

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

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID13636 |
| Project Name | Project – A Novel Method For Handwritten Digit Recognition |
| 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 |
| FR-2 | Update native language | The preferred language of the user will be change by the user. |
| FR-2 | Image Capture | Take the image of handwritten and check the handwritten is captured Under given parameters. |
| FR-3 | Image processing | Upload the handwritten image by clicking the ok button. |
| FR-4 | Digit Prediction | The kind of digits and its image will be predicted and Accurate digits will be recommended. |
| FR-5 | Recommendation | Only digits are recommended to the user. |
| FR-6 | Email notification | The finded handwritten will be shown to the requested user. |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|---|
| NFR-1 | Usability | Datasets based on digits are used for all kinds of Digits. Datasets can be reusable. |
| NFR-2 | Security | User information and digit data are secure. Algorithms used are more secure. |
| NFR-3 | Reliability | The image capturing performs consistently well with high quality. |
| NFR-4 | Performance | Performance of the system is considerably better and the predictions are good with high accuracy. |
| NFR-5 | Availability | It can work in different platforms and easy access of the system will be provided. |
| NFR-6 | Scalability | Increase in digit of predicting the results. |