SHAHEED ZULFIKAR ALI BHUTTO
INSTITUTE OF SCIENCE AND TECHNOLOGY

Final Year Project Report

Language Translator for Video App

Project Team:

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Date: 29th, Sep, 2022

Project Supervisor:
Dr. Muhammad Raza

Submitted in the partial fulfillment of the requirements for the degree of

Bachelor of Science in ComputerScience
in the
Faculty of Computing and Engineering Sciences

Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology
(SZABIST) Karachi Campus

Declaration of Authorship

We Jarnail Valasai (1812300) and Ritick Maheshwari (1812317) declare that this report "Language Translator for Video App" and the work presented in this report is our own.

The work has been done completely while in the candidacy for a bachelor's degree at Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology (SZABIST) Karachi, any report previously submitted on this topic in this university or any other institution is clearly mentioned in this report. Everything we used in this report which is submitted by others or belong to any other person or organization is stated in this report.

We have always cited the work we have used. We have acknowledged all source of help we used for this report. The report is based on the research work done by the team members with, we have clearly stated the sources where we took help from to conduct the research.

Signed: **Jarnail Valasai (1812300)**

Ritick Maheshwari (1812317)

Date: 29th Sep, 2022

Project Description

Basically, it is a web application developed with React.js with integrated Firebase authentication, that will help the user to sign up or log in after successful login they can upload a video of MP4 format with the language of the video being English to translate the video into French. After uploading the video, the video will be translated into French after some time and shown up on the screen to be played or can be downloaded.

After uploading the video movie tools are used to extract the audio from the video then a speech to text library is used to recognize the text. For translation of English text into French we have used deep learning model LSTM for the training of the sequence to sequence model. The trained model translates the text and using the text to speech model audio is generated which is integrated into the video.

Acknowledgement

In the name of ALLAH, the Most Gracious and Merciful, who bestowed upon us the wisdom and bravery to engage in this field of study we would first want to express our gratitude to our Supervisor, Sir Dr Muhammad Raza, as the study subject was new to us and we needed the proper direction. Sir Raza supported us throughout the project and was always available for us anytime we needed advisor assistance with it. We want to thank all of our teachers for guiding us with their expertise and experience, as well as our parents for always being there for us and pushing us to be better. Finally, we would want to express our gratitude to the institution where we began our adventure, the encouraging teachers, and the welcoming set.

Table of Contents

Project Proposal

For

Language Translator For Video App

Prepared by

Jarnail Valasai (1812300)

Ritick Maheshwari (1812317)

Supervisor

Dr. Muhammad Raza

SZABIST

29/09/2022

1. Introduction

We are developing a video translator for educational videos which will take video as input (English audio) and convert it into video of French version. The video will be translated and the video will be saved.

2. Objective

The main objective is to design a software that can overcome the language barrier that appear between the instructors and their students.

3. Problem Description

As we are living in a very diverse country there are two main languages that are used in educational institutes that are Urdu and English. Some teacher prefers English as their medium of teaching most of our students don't understand that much English because of there is Urdu. And many students use internet to do research and watch lectures, almost all of these lectures are available in English.

Our software will be able to resolve this problem. But at the moment we have trained French data for translation. It will take a video is in English and translate it into French language video.

4. Methodology

The translation software will be AI based system that would first take a video and extract the audio from the video, and text from that audio. The system will translate the text into French language. The AI will generate the audio from these translated subtitles and that audio will be punched on the given video.

5. Project Scope

The idea is to develop a Language translator for students to understand the lecture available in English language the language translator would translate it into French language. There will be a website where users can Login/Signup. The translated video will be sent to their email.

6. Feasibility Study

Risks Involved:

- Noise in the given video.
- Distraction

Resource Requirement:

- Laptop
- Python
- React
- NodeJS
- Database(Firebase)

7. Solution Application Areas

Our project has some real values and we are firstly targeting our university where most of the instructors teach in English and many of the students are not capable of understanding whole lectures in English. But for now our project will be trained for English to French because of vast data available for French.

8. Tools/Technology

- Internet connectivity
- Laptop
- Python
- React
- NodeJS
- Database(Firebase)

9. Expertise of the Team Members

We are equipped with AI development knowledge which is one of main part of the project. For the website part of our project, we are currently learning web development. Insha'Allah this will help us in the completion of the project in the given timespan. We both have an equal interest in the proposed project.

10. Milestones

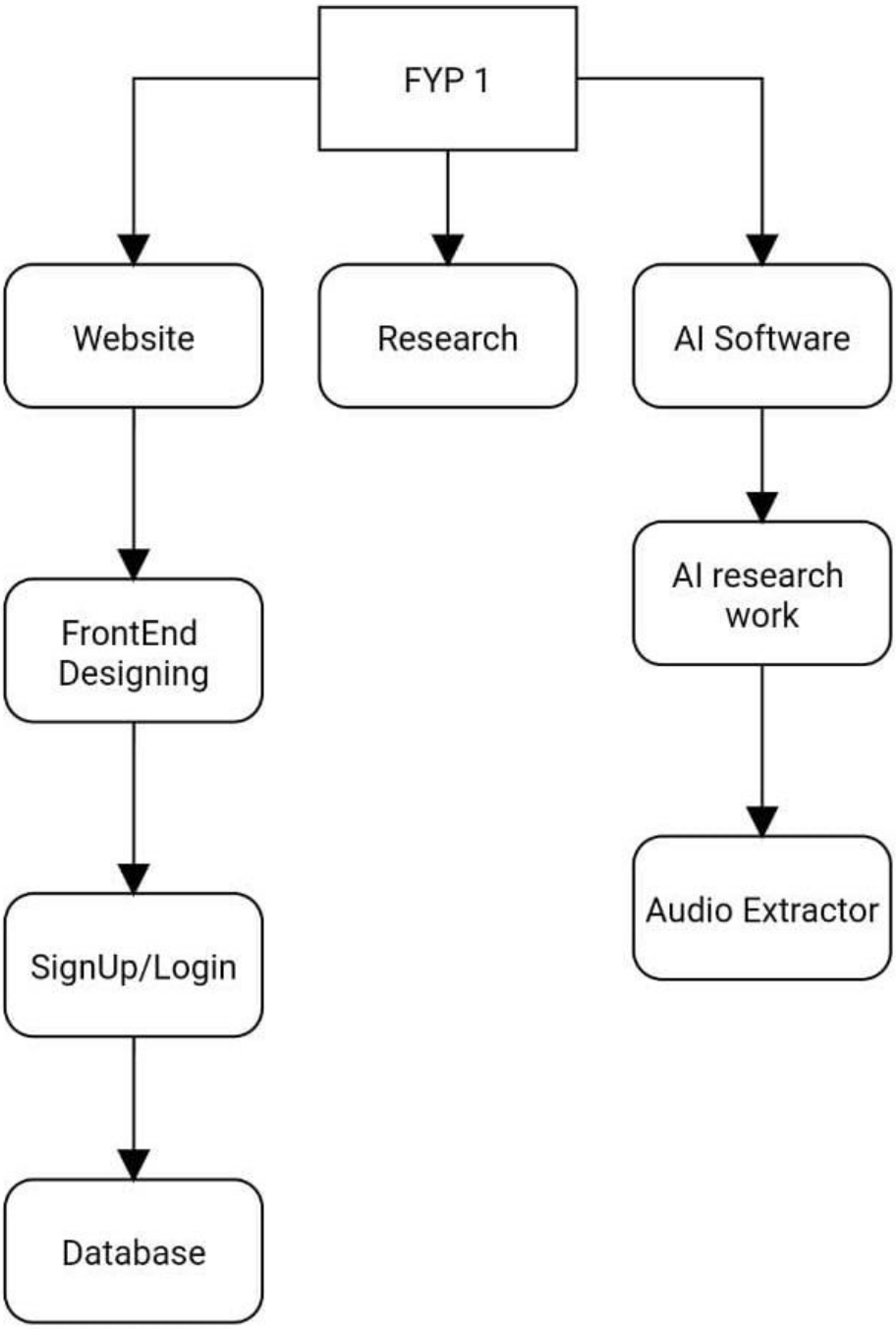
- Audio Extraction
- Text generation
- Text Translation
- Audio generation through translated Text
- Audio punching to the Video
- Website
- Website layout
- Sign Up/Login
- Subtitles Editing
- Emailing the output Video

