**Project Design Phase**

**Solution Architecture**

|  |  |
| --- | --- |
| Date | 6 March 2025 |
| Team ID | SWTID1741236577150570 |
| Project Name | FitFlex |
| Maximum Marks | 4 Marks |

|  |  |  |
| --- | --- | --- |
| Team Leader | Hemalatha S | hemalatha1452005@gmail.com |
| Team member 1 | Harshini S | harshini2405@gmail.com |
| Team member 2 | Asshvitha K | asshvithak@gmail.com |
| Team member 3 | Neha K | nehafathima1524@gmail.com |

**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.

