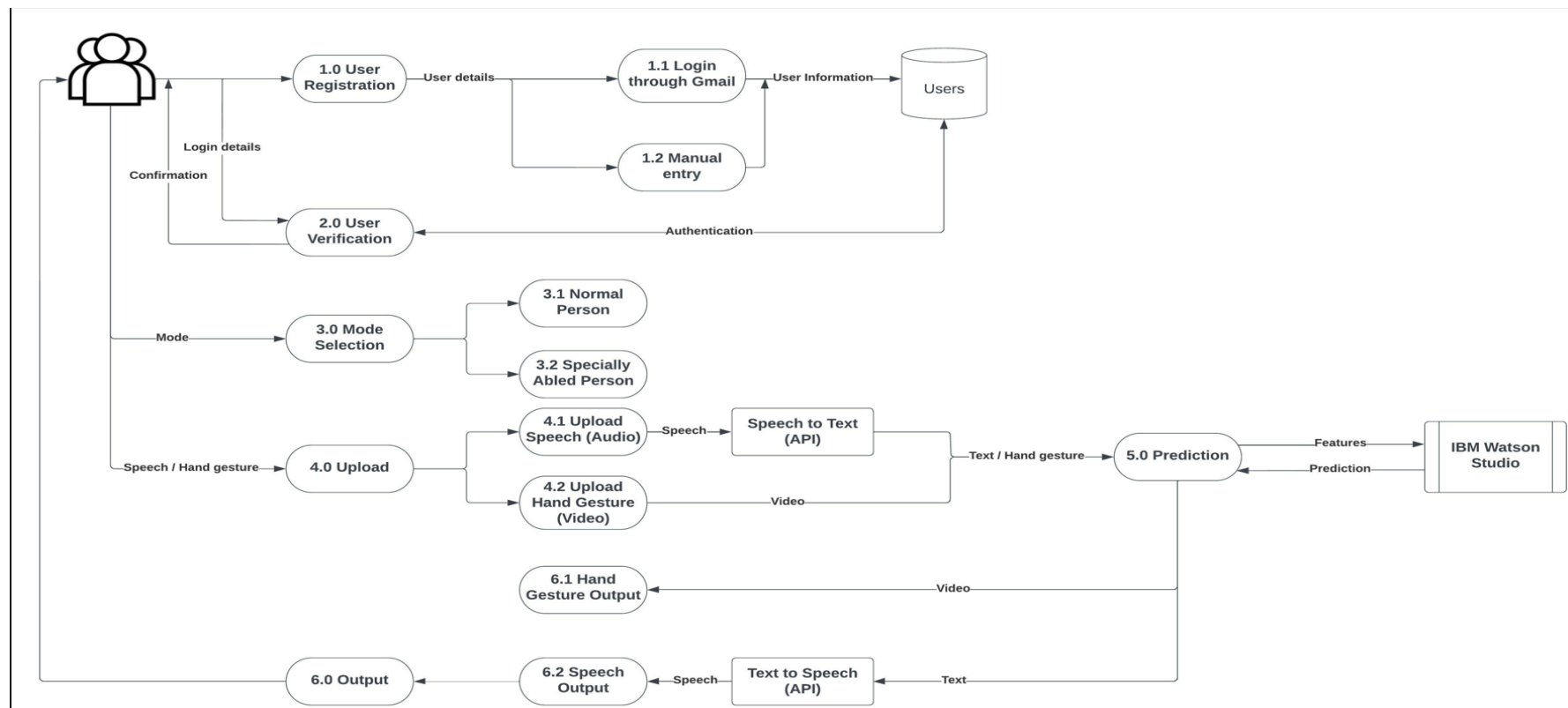


Project Design Phase-II Data Flow Diagram & User Stories

| | |
|---------------|--|
| Date | 15 October 2022 |
| Team ID | PNT2022TMID35302 |
| Project Name | Project - Real Time Communication System Powered by AI for Specially Abled |
| Maximum Marks | 4 Marks |

Data Flow Diagrams



User Stories

| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance criteria | Priority | Release |
|-----------------------------------|-------------------------------|-------------------|--|---|----------|----------|
| Customer (Specially Abled Person) | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | I can access my account and select the mode of usage | High | Sprint-1 |
| | | USN-2 | As a user, I can register for the application through Gmail | | High | Sprint-1 |
| | Confirmation | USN-3 | As a user, I will receive confirmation email once I have registered for the application | I can receive confirmation email & click confirm | Medium | Sprint-2 |
| | Login | USN-4 | As a user, I can log into the application by entering email & password | Credentials has to be matched | Medium | Sprint-2 |
| | Mode Selection | USN-5 | As a user, I will be prompted to select the mode of communication and I will select the specially abled mode (Gesture to Speech) | Either of the modes has to be chosen for further processing | High | Sprint-3 |
| | Video Capturing | USN-6 | As a user of this mode I will capture my hand gesture as video | Minimum video quality criteria has to be met | High | Sprint-1 |
| | Gesture interpretation | USN-7 | As a user of this mode, I will be able to receive and interpret the translated gestures from the other end. | Must be a valid gesture | Low | Sprint-1 |

| | | | | | | |
|--------------------------------|--|--------|--|---|--------|----------|
| Customer (Normal Person) | Registration | USN-8 | As a user, I can register for the application by entering my email, password, and confirming my password. | I can access my account and select the mode of usage | High | Sprint-1 |
| | | USN-9 | As a user, I can register for the application through Gmail | | High | Sprint-1 |
| | Confirmation | USN-10 | As a user, I will receive confirmation email once I have registered for the application | I can receive confirmation email & click confirm | Medium | Sprint-2 |
| | Login | USN-11 | As a user, I can log into the application by entering email & password | Credentials has to be matched | Medium | Sprint-2 |
| | Mode Selection | USN-12 | As a user, I will be prompted to select the mode of communication and I will select the specially abled mode (Gesture to Speech) | Either of the modes has to be chosen for further processing | High | Sprint-3 |
| | Speech Recording | USN-13 | As a user of this mode I will record the speech inorder to convert it into gesture | Minimum audio quality criteria has to be met | High | Sprint-1 |
| | Speech recognition | USN-14 | As a user of this mode, I will be able to receive and interpret the translated speech from the other end. | The words must be a recognizable | Low | Sprint-1 |
| Administrator | Application monitoring and controlling | USN-15 | As an admin, I will be responsible for controlling the user activities and further upgradations of the application | Admin level privilege | Medium | Sprint-3 |