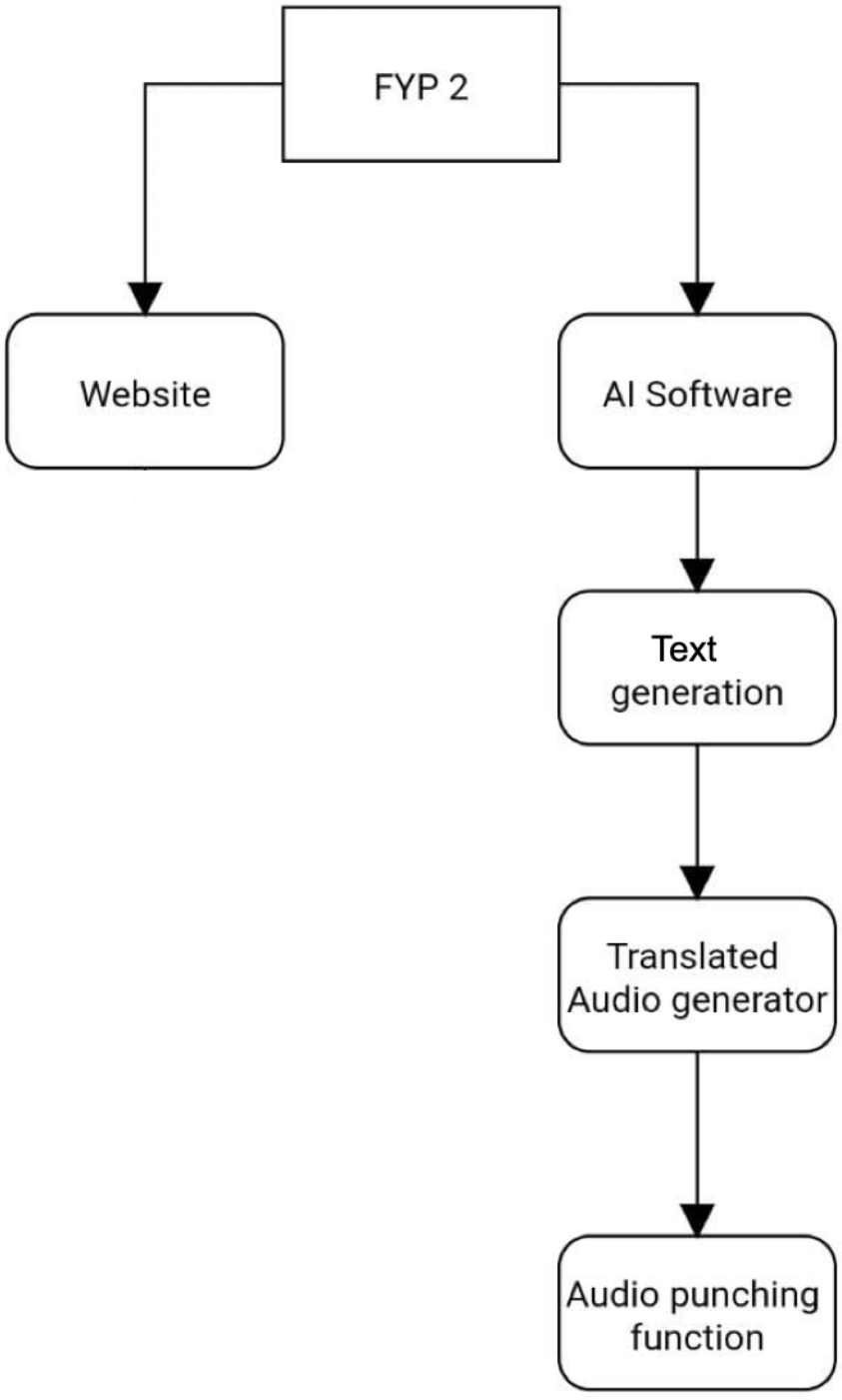
11. Project Schedule

FYP-1 and FYP-2 Gantt chart

Gantt chart attached separately.

12. Work Breakdown Structure




FYP 2
Website
AI Software
Text generation
Translated Audio generator
Audio punching function

Software Requirements Specification

For

Language Translator For Video App

Prepared by

Jarnail Valasai (1812300)

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Supervisor

Dr. Muhammad Raza

SZABIST

29/09/2022

1. Introduction

1.1 Purpose

The idea is to build an audio translator website for educational videos which will take video as input and convert it into any trained language through LSTM algorithm. The video will be translated and video will be previewed and can be saved.

1.2 Document Convention

This Document was created based on the IEEE template for System Requirement Specification Documents.
This Document contain Times New Roman Family for the heading with size of 14, 18.
And for the paragraph we use Times New Roman Family with size of 12.

1.3 Intended Audience and Reading Suggestions

This project aims to use Artificial Intelligence to solve a challenge in the real world. The translation software will be AI based system that would first take a video and extract the audio from the video, Convert the audio into text and that text will be translated through our trained model which is based on LSTM algorithm. That text will be converted into an audio using google text to speech. That audio will be attached on the given video.

1.4 Product Scope

The idea is to develop a language translator for students to understand the lecture if they are given in any language, the language translator would translate it into desired language. There will be a website where the students and teachers can Login/Signup. The translated video will be previewed and can be saved.

1.5 References

https://www.youtube.com/watch?v=I2UBjN5ER4s&ab_channel=BrianDesign
https://www.youtube.com/watch?v=PKwu15ldZ7k&ab_channel=WebDevSimplified
https://reactjs.org/docs/getting-started.html
https://data-flair.training/blogs/language-translation-machine-learning/

2 Overall Description

2.1 Product Functions

- It will have Login/Signup Form.
- User Dashboard
- Audio Extraction
- Text Generation
- Translation using Trained Model
- Audio generation through translated text
- Audio attached to the Video

2.2 User Classes and Characteristics

This app can be used by people like Student and Teachers as well as people who want to translate video for any purpose. Our project has some real values and we are firstly targeting our university where most of the instructors teach in English and many of the students are not capable of understanding whole lectures in English.

