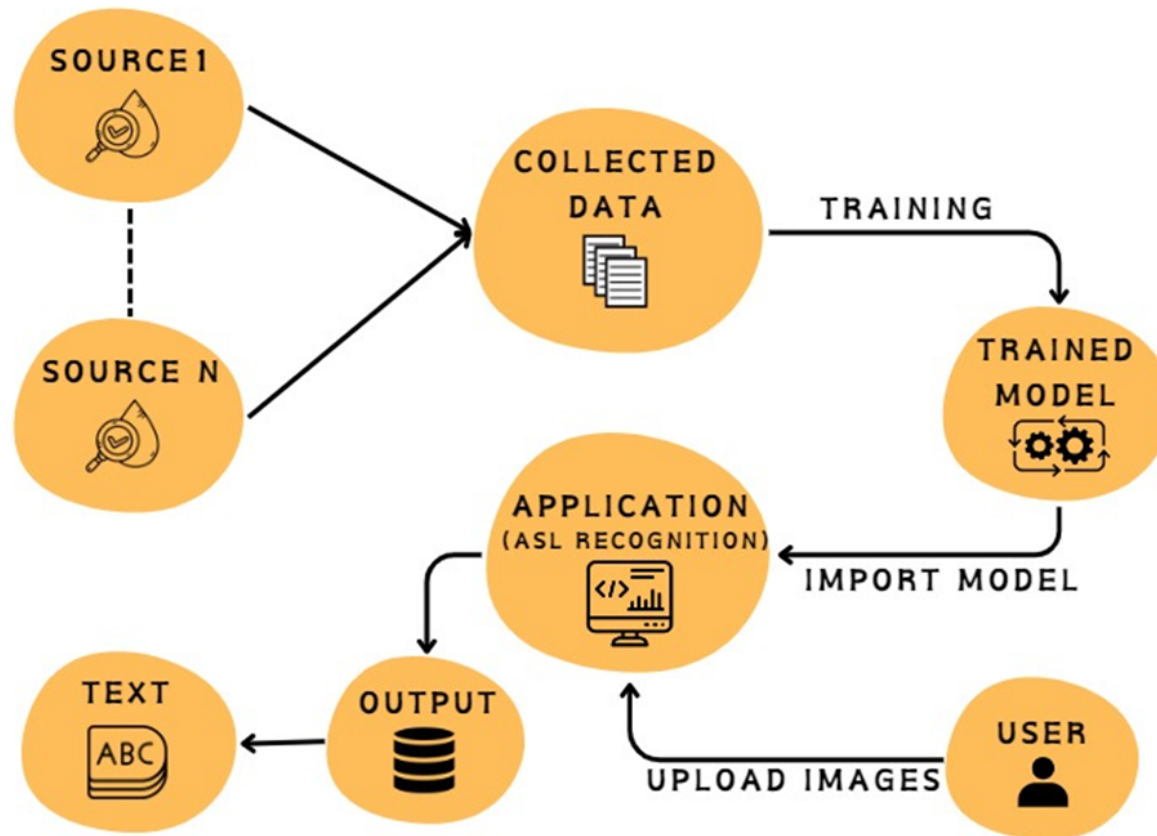


Project Design Phase-II
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	Team - 591979
Project Name	ASL - Alphabet Image Recognition
Maximum Marks	4 Marks
Team Members	Pujyam Sathvika, Rishika Krishna Ch

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.



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
As a developer	Projet setup and infrastructure	USN-1	Set up the development environment with the required tools and frameworks to start the ASL project .	Successfully configured with all necessary tools and frameworks.	High	Sprint-1
As a developer	Data collection	USN-2	Gather a diverse and large dataset of images containing all the different classes of alphabets(A, B, C, D,, Z), space, nothing, delete.	Gathered a diverse dataset of images (alphabets).	High	Sprint-1
As a developer	Data Preprocessing	USN-3	Preprocess the collected images by resizing and normalizing. Split the data into training and testing sets.	Preprocessed the dataset.	High	Sprint-2
As a developer	Model Development	USN - 4	Explore different deep learning architectures (CNN) to select the most suitable one for our ASL project.	Explore different DL models.	High	Sprint-2
As a customer	Training	USN-5	As a customer, I want a well trained model and very accurate predictions for the images I upload. Task: Implement data augmentation techniques to improve model's accuracy.	Test the model after training to check accuracy.	Medium	Sprint - 2

As a developer	Integrate the ASL recognition system into applications and services.	USN - 6	As a developer, I want the ASL recognition system to offer an API or web browser for easy accessibility.	Develop a website using HTML, CSS, JS.	Medium	Sprint - 3
Customer	Develop a web-based user interface for the ASL recognition system that provides users with a simple way to interact with the system.	USN - 7	As a customer, I want to access the ASL recognition system through a user-friendly web interface, so I can easily interact with the system without the need to install additional software	Users can access the ASL recognition system through a web browser.	High	Sprint - 3