Project Design Phase-II
Data Flow Diagram & User Stories
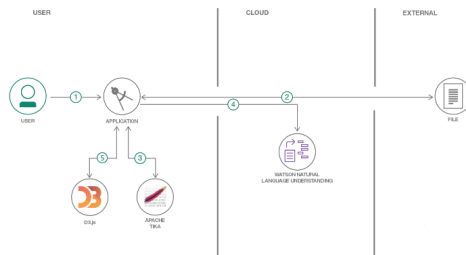
Date	03 October 2022
Team ID	PNT2022TMID35886
Project Name	**Real-Time Communication System Powered by AI for Specially Abled**
Maximum Marks	4 Marks

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.
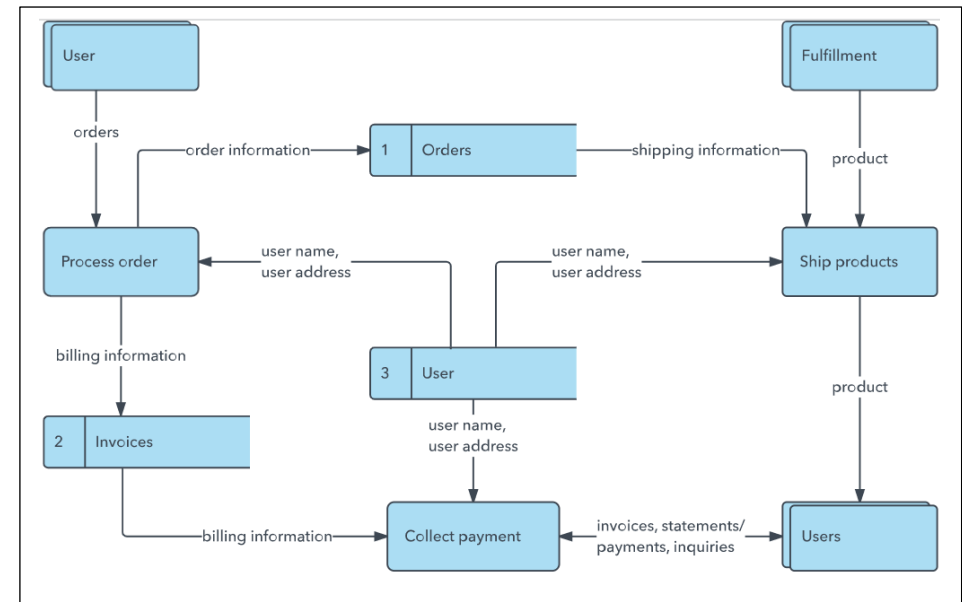
Example: (Simplified)

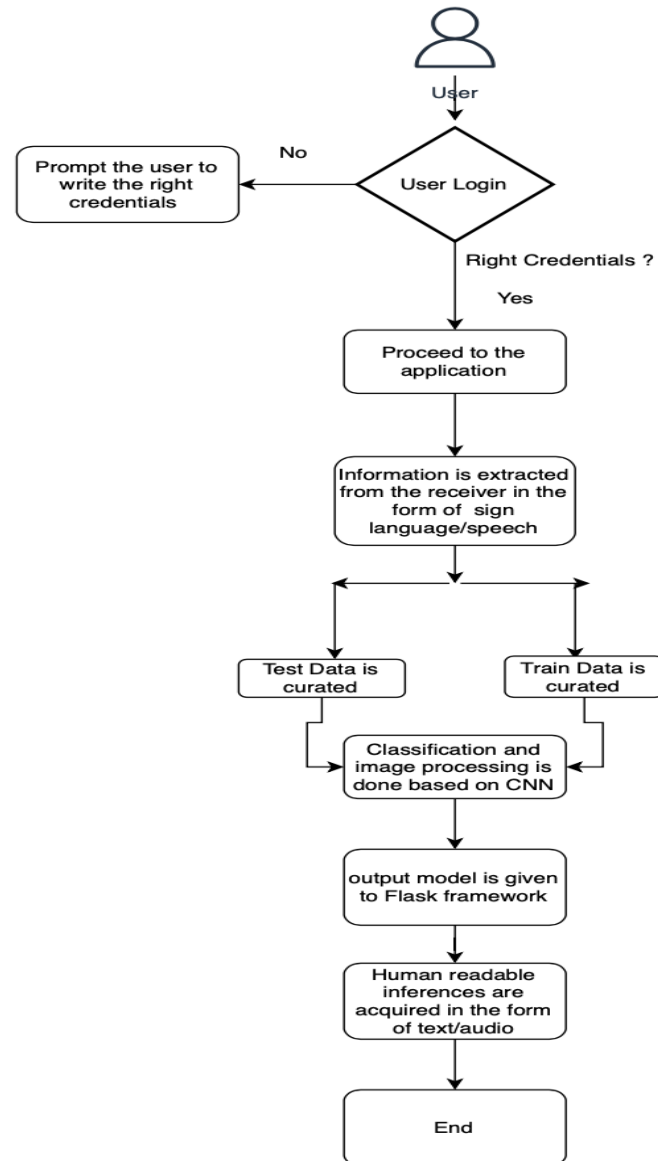Example: DFD Level 0 (Industry Standard)

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.

FLOWCHART

User

User Login

No → Prompt the user to write the right credentials

Right Credentials ?

Yes → Proceed to the application

Information is extracted from the receiver in the form of sign language/speech

Test Data is curated

Train Data is curated

Classification and image processing is done based on CNN

output model is given to Flask framework

Human readable inferences are acquired in the form of text/audio

End

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)	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
Customer Details	Login	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
Customer Uses	Dashboard	USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
Customer Options	Details about the application	USN-4	As a user, I can register for the application through Gmail	I can register and access the dashboard with Gmail Login	Medium	Sprint-1
Customer usage	Login	USN-5	As a user, I can log into the application by entering email & password	The right credentials needs to be added so that I can have a successful login and access the information on demand	High	Sprint-1
Customer needs to do	Dashboard	USN-6	Know how to use the application and understand what the specially abled people are trying to communication and vice versa.	Communication must be understandable both ways through the application	High	Sprint-2
Customer (Web user)	Web page	USN-7	As a user, I can try to understand the specially abled people through the web page application virtually.	Understanding of information is easily done through the application	High	Sprint-3
Customer Care Executive	A chatbot or a person is used to clear all our queries and problems	USN-8	As a user, I can assess customer service and my necessary queries are cleared.	If I have queries and doubts, then I can approach customer service and they will accessible any time	Medium	Sprint-4

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Administrator	Supervise the entire procedure and act as	USN-9	Asks as a mediator to solve all the queries between the user and the speaker.	Work can be done at a faster rate	High	Sprint-4