<div align="center">
**Project Design Phase-II**
**Data Flow Diagram & User Stories**
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| Date | 15 October 2022 |
|---|---|
| Team ID | PNT2022TMID10864 |
| 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 in a system. A neat and clear DFD can graphically depict the required amount of system capacity. It shows how data enters and exits the system, what changes the data, and where the data is saved.

**Simplified Flow:**
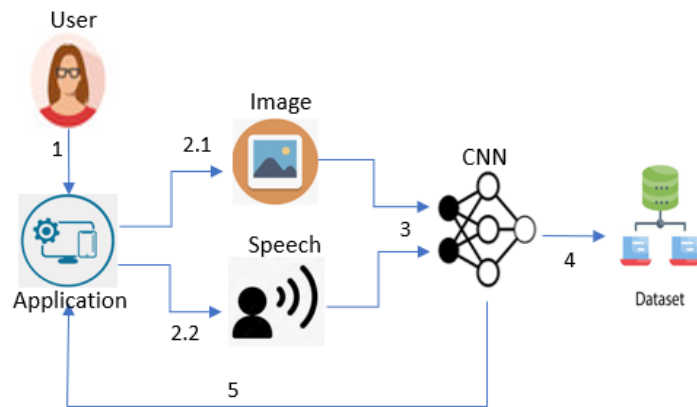


1. User starts the application.
2. The user gives sign language image or speech as input.
3. The input is processed in the CNN model.
4. The model evaluates or predicts the language.
5. Finally the text or sign language output is given to the user.
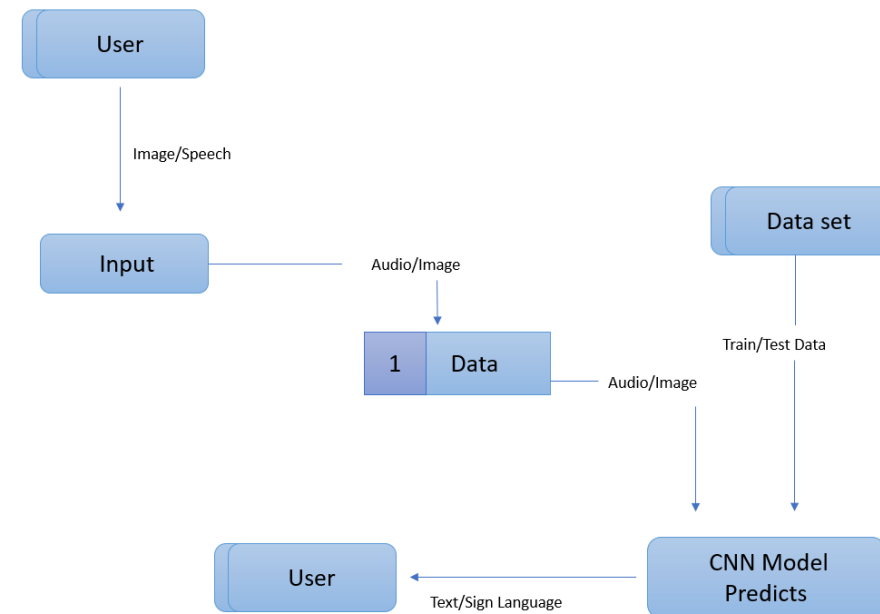
**User Stories**

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 |
|---|---|---|---|---|---|---|
| Deaf and mute person | Gesture recognition | USN-1 | As the user does the gestures, the system captures it. | I am able to operate the system easily | High | Sprint-1 |
| | | USN-2 | The gestures which are done by the user, is instantly been stored inside the database. | I am able to see the gestures getting recorded | High | Sprint-1 |
| | | USN-3 | These stored gestures are processed and finally converted into desired output. | I can instantly see the gestures being converted into speech. | High | Sprint-2 |
| | | USN-4 | The gestures are converted into text which is understood by a common man. | I can easily communicate with an ordinary man | High | Sprint-1 |
| | | | | | | |
| | | | | | | |
| Ordinary person | Speech recognition | USN-1 | The speaker speaks the desired message needed to be conveyed to the specially abled. | I am able to operate the system easily | High | Sprint-1 |
| | | USN-2 | The system records the speech. | I am able to see the speech getting recorded | High | Sprint-1 |
| | | USN-3 | The spoken words are stored in the database and converted into desired output. | I can instantly see the speech being converted into gestures. | High | Sprint-2 |
| | | USN-4 | At last the speech is been converted into gestures which is understood by the specially abled. | I can easily communicate with a specially abled. | High | Sprint-1 |