

**SOLUTION REQUIREMENTS
(FUNCTIONAL & NON-FUNCTIONAL)**

| | |
|---------------|---------------------------------------------------------|
| Date | 28 th October, 2022 |
| Team ID | PNT2022TMID28868 |
| Project Name | A Novel Method for Handwritten Digit Recognition System |
| 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 |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | Login | Login using credentials |
| FR-4 | Upload Input | Upload image Upload via on-screen |
| FR-5 | Train | Multiple inputs to train |
| FR-6 | Test | Test via fresh data |
| FR-7 | Maintenance | Handle all user data |
| FR-8 | Update | Update if any new feature available |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| NFR-1 | Usability | It will be easily accessible by the user. Simple and easy to understand |
| NFR-2 | Security | The data and input given by the user will be protected. Password-protected and only the particular user can alter their data |
| NFR-3 | Reliability | It is highly reliable and the accuracy can be increased with training |
| NFR-4 | Performance | Good performance with short time to run |
| NFR-5 | Availability | It is easily available on all platforms. Available on web |
| NFR-6 | Scalability | It is scalable and new features can be integrated. Multiple digits can be recognised at a time, real time recognition can be done |