**Project Design Phase-II**

**Technology Stack (Architecture & Stack)**

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| --- | --- |
| Date | 6 March 2025 |
| Team ID | SWTID1741320231146087 |
| Project Name | FitFlex: Your Personal Fitness Companion |
| Maximum Marks | 4 Marks |

**Team Members:**

* **Kamalesh. K – Lead Developer**
* **Aaron. K – Frontend Developer**
* **Gokul. S – API Integration & Backend Support**
* **Kumaran. M – Testing & Debugging Specialist**

**Technical Architecture:**

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Component** | **Description** | **Technology** |
|  | User Interface | How user interacts with application | ReactJS, CSS, React Fa icons |
|  | Application Logic-1 | Logic for fetching and displaying data | JavaScript, ReactJS |
|  | Application Logic-2 | API requests handling and error handling | Axios for HTTP requests |
|  | External API-1 | Fetching ExerciseDB data | ExerciseDB API (via RapidAPI) |

**Table-2: Application Characteristics:**

| **S.No** | **Characteristics** | **Description** | **Technology** |
| --- | --- | --- | --- |
|  | Open-Source Frameworks | List the open-source frameworks used | ReactJS, Axios |
|  | Security Implementations | Securing API calls and access controls | HTTPS, API key authentication (RapidAPI) |