2.3 Operating Environment

- It is a web-Based Application.
- Google Chrome Browser.
- Or any other browser

2.4 Design and Implementation Constraints

This Project is a web-based Application, where for the website Front-End we are Using React.js and for the Back-End we are using Python. For coding part we are using we will be using VS Code Editor in which all the code will be coded and connected along with the Firebase database. In Back-End we are using our trained model and libraries from google, the model is used to translate the video.

2.5 User Documentation

SRS and SDS documents will be provided.

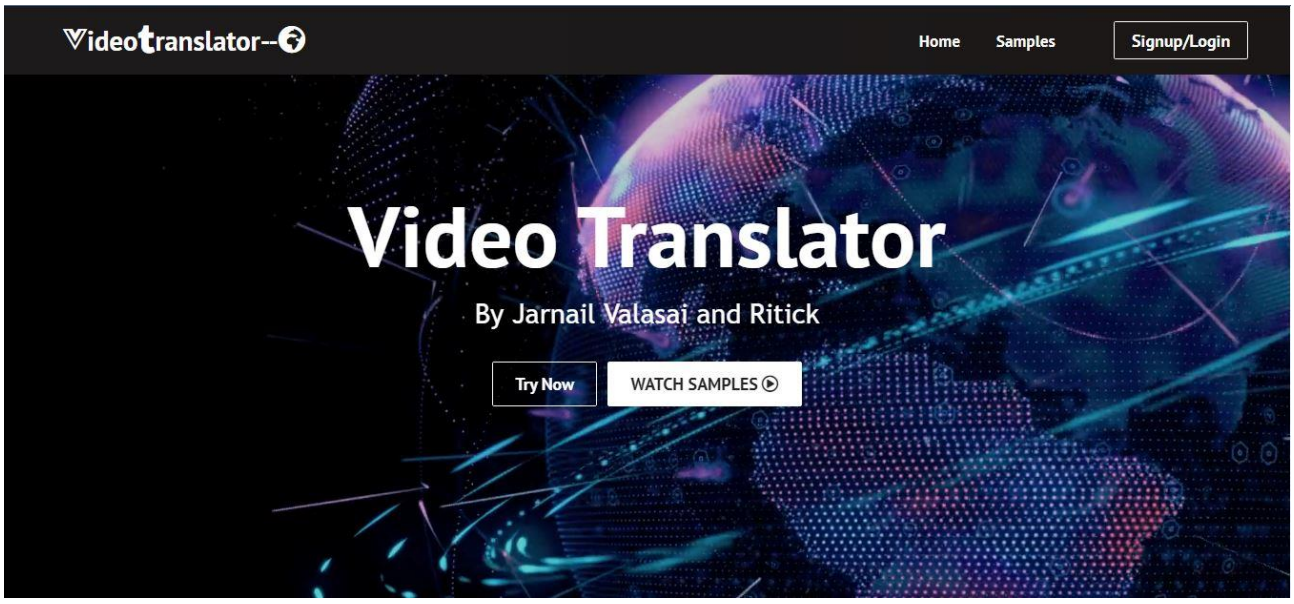
2.6 Assumptions and Dependencies

We assume that all the users of the software have the most basic understanding of interacting with Web Environment. In addition to that, we also do that there will be interacting website so the user can easily use our website.

3 External Interface Requirements

3.1 User Interfaces

Design has always been my first step when developing an application. Not only does it solidify your website design so you don't go changing it in code to try different things but with a design in place I can get a feel for how my website will potentially look and function.



The design was fairly straightforward with my main screen where there is an authentication system, where user have to Sign up and login to our application and user is redirected to their dashboard where they can Upload and translate the video.

3.2 Hardware Interfaces

- Computer or Laptop.
- Internet Connection

3.3 Software Interfaces

Programming language:
React.js and Python.
IDE's and code editor:
VS code

DATABASES:
Firebase

4 System Features

4.1 System Feature

4.1.1 Login:

USECASE NAME: Login	
Summary	This Use case Validates actor login credentials to access system
Actor	User
Preconditions	Actor must be registered in system and has access to login
Basic course of event:	
Actor Action	**System Response**
1) Actor Run Website. 2) Actor will enter its Email and Password and Press login button.	1) Show Home Screen and login Screen. 2) System will check its credentials. 3) Display "User Login Successfully" and display User Dashboard.
Alternative Path: If actor has provided invalid credentials, then system will display "User Login Failed".	
Post Condition Display "User Login Successfully" and display User Dashboard.	

4.1.2 Register:

<table>
<tr><td colspan="3">USECASE NAME: Register</td></tr>
<tr><td>Summary</td><td colspan="2">This Use case Validates actor enter credentials to create his account</td></tr>
<tr><td>Actor</td><td colspan="2">User</td></tr>
<tr><td>Preconditions</td><td colspan="2">Actor must have open website to run</td></tr>
<tr><td colspan="3">Basic course of event:</td></tr>
<tr><td colspan="2">Actor Action</td><td>System Response</td></tr>
<tr><td colspan="2">1) Actor Run Website.
2) Actor click “Not have an Account Sign Up”.
3) Actor enter emails and password and press continue or connect with google.</td><td>1) System Show Home Screen and login Screen.
2) System will show User Register Screen.
3) System will check the information and display “User added successfully”.</td></tr>
<tr><td colspan="3">Alternative Path:
If actor has provided invalid credentials, then system will “Ask for correction”.</td></tr>
<tr><td colspan="3">Post Condition
Display “User Added Successfully”.</td></tr>
</table>

4.1.3 Forget:

<table>
<tr><td colspan="2">USECASE NAME: Forget</td></tr>
<tr><td>Summary</td><td>This Use case Validates actor to login when he she forgets password</td></tr>
<tr><td>Actor</td><td>User</td></tr>
<tr><td>Preconditions</td><td>Actor must be registered in system and has access to login</td></tr>
<tr><td colspan="2">Basic course of event:</td></tr>
<tr><td>Actor Action</td><td>System Response</td></tr>
<tr><td>1) Actor click “Forget Password”.
2) Actor will enter email and click yes button.
3) Actor open email and open the link webpage.
4) Actor will enter ne password and click to save button.
5) Actor open website and enter its email and password and press login button.</td><td>1) Request user to enter email.
2) Check credentials and display “Reset Link sent to your Email”
3) Request to enter new password on webpage.
4) Check entered credentials and “Display Password Changed” on webpage.
5) Display “User Login Successfully” and Display Home Screen.</td></tr>
<tr><td colspan="2">Alternative Path:
If actor has provided invalid Email with no account, then system display “Error! Reset” Link is not sent.</td></tr>
<tr><td colspan="2">Post Condition
Display “User Login Successfully” and display User Dashboard.</td></tr>
</table>

4.1.4 Upload Video:

<table>
<tr><td colspan="3">USECASE NAME: Upload Video</td></tr>
<tr><td>Summary</td><td colspan="2">This Use case Validates actor to upload the video.</td></tr>
<tr><td>Actor</td><td colspan="2">User</td></tr>
<tr><td>Preconditions</td><td colspan="2">Actor must be registered and logged into the dashboard in system.</td></tr>
<tr><td colspan="3">Basic course of event:</td></tr>
<tr><td colspan="2">Actor Action</td><td>System Response</td></tr>
<tr><td colspan="2">1) On dashboard actor will click on upload video.
2) Actor will upload their video.
3) Actor will select their language for translation of video.</td><td>1) System will provide a window to upload a video.
2) They will ask about the translation settings.
3) Video will be processed by the system.</td></tr>
<tr><td colspan="3">Alternative Path:
If actor has provided invalid file or invalid translation setting system will display “Error: try again!”</td></tr>
<tr><td colspan="3">Post Condition
Display “Upload Successfully” and display progress of translation.</td></tr>
</table>

4.1.5 Downloading:

USECASE NAME: Downloading	
Summary	This Use case Validates actor to download the video
Actor	User
Preconditions	Actor must have upload video and system will process the video
Basic course of event:	
Actor Action	**System Response**
1) Actor is waiting for the video to be translate. 2) Actor will download the video through dashboard.	1) After translating the video system will provide an option to download the video. 2) System will download the video.
Alternative Path: If actor has provided invalid file or invalid video file or failing in translating the video then system will display “Error: try again!”	
Post Condition “Actor will watch the translated video successfully”.	

