

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

|               |                                    |
|---------------|------------------------------------|
| Date          | 19 October 2022                    |
| Team ID       | PNT2022TMID                        |
| 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             | <ul style="list-style-type: none"><li>➤ Registration through Form</li><li>➤ Registration through Gmail</li></ul>  |
| FR-2   | User Confirmation             | <ul style="list-style-type: none"><li>➤ Confirmation via Email</li><li>➤ Confirmation via OTP</li></ul>   |
| FR-3   | Searching                     | <ul style="list-style-type: none"><li>➤ Search the news based on the user interest</li><li>➤ Showing the trending news on search</li><li>➤ Showing the Category- wise news</li><li>➤ User can save the news needed and study later</li><li>➤ Help users find content with categorized</li></ul>                           |
| FR-4   | Real time News                | <ul style="list-style-type: none"><li>➤ User can see the Real news with Real time update</li><li>➤ Auto update news because it fetch news from API</li><li>➤ Show the Number of comments an article as a and the number of comment can be used as a measure of comment popularity</li></ul>                               |
| FR-5   | Location based                | <ul style="list-style-type: none"><li>➤ User can view the news near to their location</li><li>➤ User can track the Location of the news</li></ul>   |
| FR-6   | User friendly                 | <ul style="list-style-type: none"><li>➤ User can publish their own articles</li><li>➤ User can add images to their articles</li><li>➤ Users can see the articles Published by the other users</li><li>➤ Push notification are meant to attract users attention by using alerts, even if it's just for a second.</li></ul> |

### Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description   |
|--------|----------------------------|---|
| NFR-1  | <b>Usability</b>           | <ul style="list-style-type: none"><li>➤ The news is updated almost every minute, in all this endless news flow, the user should always be able view exactly information that interest him/her at the moment.</li><li>➤ Search and Filtering function will provide the users with the opportunity to search for information of their interest according to specific criteria and parameters.</li></ul> |
| NFR-2  | <b>Security</b>            | <ul style="list-style-type: none"><li>➤ Authentication and password management</li><li>➤ During the comment, many users can be rude or Cruel, so of course, it worth thinking of algorithms that will allow you to block offensive comments, as well as spam.</li></ul>   |
| NFR-3  | <b>Reliability</b>         | <ul style="list-style-type: none"><li>➤ Avoid the Fake news</li><li>➤ Instant news at instant time</li><li>➤ Track the location of the news</li></ul>   |
| NFR-4  | <b>Performance</b>         | <ul style="list-style-type: none"><li>➤ Keep users In-App for longer with related post</li><li>➤ Show users the most relevant story first</li><li>➤ Keep your user's attention with list views</li></ul>  |
| NFR-5  | <b>Availability</b>        | <ul style="list-style-type: none"><li>➤ Continuous running for example, 24/7, minimum idle time</li><li>➤ History of the previous news that happened before related to the present news</li></ul>   |
| NFR-6  | <b>Scalability</b>         | <ul style="list-style-type: none"><li>➤ Get more user's by encouraging social sharing</li><li>➤ Keep users In-App for longer with related post</li></ul>  |