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| --- | --- | --- |
|  | **SOLUTION REQUIREMENTS** | |
|  | **(FUNCTIONAL & NON-FUNCTIONAL)** | |
|  |  |  |
| Date |  | 28th October, 2022 |
|  |  |  |
| Team ID |  | PNT2022TMID48243 |
|  |  |  |
| 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.

|  |  |  |
| --- | --- | --- |
| **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 | Login | Login using credentials |
|  |  |  |
| FR-4 | Upload Input | Upload image |
|  |  | Upload via on-screen |
| FR-5 | Train | Multiple inputs to train |
|  |  |  |
| FR-6 | Test | Test via fresh data |
|  |  |  |
| FR-7 | Maintenance | Handle all user data |
|  |  |  |
| FR-8 | Update | Update if any new feature available |
|  |  |  |

**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** | It will be easily accessible by the user. Simple and |
|  |  | easy to understand |
| NFR-2 | **Security** | The data and input given by the user will be |
|  |  | protected. Password-protected and only the particular |
|  |  | user can alter their data |
| NFR-3 | **Reliability** | It is highly reliable and the accuracy can be increased |
|  |  | with training |
| NFR-4 | **Performance** | Good performance with short time to run |
|  |  |  |
| NFR-5 | **Availability** | It is easily available on all platforms. Available on |
|  |  | web |
| NFR-6 | **Scalability** | It is scalable and new features can be integrated. |
|  |  | Multiple digits can be recognised at a time, real time |
|  |  | recognition can be done |