5 Other Nonfunctional Requirements

5.1 Performance Requirements

We will train our own model which is LSTM (Long Short-Term Memory) itself which give us a performance advantage along with that we will be using Google libraries like Speech2text and text2speech to convert audio to text and vice versa.

5.2 Safety Requirements

There is not required such a safety requirement.

5.3 Security Requirements

There is not required such a safety requirement.

5.4 Software Quality Attributes

Availability: This Website can used on web-browser.

Usability: We follow React.js material design guidelines and a very simple interface that is gradio so our website is user friendly and easy to use.

Performance /Efficiency: Efficiency depends upon the audio quality of the given. More noise and disturbance free the audio of the video will be, the more efficient output we will get

Maintainability: Our Website is fairly modular and easy to work with. We also share the source code with both of us so that we can both test the problem and analyze the issue and change or fix the problem.

5.5 Business Rules

There is no specific requirements or roles required to use this app it's geared towards everyone.

6 Other Requirements

Appendix A: Glossary

Not Applicable

Appendix B: Analysis Models

Not Applicable

Appendix C: To Be Determined List

Not Applicable

Software Design Specification

For

Language Translator For Video App

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Supervisor

Dr. Muhammad Raza

SZABIST

13/12/2021

The Software Design Specification Outline

1. Introduction

1.1 Purpose of this document

The Purpose of this SDS is to facilitate analysis, planning, implementation, and decision making for this client-based software. It helps us to understand the model of this Software.

1.2 Scope of the development project

The idea is to develop a Language translator for students to understand the lecture if they are given in any language, the language translator would translate it into desired language. There will be a website where the students and teachers can Login/Signup. The translated video will be previewed and can be saved.

1.3 Definitions, acronyms, and abbreviations

Not Applicable

1.4 References

https://www.youtube.com/watch?v=I2UBjN5ER4s&ab_channel=BrianDesign
https://www.youtube.com/watch?v=PKwu15ldZ7k&ab_channel=WebDevSimplified
https://reactjs.org/docs/getting-started.html
https://data-flair.training/blogs/language-translation-machine-learning/

1.5 Overview of document

The SDS contains the UML diagrams i.e., Use case Diagram, Activity Diagram, Sequence Diagram, Functional Hierarchy Diagram. It also includes screenshots of GUI of this Software.

2. System architecture description

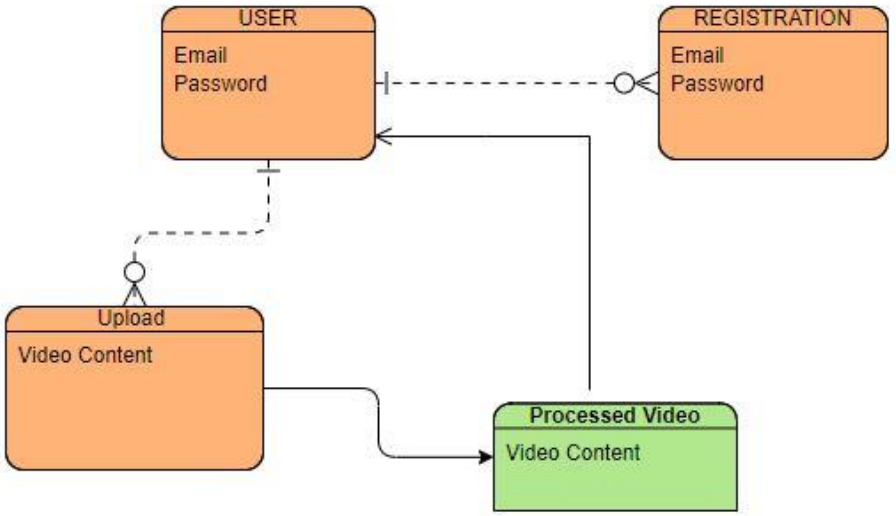
This section provides an overview and rationale for the program's data and architectural design decisions.

2.1 Section Overview

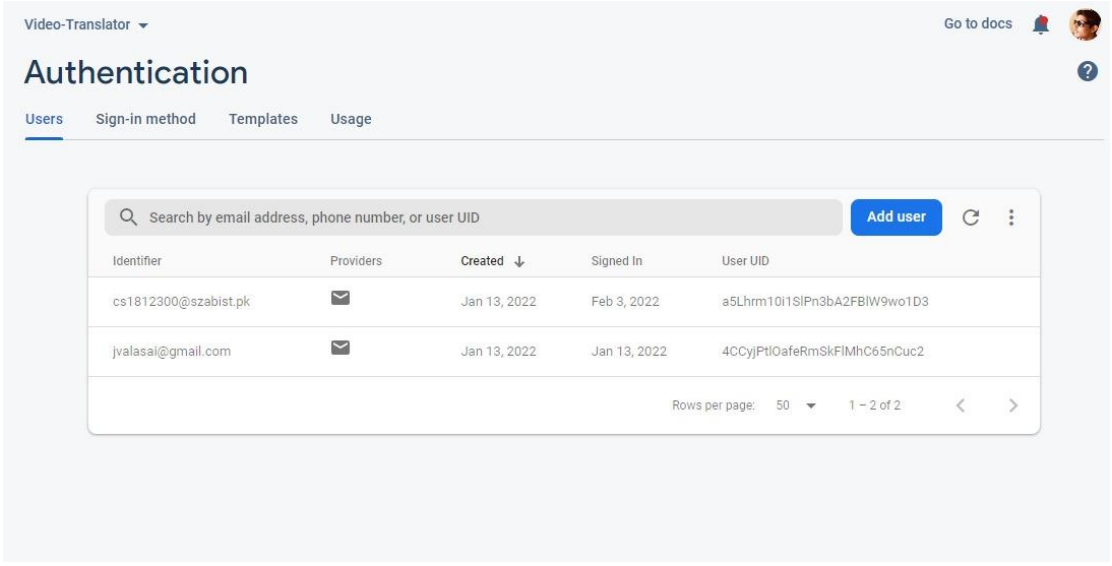
This section contains database screen shots. The software and languages use to create this system are mentioned under General Constraints heading. Hierarchical diagram of the system under.

