**Project Design Phase**

**Solution Architecture**

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| **Date** | **31 January 2025** |
| **Team ID** | **SWTID1741100666** |
| **Project Name** | **FitFlex** |
| **Team Size** | **4** |
| **Team Leader** | **S Praveenkumar** |
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**Solution Architecture:**

The solution architecture for the Fitness Web Application ensures a scalable, efficient, and user-friendly platform for discovering and accessing exercise routines based on body parts and equipment.

**Goals of the Solution Architecture:**

* Identify the Best Tech Solution: Utilize modern front-end frameworks and APIs to provide a seamless fitness discovery experience.
* Define Structure & Characteristics: Ensure modular, scalable, and maintainable software architecture for future enhancements.
* Outline Features & Development Phases: Clearly structure project milestones for effective development and deployment.
* Establish Specifications for Development & Delivery: Provide well-defined guidelines for the system's architecture, API integration, and data flow.

