**Project Design Phase-II**

**Data Flow Diagram & User Stories**

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID52672 |
| Project Name | Project – A Novel Method for Handwritten Digit Recognition |
| Maximum Marks | 4 Marks |

**Data Flow Diagrams:**

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Input image

**Data Flow:**

Classification using ANN & CNN algorithm

MNIST DATASET

**User Stories**

Use the below template to list all the user stories for the product.

| **User Type** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Acceptance criteria** | **Priority** | **Release** |
| --- | --- | --- | --- | --- | --- | --- |
| Customer (Mobile user) | Home | USN-1 | As a user, I can view the guide and awareness to use the application. | I can view the awareness to use this application and its limitations. | Low | Sprint-1 |
|  |  | USN-2 | As a user, I’m allowed to view the guided video to use the interface of this application | I can gain knowledge to use this application by a practical method. | Low | Sprint-1 |
|  |  | USN-3 | As a user, I’m allowed to view the guided video to use the interface of this application. | I can gain knowledge to use this application by a practical method. | Low | Sprint-1 |
|  | Recognize | USN-4 | As a user, In this prediction page I get to choose the image. | I can choose the image from our local system and predict the output. | High | Sprint-2 |
|  | Predict | USN-5 | As a user, I’m Allowed to upload and choose the image to be uploaded | I can upload and choose the image from the system storage and also in any virtual storage. | Medium | Sprint-3 |
|  |  | USN-6 | As a user, I will train and test the input to get the maximum accuracy of output. | I can train and test the application until it gets maximum accuracy of the result. | High | Sprint-4 |
|  |  | USN-7 | As a user I can access the MNIST dataset | I can access the MNIST dataset and produce accurate results | Medium | Sprint-3 |
| Customer (Web user) | Home | USN-8 | As a user, I can view the guide to use the web app | I can view the awareness of this application and its limitations. | Low | Sprint-1 |
| Customer  (PC user) | Home | USN-9 | As a user, I’m allowed to view the guided video to use the interface of this application. | I can gain knowledge to use this application by a practical method. | Low | Sprint-1 |
|  |  | USN-10 | As a user, I can view the guide and awareness to use this application. | I can view the awareness to use this application and its limitations. | Low | Sprint-1 |
|  |  | USN-11 | As it is an open source, can use it cost freely. | I can use it without any payment to be paid for it to access. | Medium | Sprint-2 |
|  | Recognize | USN-12 | As a user I’m able to access web application from anywhere virtually. | I can use the application portably anywhere. | High | Sprint-1 |
|  |  | USN-13 | As it is a web application, it is installation free | I can use it without the installation of the application or any software. | Medium | Sprint-3 |
|  | Predict | USN-14 | As a user, I’m Allowed to upload and choose the image to be uploaded | I can upload and choose the image from the system storage and also in any virtual storage. | Medium | Sprint-3 |