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

| Date | 04 November 2022 |
|---|---|
| Team ID | PNT2022TMID20912 |
| Project Name | A Novel method for Handwritten Digit Recognition System |
| Maximum Marks | 4 Marks |

**<u>Functional Requirements:</u>**

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<br>Registration through Gmail<br>Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email<br>Confirmation via OTP |
| FR-3 | Upload Image | Image upload via files/folders<br>Image upload via drive<br>Image upload via web<br>Image upload via scan/camera |
| FR-4 | Spelling Support | Identification of handwriting of different styles & fonts<br>Spelling Check |
| FR-5 | Translation | Extraction of handwritten digits from the image<br>Conversion of handwritten digits into machine readable form |
| FR-6 | Log out | Includes log out/sign out |

## Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|---|---|---|
| NFR-1 | **Usability** | System design must be easily understandable and should be easy to navigate without any problem |
| NFR-2 | **Security** | Automatic authentication of users with their unique username and password |
| NFR-3 | **Reliability** | Frequent updation of database and when update fails, it will rollback |
| NFR-4 | **Performance** | Should reduce the delay in information when hundreds of request are given |
| NFR-5 | **Availability** | Availability of system functionality and services for use |
| NFR-6 | **Scalability** | The website traffic limit must be scalable enough to support 2 lakhs users at a time |