

**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

Date	6 March 2025
Team ID	SWTID1741149616
Project Name	FitFlex
Maximum Marks	4 Marks
Team Leader	R Dishali
Team member	T Keerthi
Team member	P Abinaya
Team member	S Abinaya
Team member	V Abina

**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	<b>Usability</b>	The User Interface (UI) should be easy to navigate for all users of all skill levels.
NFR-2	<b>Security</b>	API requests must be secure.
NFR-3	<b>Reliability</b>	The system should handle API failures gracefully.
NFR-4	<b>Performance</b>	The application should load data quickly.
NFR-5	<b>Availability</b>	The system should maintain an uptime of at least 99.9%, ensuring accessibility across different time zones.
NFR-6	<b>Scalability</b>	The app should handle increasing numbers of users and concurrent streams efficiently without performance degradation. The architecture should support future feature expansion.