2.2 Data Design

2.2.1 Entity Relationship Diagram

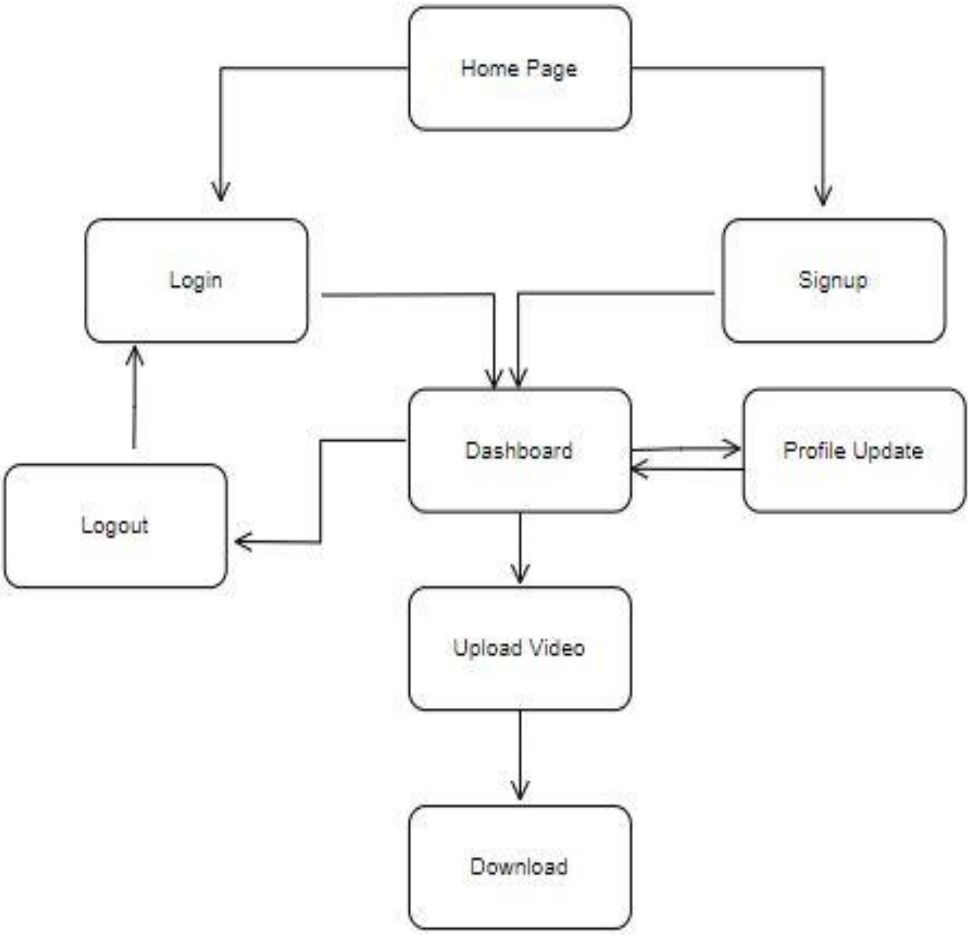


2.2.2 Firebase Screenshot



2.2.3 Program Structure

The Functional Hierarchical Diagram represent the structure of software working.



3. Detailed description of components

This section represents the meat of your document. Be as detailed as time allows.

I. **Section Overview**
In this section, we are describing the detailed description of components or library which we used in our system.

II. **Component in Detail**
Component 1: Authentication Users Library

Description

A use of authentication is the main component of our login system, it will authenticate that which user is login and is it already registered with our database or not.
We have to import it from pub package by import 'package: firebase_auth/ import "firebase/storage"

Identification	Authentication
Type	Controller class
Purpose	This library is used to authenticate that the user who is trying to log in is registered in our database or not. This library is basically used for the authentications from databases and mostly used in the login component or class.
Function	This help in creation of functions for authentication for user i.e., user already login, user already registered, signup-user, login-user, forget-password.
Subordinates	The internal structure of this component or library or packages usedare package:firebase_auth/import 'firebase/storage';
Dependencies	firebase_auth: ^0.20.0+1 firebase_core: ^0.7.0 The React use npm dependence for connecting firebase and React.
Interfaces	No user interface for this class but it will used as subordinates for login, signup, forget password class. The process messages will be handling by this class i.e., "user login successful".
Resources	Firebase
Processing	Function for connecting firebase, authentication functions include is login( ) , signup (), forgetPassword(),signout();
Data	for login function parameter required are email and password, for signup function parameter required are email and password, for sign-out function no parameter required, for islogin function no parameter required, for forget-password function parameter required is email,

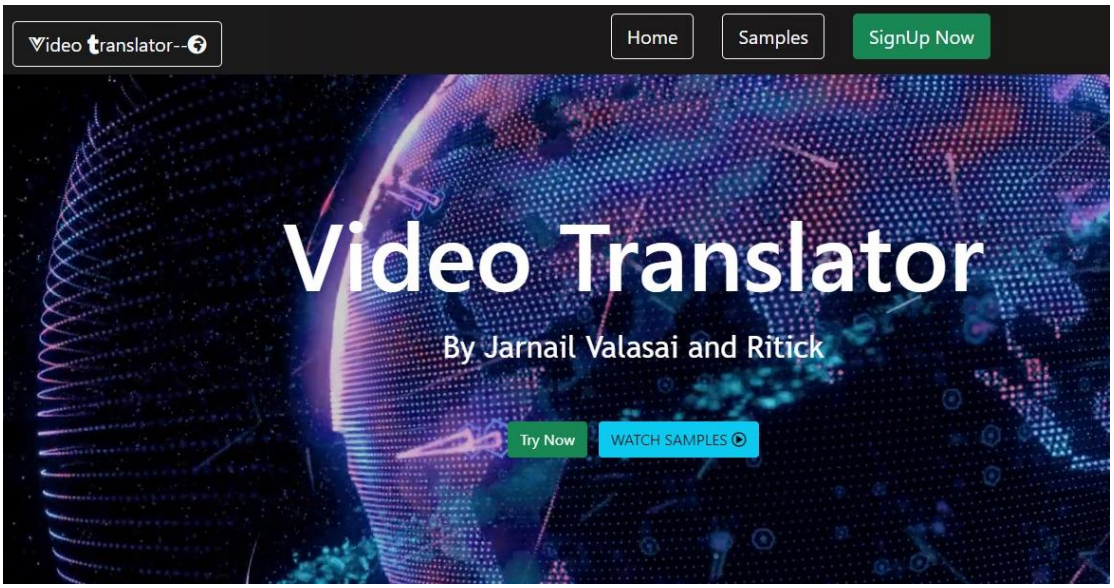
4. User Interface Design

I. Section Overview

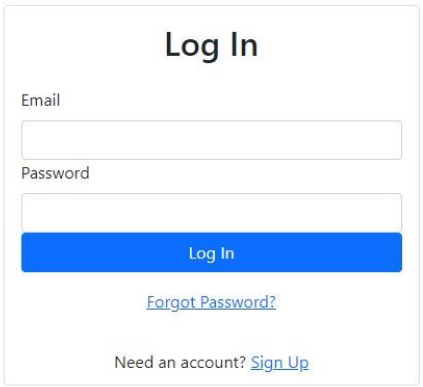
This section shows how the application front-end looks.

