Project Design Phase-II
Data Flow Diagram & User Stories

Date	23 October 2023
Team ID	Team-591621
Project Name	Project - Lip Reading using Deep Learning
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.

Video Data

Model
(Real-time
processing)

Subtitles → User Interface → User Preferences

Users

Feedback
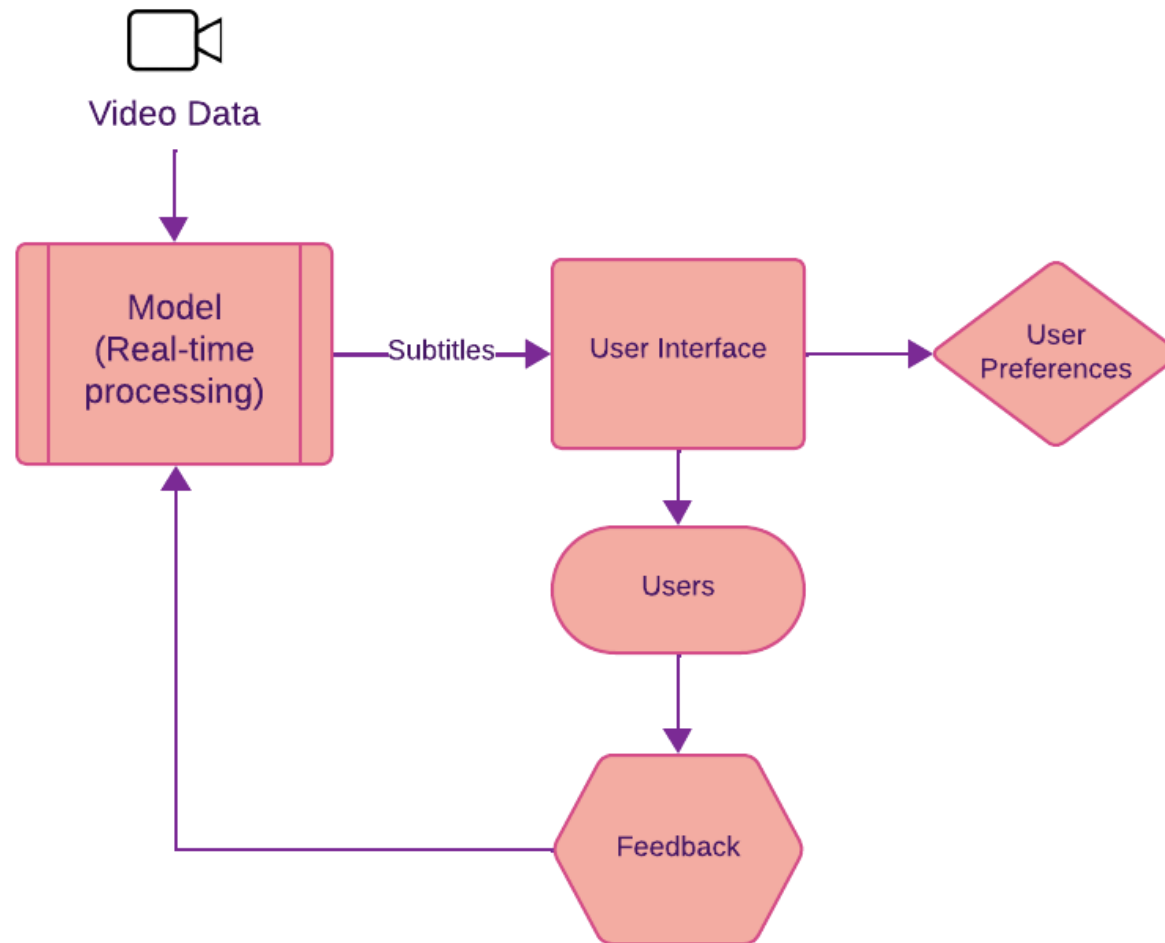
User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Video Input and Processing	USN-1	As a mobile user, I want to be able to use a lip reading app to understand what people are saying in noisy environments or when the audio signal is unclear.	The app should be able to accurately transcribe words from videos of people speaking in noisy environments or when the audio signal is unclear/The app should be easy to use and accessible to a wide range of users.	High	Sprint-1
hearing-impaired individual	Registration Confirmation	USN-1	As a user, I will receive confirmation email once I have registered for the applicationAs a hearing-impaired individual, I want to be able to use a lip reading app to improve my ability to understand spoken language and participate in conversations.	The app should be able to accurately transcribe words from videos of people speaking at a variety of speeds and with different accents/The app should be able to transcribe words in real time, so that the user can follow conversations as they happen.	High	Sprint-1
video conferencing participant	Real-time Integration	USN-1	As a video conferencing participant, I want to be able to use a lip reading app to improve the accuracy of transcriptions	The app should be able to accurately transcribe words from videos of	High	Sprint-2

			in real time.	people speaking in real time, even in noisy environments/The app should be integrated with popular video conferencing platforms, such as Zoom and Google Meet.		
customer service representative	Real-time Transcription	USN-1	As a customer service representative, I want to utilize the lip reading app to enhance communication with customers who prefer written communication or have hearing difficulties, improving the quality of customer interactions and support.	The app should support accurate transcription of customer inquiries and feedback during live chat or video customer service interactions/The app should have a user-friendly interface to enable customer service representatives to provide prompt and accurate responses. movements.	low	Sprint-1
teacher	Registration	USN-1	As a teacher, I want to use the lip reading app in educational settings to provide real-time transcriptions for students with hearing impairments, ensuring they can actively participate in classroom discussions and lectures.	The app should be able to transcribe words accurately in an educational environment with multiple speakers/The app should allow for easy integration with classroom technologies and be adaptable for different	Medium	Sprint-1

				educational subjects.		
Administrator	User Account Management	USN-1	As an Administrator, I want to manage user accounts and system security for the lip reading application.	The administrator dashboard should provide options to create, update, or deactivate user accounts/Access control settings should allow for defining user roles and permissions.	low	sprint-1
Healthcare Professional - Patient Communication	Healthcare Communication	USN-1	As a Healthcare Professional, I want to utilize the lip reading application to improve communication with patients who are hearing-impaired, ensuring they receive clear medical instructions and support.	The lip reading application should be seamlessly integrated into the healthcare facility's communication tools/The application should accurately transcribe medical discussions in real time, ensuring that critical healthcare information is accessible to all patients.	Medium	Sprint-1
Senior Citizen	User-friendly Interface	USN-1	As a Senior Citizen, I want the interface to be simple, intuitive, and easy to navigate, with clear icons and large text.	Users aged 65 and older can navigate the application without external assistance and find essential features within two minutes of use.	High	Sprint-1
	Clear and	USN-2	As a senior citizen, I want the app to provide	Users can access and	Medium	Sprint-2

	Concise Instructions		clear, step-by-step instructions and tutorials within the application to help seniors learn how to use it.	understand the instructions, and a majority of users can complete a basic tutorial without help.		
	Simplified Registration and Login	USN-3	As a senior citizen, I want to make the registration and login processes as straightforward as possible. Consider alternatives to complex passwords, such as biometric authentication.	The registration and login processes are completed in under two minutes without requiring the user to remember complex passwords.	High	Sprint-1