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

Date	03 October 2022
Team ID	PNT2022TMID27420
Project Name	Project - News tracking 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 Gmail Registration through LinkedIn Registration through Facebook
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User language selection	Users should select a language from a list of language in which the news must be displayed.
FR-4	User preferences	User is asked to select the topics regarding which he would like to see the news i.e., cinema, cricket, technology, climate etc.
FR-5	Notification preference	User is given the option to choose the means through which he would like to receive notifications e.g., SMS, email, mobile notification. User is also given the option to select the topics on which he would like to receive notification.
FR-6	Appearance and various customization selection	Option is provided for the user to select the manner in which he wants the news to appear in the home page, how it should be organized and so on.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	News articles must be fetched quickly from the internet and should be displayed as soon as the user opens the application. While scrolling down the homepage, it shouldn't take too long for the news articles to load.
NFR-2	**Security**	Proper authentication is done to ensure that only authenticated persons are accessing the news. The personal information of the user such as the email, name etc is stored in an encrypted database.

NFR-3	**Reliability**	The server on which this application is running is configured in such a way that the connection is reliable no matter what the network traffic is.
NFR-4	**Performance**	The RAM and the processing power of the server is configured in such a way that the user is able to quickly navigate across different sections and the news articles load in no time.
NFR-5	**Availability**	Irrespective of the time of the day the application should be up and running. The server configuration is done in such a way that it is available 24/7.
NFR-6	**Scalability**	This application will be hosted in IBM cloud and it will be made sure that it is easier to scale the server and storage up or down according to rise or fall of the total number of users accessing the application at a given time.