

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

Date	1 November 2022
Team ID	PNT2022TMID35356
Project Name	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	The user is asked to register by filling a form in the web-app.
FR-2	User Confirmation	The user receives an email to confirm and activate account
FR-3	User Login	The user can login using designated Username and Password formed during registration
FR-4	Provide Interests	The user is made to provide interests to update recommendations
FR-4	Home Page	The home page consists of a dashboard which displays news articles according to recommendations.
FR-5	Saved Articles Page	The users are allowed to save articles they are interested in to view and read these at a later time.
FR-6	Tracker Page	Shows the news elaborately when the NEWS Headlineof the Home page is clicked.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Our website is used to Read News and gain Knowledge according to user's interest with a user friendly Interface.
NFR-2	Security	User can only login with their own username and password. CAPTCHA is provided. Users can change their passwords only via email confirmation. Their data and interests are not available to public.
NFR-3	Reliability	Our Website delivers the reliable content only from NEWS API.
NFR-4	Performance	It is a high performable App with friendly User Interface and shares lot of information without any Issues. To ensure consistent performance, the load balancer is used with the docker.
NFR-5	Availability	Service is always available with the help of load balancing. The application works well in any browser, any device.
NFR-6	Scalability	Docker and Kubernetes are used to accommodate scalability. Kubernetes allows users to horizontally scale the total containers used based on the application requirements, which may change over time.