**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID09881 |
| 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.

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| --- | --- | --- |
| **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.

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| --- | --- | --- |
| **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. |