

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

Date	12 October 2022
Team ID	PNT2022TMID50246
Project Name	NEWS TRACKER APPLICATION

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR NO	Functional Requirements	Sub Requirements
1.	User Registration	Registration through online application Registration through Gmail Registration through website
2.	User Confirmation	Confirmation via Email Confirmation via OTP
3.	User login	Login through browser directly by entering username and password Login through Login through email
4.	User interaction	Done through user interface between client and server View the related news by subscribed or requested page

**Non-functional Requirements:**

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

NFR No	Non functional requirements	Description
1.	<b>Usability</b>	End users can receive push updates for new content on a site by subscribing to the site's news feed.
2.	<b>Security</b>	How well are the system and its data protected against attacks

3.	<b>Reliability</b>	How often does the system experience critical failures? How much time does it take to fix the issue when it arises? And how is user availability time compared to downtime?
4.	<b>Performance</b>	Performance is the core non-functional requirements no system can do without. It defines how fast a software system or a particular piece of it responds to certain users actions under a certain workload. In most cases, this metric explains how long a user must wait before the target operation happens (the page renders, a transaction is processed, etc.) given the overall number of users at the moment. But it's not always like that. Performance requirements may describe background processes invisible to users, e.g. backup. But let's focus on user-centric performance
5.	<b>Availability</b>	Availability describes how likely the system is accessible to a user at a given point in time. While it can be expressed as an expected percentage of successful requests, you may also define it as a percentage of time the system is accessible for operation during some time period. For instance, the system may be available 98 percent of the time during a month. Availability is perhaps the most business-critical requirement, but to define it, you

		also must have estimations for reliability and maintainability.
6.	<b>Scalability</b>	Scalability assesses the highest workloads under which the system will still meet the performance requirements. There are two ways to enable your system scale as the workloads get higher: horizontal and vertical scaling.