**Project Design Phase**

**Solution Architecture**

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

**Solution Architecture:**

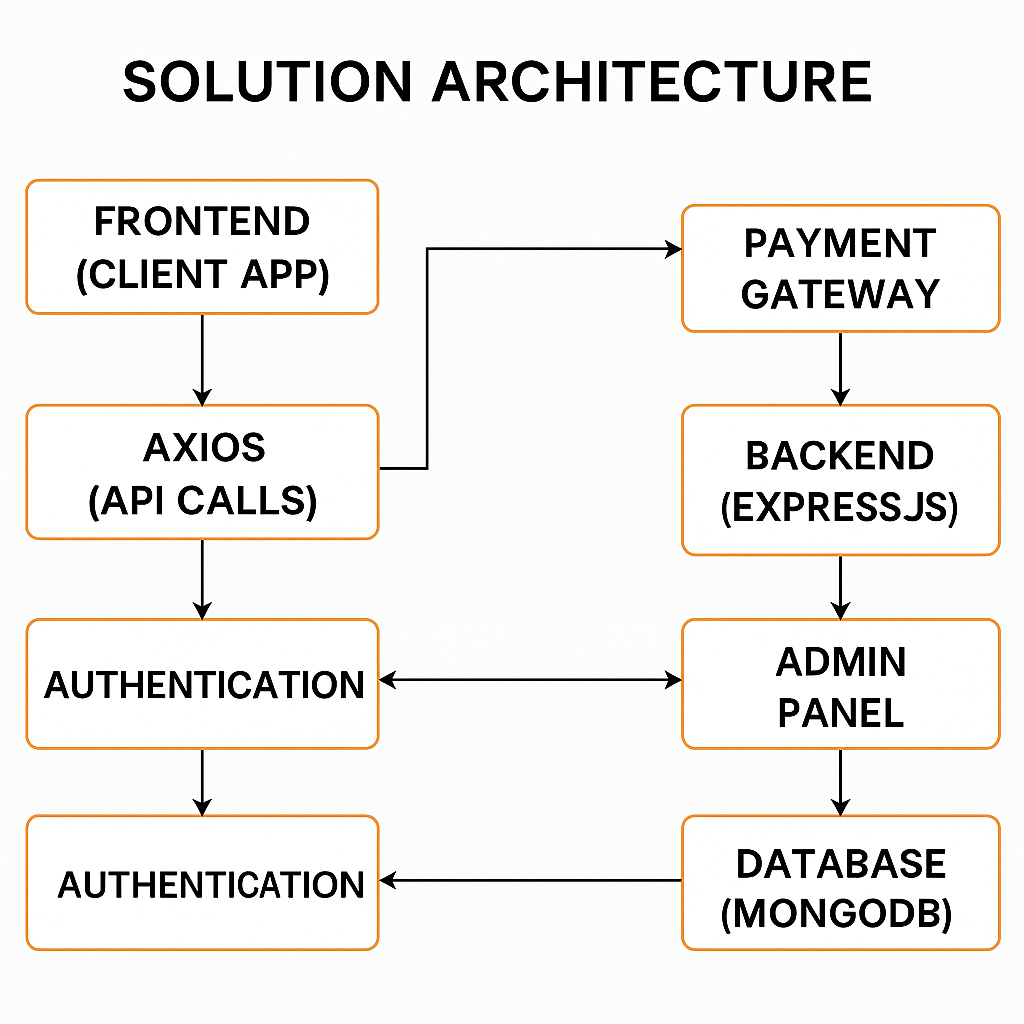
Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

* 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:**



*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/**](https://aws.amazon.com/blogs/industries/voice-applications-in-clinical-research-powered-by-ai-on-aws-part-1-architecture-and-design-considerations/)