Project Design Phase-II
Data Flow Diagram & User Stories
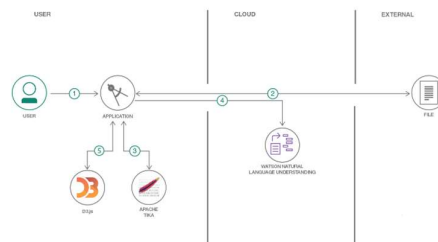
Date	15 October 2022
Team ID	PNT2022TMID53121
Project Name	Project - Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	4 Marks

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.
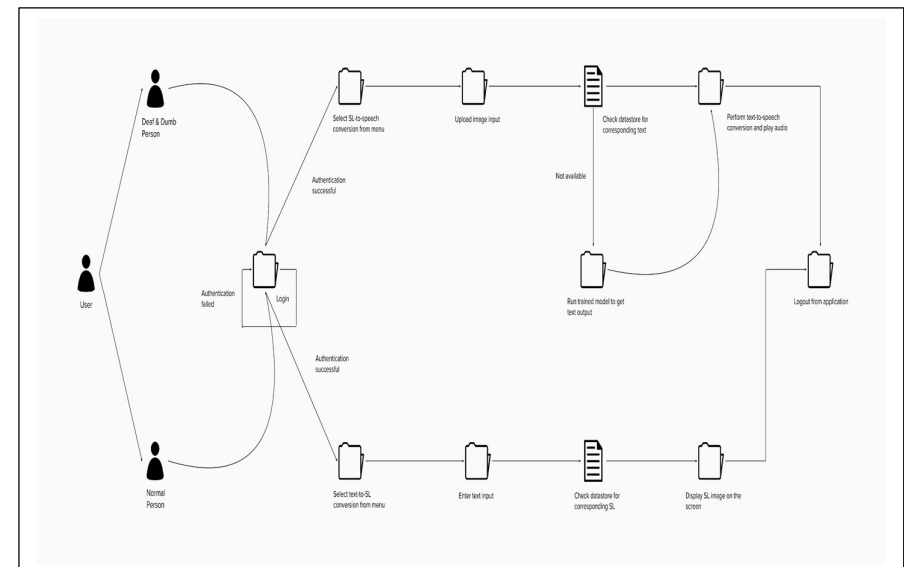
Example: DFD Level 0 (Industry Standard)

Example: (Simplified)

Flow

1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLU for enrichment.
5. Enriched data is visualized in the UI using the D3.js library.

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
User (Deaf & Dumb 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 / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Gmail	I can access my account / dashboard via Gmail	Medium	Sprint-2
	Login	USN-4	As a user, I can log into the application by entering email & password	I will be redirected to my dashboard	High	Sprint-1
	Dashboard	USN-5	As a user, I can view a menu to perform sign-language to speech conversion	I will be redirected to the appropriate page on making my selection	High	Sprint-2
	Image Upload	USN-6	I will be provided with an option to upload an image of the sign-language in jpeg / png format	I will get a confirmation that the image has been uploaded successfully and can preview the image	High	Sprint-2
	Translation	USN-7	I will be provided with a button to initiate the translation process	I will be able to play an audio file containing the converted output	High	Sprint-3
User (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 / dashboard	High	Sprint-1
		USN-9	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-10	As a user, I can register for the application through Gmail	I can access my account / dashboard via Gmail	Medium	Sprint-2
	Login	USN-11	As a user, I can log into the application by entering email & password	I will be redirected to my dashboard	High	Sprint-1
	Dashboard	USN-12	As a user, I can view a menu to perform sign-language to speech conversion	I will be redirected to the appropriate page on making my selection	High	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
	Text Entry	USN-13	I will be provided with a text box to type in the input	I can preview the entered text	High	Sprint-2
	Translation	USN-14	I will be provided with a button to initiate the translation process	I will be able to view an image containing the converted output	High	Sprint-3
Administrator	Login	USN-15	As an administrator, I can log into the application by entering email & password	I will be redirected to my dashboard	High	Sprint-1
	Dashboard	USN-16	As an administrator, I can view a log of the translations performed by all the users	I will be provided with an option to download a statement of the conversions performed	High	Sprint-3
		USN-17	As an administrator, I can view the list of users currently using the application	I can view a list of active users marked with a green dot preceding their name	High	Sprint-2