

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

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID01476 |
| 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 |
| FR-2 | User Login | Login via registered Username and Password |
| FR-3 | Uploading images | Able to input the handwritten images into the application |
| FR-4 | Recognizing digits | Display the recognized digits from the input images to the user |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|---|
| NFR-1 | Usability | The application needs to respond smoothly so that the user can use the application effectively and need to be an user friendly application. |
| NFR-2 | Security | Ensure the security by authenticating the users using their username and password. |
| NFR-3 | Reliability | The application does not show any error during the recognition of the digits from the uploaded images. |
| NFR-4 | Performance | Needs to respond fast and provide the output even for the complex handwritings. |
| NFR-5 | Availability | Need to available for all users at any time and can able to input the handwritten images to the application easily. |
| NFR-6 | Scalability | It can able to handle N numbers of users at the same time with faster response and recognize the digits effectively. |