**Project Design Phase-II**

**Data Flow Diagram &User Stories**

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| Date | 18 October 2022 |
| Team ID | PNT2022TNID43796 |
| Project Name | Real-Time Communication System Powered by AI for Specially Abled |
| 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.

**Example:**

Gesture Recognization

Processing

**Gesture to recognize image**

**Recognize gesture**

**Identify Gestures**

**Capture Image**

YES

**Display Information**

**Retrieve information from internet**

**Match Found**

NO

**Continuous capture image**

Acquire Gesture

Compare with

gesture stored

No

Match Found

Yes

Generate Image

**User Stories**

| **User Type** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Acceptance criteria** | **Priority** | **Release** |
| --- | --- | --- | --- | --- | --- | --- |
| Customer (Disabled People) | Web Camera | USN-1 | As a user, I am focussed on various hand gestures for sign recognization. | Hand gestures for sign recognization | High | Sprint-1 |
|  | Storage Image | USN-2 | As a user, the image of the gesture gets stored | It can describe the key points from that image and it gets resized. | High | Sprint-1 |
| Customer (Web user) | Training Phase | USN-3 | The various kinds of methods and techniques of picture demonstration with the respective algorithm. | Coded with the appropriate interpretations and sent to testing phase. | Low | Sprint-2 |
|  | PC | USN-4 | Use for selecting the right image for the task. | Connects the image in black and white with the brightness,vibrancy and colour. | Medium | Sprint-1 |
|  | Testing Phase | USN-5 | The gesture recognized are tested with interpretations of each individual hand gestures. | All the user need to implement this by using wifi or internet connection only. | High | Sprint-1 |