Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID37375 |
| 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.

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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 | Image Upload | Upload different handwritten images in a supported format |
| FR-4 | Digit Recognition | 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** | . Usability requirements - will be concerned with  effectiveness and efficiency, accessibility and  learnability.  Will be concerned with the effectiveness and efficiency of the application |
| NFR-2 | **Security** | Ensure the privacy by authenticating the users using their username and password. |
| NFR-3 | **Reliability** | The application should not show any errors during the recognition of the digits from the uploaded images. |
| NFR-4 | **Performance** | Need to provide exact output for the written digits from the uploaded images |
| NFR-5 | **Availability** | Should be accessible for all users at any time and must provide required output for the handwritten digits. |
| NFR-6 | **Scalability** | Designed in a way to handle N numbers of users at the same time with faster response and recognize the digits effectively. |