

Project Design Phase-II

Data Flow Diagram & User Stories

Date	6 November 2023
Team ID	Team - 591977
Project Name	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.

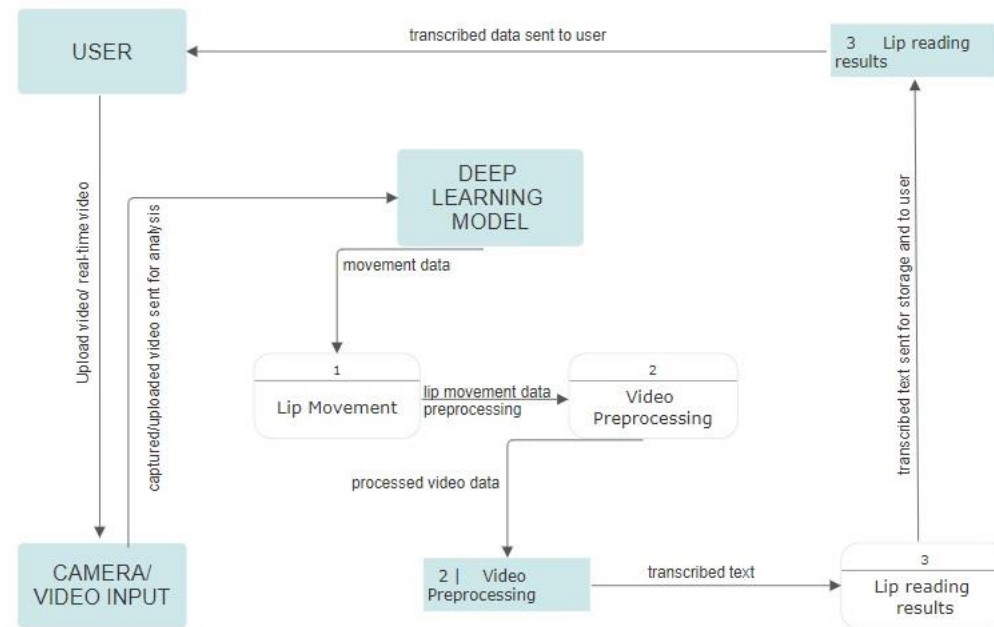


Fig.: DATA FLOW DIAGRAM OF LIP READING USING DEEP LEARNING

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 create an account with a username and password.	I can access my account/dashboard.	High	Sprint-1
		USN-2	As a user, I will receive a confirmation email once I have created my account.	I can receive a confirmation email.	High	Sprint-1
		USN-3	As a user, I can create my account through other social accounts.	I can register and access the dashboard with other social accounts' logins.	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail.		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering my email and password.	I can log in securely to access the lip reading system.	High	Sprint-1
	Dashboard	USN-6	As a user, I want to upload a video with clear lip movements for analysis.	I can upload videos to be analyzed.	High	Sprint-2
		USN-7	As a user, I want to see the transcribed text from lip movement analysis.	I can view the transcribed text of my uploaded videos.	High	Sprint –2
		USN-8	As a user, I should be able to choose a specific video from my uploaded videos for lip reading.	I can select at my convenience a particular uploaded video for analysis.	Medium	Sprint-2
		USN-9	As a user, I should be able to access previously generated lip-reading results for a specific video.	I can view previously analyzed results of my uploaded videos.	Medium	Sprint-3
		USN-10	As a user, I should be able to download or share the lip-reading results in various formats (text, subtitles, etc.).	I can export lip reading results.	Low	Sprint-5
		USN-11	As a user, I should be able to use a webcam to perform real-time lip reading on live conversations.	I can perform Real-time lip reading.	High	Sprint-2
		USN-12	As a user, I should be able to control the speed of video playback for more accurate lip-reading results.	I can adjust video playback speed.	Medium	Sprint-3
		USN-13	As a user, I should be able to request a re-analysis of a previously uploaded video if	I can request re-analysis of a previously uploaded video.	Low	Sprint-4

			the initial results were inaccurate.			
		USN-14	As a user, I should be able to integrate the lip-reading system with other applications through an API.	I can access Lip Reading API.	High	Sprint-4
		USN-15	As a user, I should be able to see the confidence score or accuracy rating for the lip-reading results.	I can view Lip reading accuracy.	Medium	Sprint-8
		USN-16	As a user, I should be able to update my user profile information, including email, password, and profile picture.	I can manage my user profile efficiently.	Medium	Sprint-1
		USN-17	As a user, I should be able to access a knowledge base, FAQs, or contact customer support for assistance.	I can access help and support when need be.	Medium	Sprint-5
Administrator	User Management	USN-18	As an administrator, I should be able to add user accounts.	I can manage user account by adding them.	High	Sprint-6
		USN-19	As an administrator, I should be able to suspend or delete user accounts.	I can efficiently manage redundant and dead traffic by deleting user accounts.	High	Sprint-6
	System Maintenance	USN-20	As an administrator, I should be able to perform routine maintenance tasks to ensure the system's reliability and performance.	I can look after the system's health via routine maintenance checkups.	High	Sprint-6
	Monitor usage	USN-21	As an administrator, I should be able to Track system usage and generate usage reports for analysis.	I can monitor the traffic and usage.	High	Sprint-5
	Manage content	USN-22	As an administrator, I should be able to remove inappropriate or copyright-violating content uploaded by users.	I can manage content to ensure reliable content.	High	Sprint-7
Developer	API Documentation	USN-23	As a developer, I should be able to access comprehensive documentation for the lip-reading system's API.	I can manage API Documentation.	High	Sprint-3
	Integration Support	USN-24	As a developer, I should be able to receive technical support for integrating the lip-reading system with external applications.	I can integrate support for the lip-reading system with external applications.	High	Sprint-7

	Access Training Data	USN-25	As a developer, I should be able to utilize a labeled dataset for training and fine-tuning the deep-learning model.	I can access labeled dataset for better training of the deep-learning model.	High	Sprint-7
	Model Update	USN-26	As a developer, I should be able to update the deep learning model periodically to improve accuracy and adapt to new languages or accents.	I can update the model periodically to improve accuracy or add new languages or accents.	Medium	Sprint-8