II. GUI Components

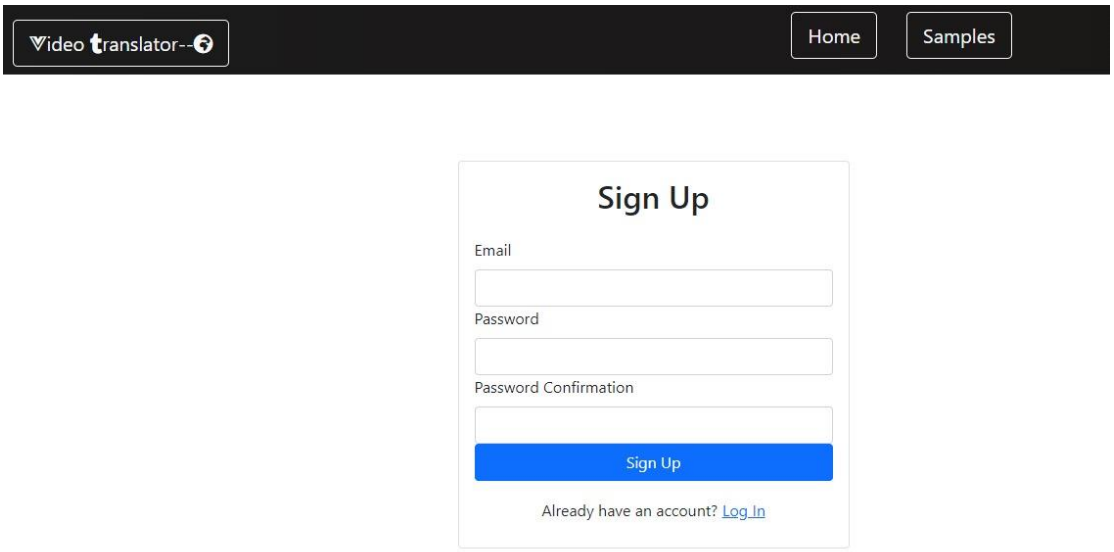
1. Home Screen



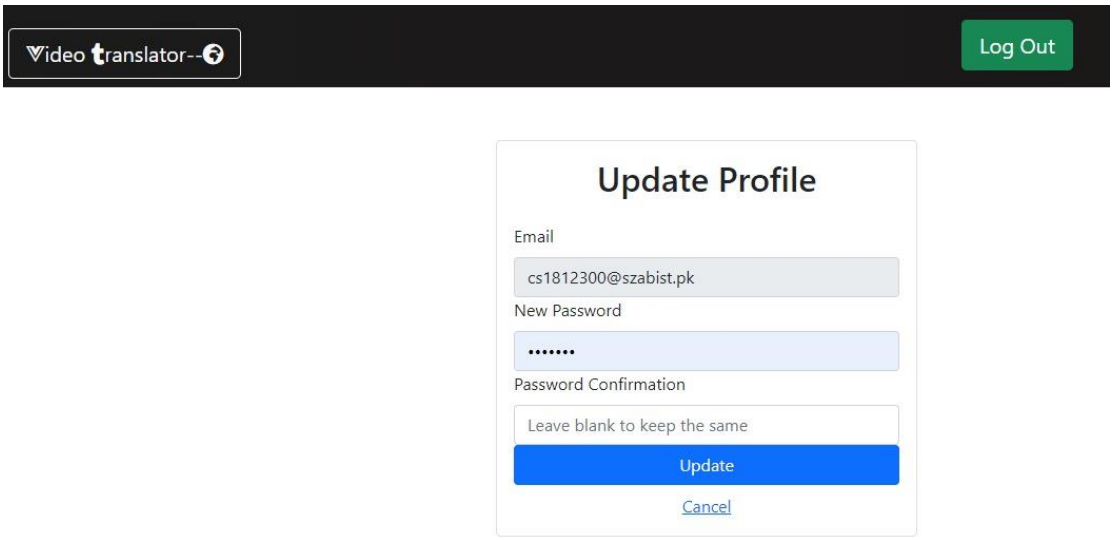
2. Login Screen



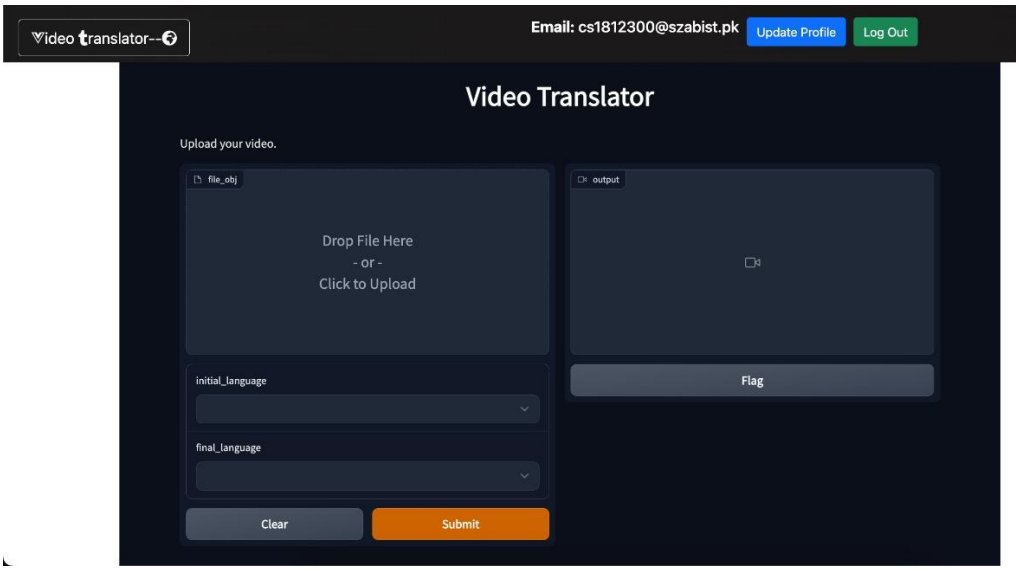
3. Signup Screen



4. Profile Update Screen



5. Dashboard:



III. **Detailed Description**

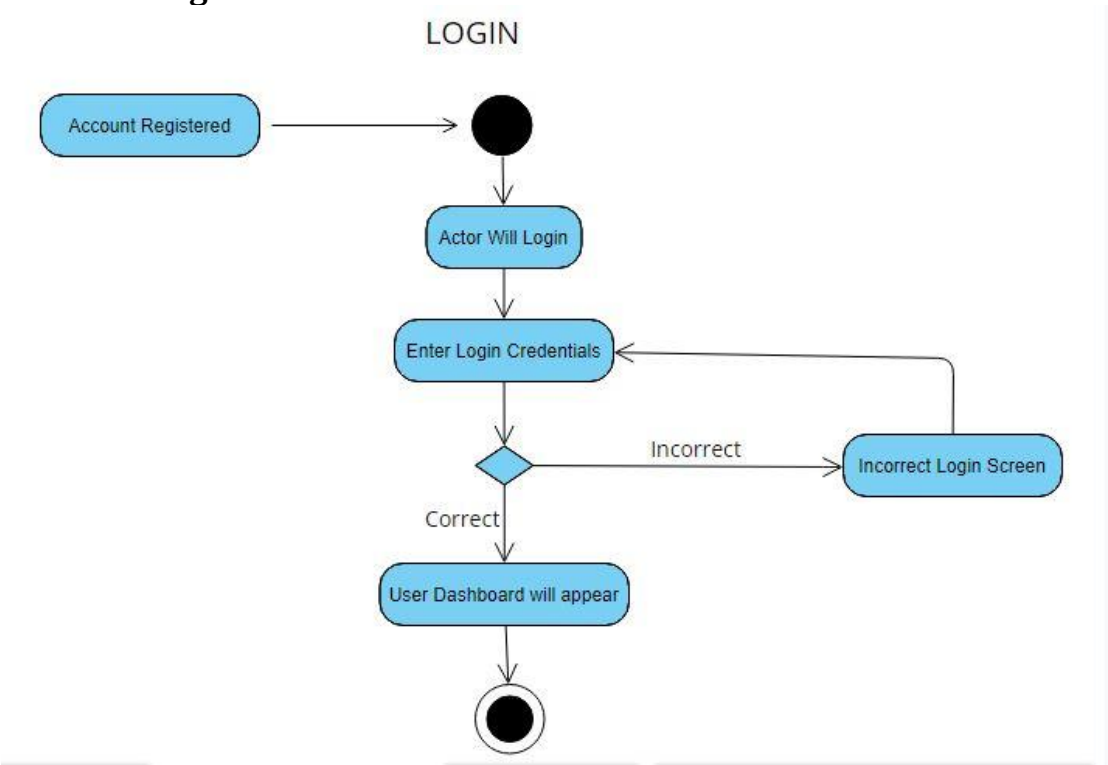
Provide a detailed description of the user interface including screen images. You may prefer to reference an appendix containing the screen snapshots.

