication, business logic
- **Database (MongoDB):** Stores users, courses, progress, certificates
- **Admin Panel:** Admin manages users, instructors, and content
- **Payment Gateway:** For premium course purchases
- **Authentication:** JWT-based login/signup

Example - Solution Architecture Diagram:

SOLUTION ARCHITECTURE

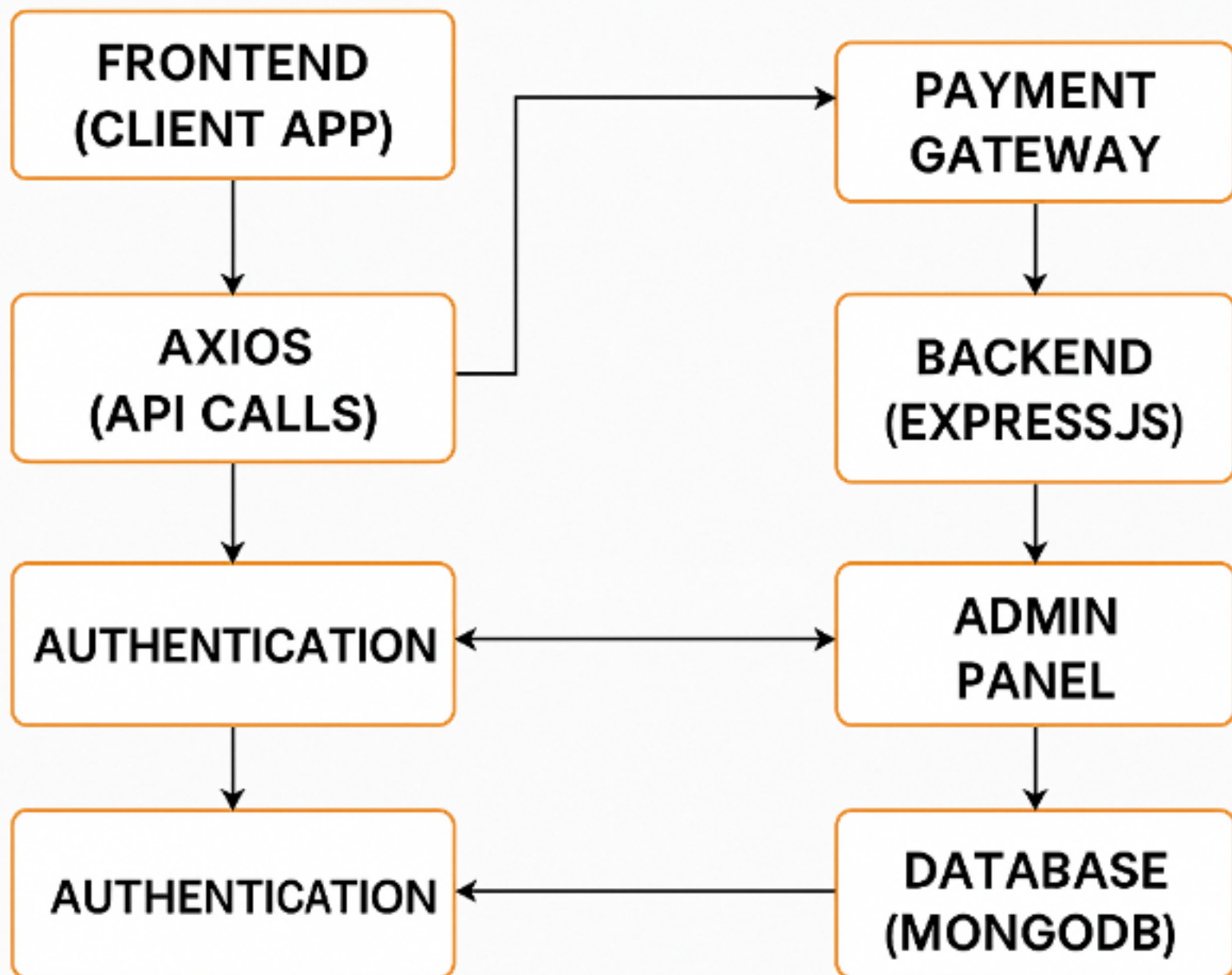


Figure 1: Architecture and data flow of the voice patient diary sample application

Reference: <https://aws.amazon.com/blogs/industries/voice-applications-in-clinical-researchpowered-by-ai-on-aws-part-1-architecture-and-design-considerations/>