

Project Design Phase-II
Technology Stack (Architecture & Stack)

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| Date | 6 March 2025 |
| Team ID | SWTID1741154194 |
| Project Name | FitFlex: Your Personal Fitness Companion |
| Maximum Marks | 4 Marks |
| Team Size:4 | |
| Team Leader: ISHWARYA K | |
| Team Member: SHANMUGA PRIYA G | |
| Team Member: NIVETHA T | |
| Team Member: DHANUSH P | |

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 |
|------|---------------------|--|-------------------------------|
| 1. | User Interface | How user interacts with application | ReactJS, CSS, React Fa icons |
| 2. | Application Logic-1 | Logic for fetching and displaying data | JavaScript, ReactJS |
| 3. | Application Logic-2 | API requests handling and error handling | Axios for HTTP requests |
| 4. | External API-1 | Fetching ExerciseDB data | ExerciseDB API (via RapidAPI) |

Table-2: Application Characteristics:

| S.No | Characteristics | Description | Technology |
|------|--------------------------|--|--|
| 1. | Open-Source Frameworks | List the open-source frameworks used | ReactJS, Axios |
| 2. | Security Implementations | Securing API calls and access controls | HTTPS, API key authentication (RapidAPI) |