5. Reuse and relationships to other products

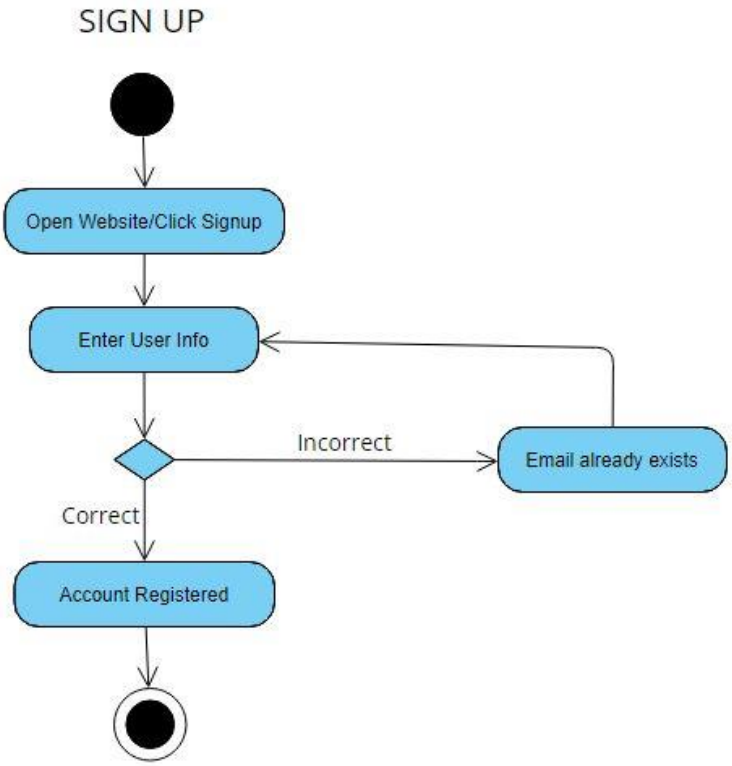
Not Applicable

6. Activity Diagram

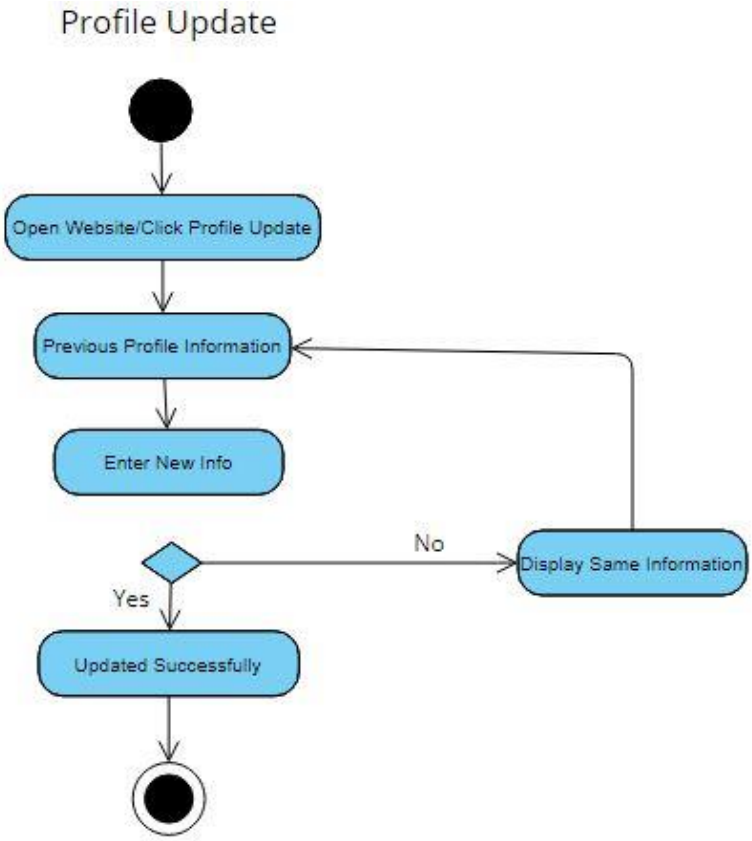
6.1. Login



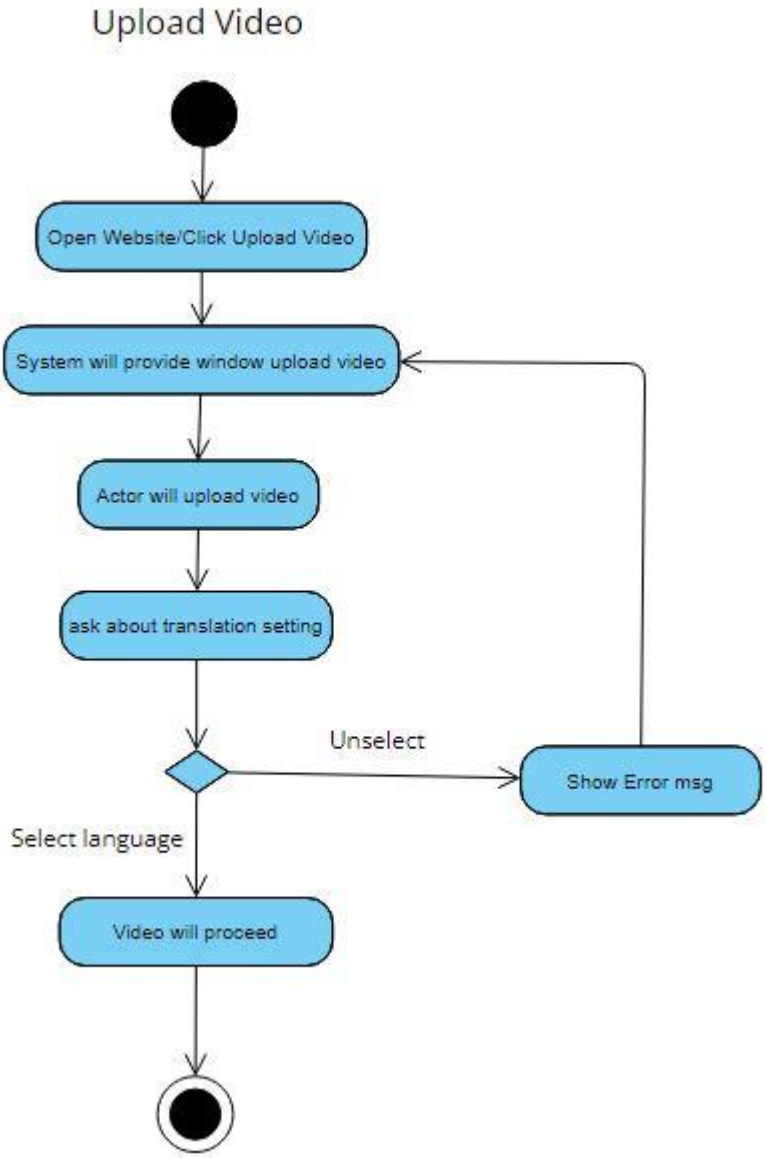
6.2. Signup



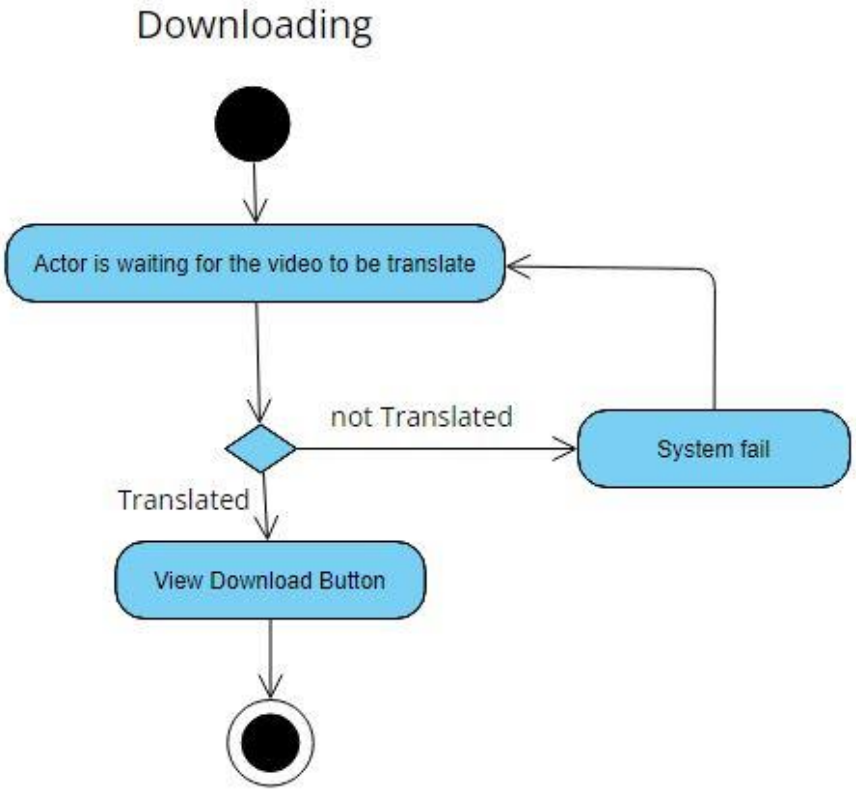
