**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

| Date | 6 March 2025 |
| --- | --- |
| Team ID | SWTID1741254344152117 |
| Project Name | FitFlex |
| Maximum Marks | 4 Marks |

| **Team members:** | **Register no:** | **ID no:** | **Team no:** |
| --- | --- | --- | --- |
| **Shreejith Kumar Das S (Team Leader)** | **212203921** | **22BCA51** | **Team 10** |
| **Sanjay K** | **212203914** | **22BCA12** | **Team 10** |
| **Hariharasudhan C** | **212203885** | **22BCA14** | **Team 10** |
| **Ranjith Kumar B** | **212203909** | **22BCA20** | **Team 10** |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| --- | --- | --- |
| FR-1 | Browsing Exercises | Browse Exercise by Body Parts  Browse Exercise by Equipment  Browse Exercise by Popular |
| FR-2 | Exercise Details | View exercise GIF, Target muscles, secondary muscles.  Confirmation via OTP |
| FR-3 | User Experience | Navigate Back to Home page. |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

| **FR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | **Usability** | The User Interface (UI) should be easy to navigate for all users of all skill levels. |
| NFR-2 | **Security** | API requests must be secure. |
| NFR-3 | **Reliability** | The system should handle API failures gracefully. |
| NFR-4 | **Performance** | The application should load data quickly. |
| NFR-5 | **Availability** | The system should maintain an uptime of at least 99.9%, ensuring accessibility across different time zones. |
| NFR-6 | **Scalability** | The app should handle increasing numbers of users and concurrent streams efficiently without performance degradation. The architecture should support future feature expansion. |