

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

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID47743 |
| Project Name | Project – 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 | Upload a handwritten image | Put original image Put original handwritten |
| FR-4 | Check with digit recognition | Compare with digit system Get a understanding image |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|---|
| NFR-1 | Usability | The application include in postal mail sorting ,bank check processing,form data entry. |
| NFR-2 | Security | Because SVM classifier perform the best. |
| NFR-3 | Reliability | The divercity in human writing types,spacing differences,and irregulations of handwriting causes less character recognition as you can see in the future image. |
| NFR-4 | Performance | Most standards implementation of neural network achive an accuracy of (98-99)percent in correctly classifying the handwritten digits. |
| NFR-5 | Availability | It available for postal department and banking systems. |
| NFR-6 | Scalability | The goal of our research work is to develop scalable Neural Network(NN)and convolutional. |