

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

Date	15 October 2022
Team ID	PNT2022TMID02918
Project Name	Project – News Tracker Application
Maximum Marks	4 Marks

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Oauth
FR-2	User Confirmation	Confirmation via OTP
FR-3	Fetch News Items	DB Registration of user Input news items into common table with PK PK mapping of news items to users
FR-4	Interactions likes,dislikes,save	PK mapping to individual interaction tables Foreign key mapping for safe deletion
FR-5	User Stickiness	L7 mapping (browser based cache system for user identification and authentication)

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Clean UI/UX Principles Less ads, faster loadtimes Providing Adequate data
NFR-2	<b>Security</b>	Reverse XSS , Oauth Logging and monitoring for Security Broken access control Lazy loading
NFR-3	<b>Reliability</b>	Consistent Load time Logging and monitoring for Flaws
NFR-4	<b>Performance</b>	Improving load times with local DB Language Categorization and selective requests

NFR-5	<b>Availability</b>	Ensuring 24/7 availability through error logging Health check
NFR-6	<b>Scalability</b>	Increase in container nodes L7 balancing (if required) L3 balancing