6.3. Profile Update



6.4. Upload Video

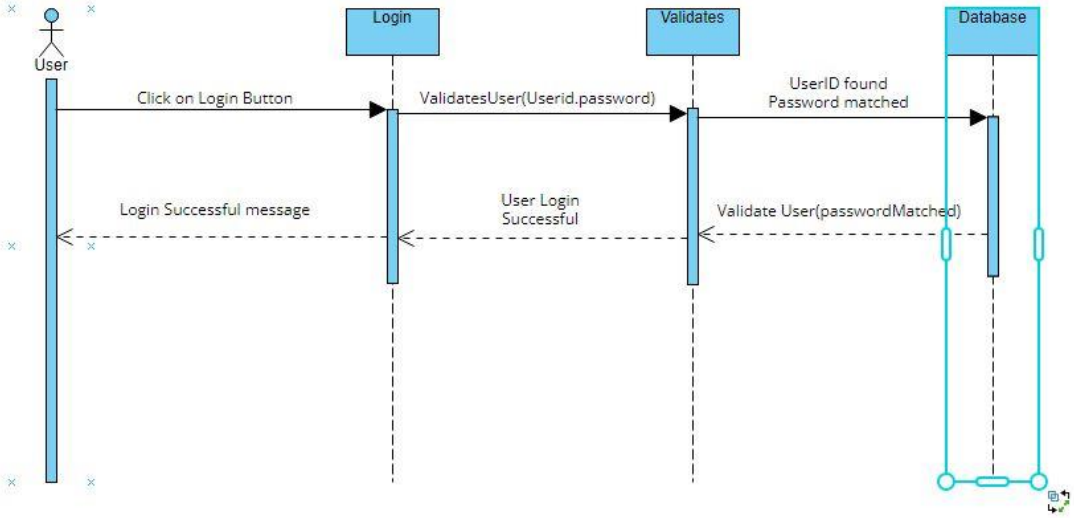


6.5. Download

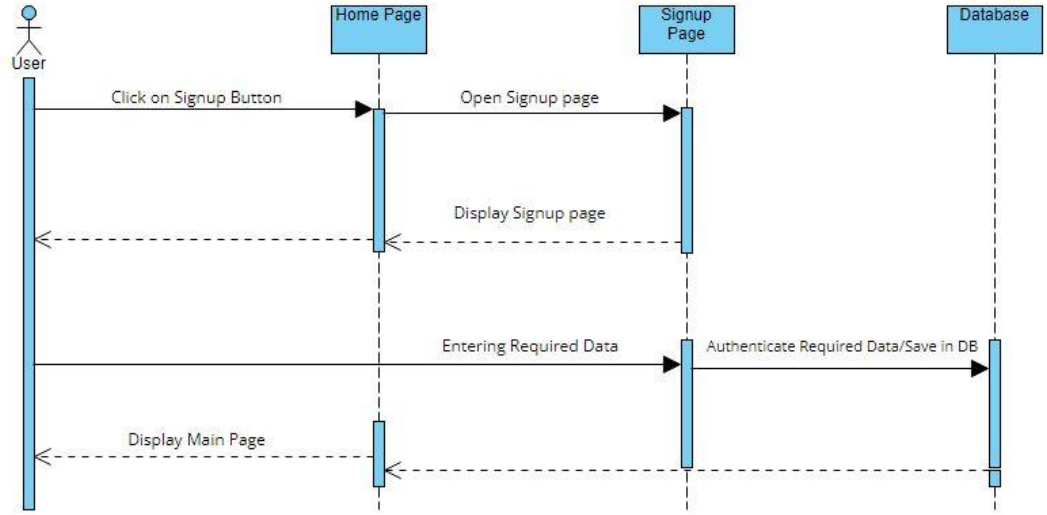

Downloading
Actor is waiting for the video to be translate
not Translated
System fail
Translated
View Download Button

7. Sequence Diagram

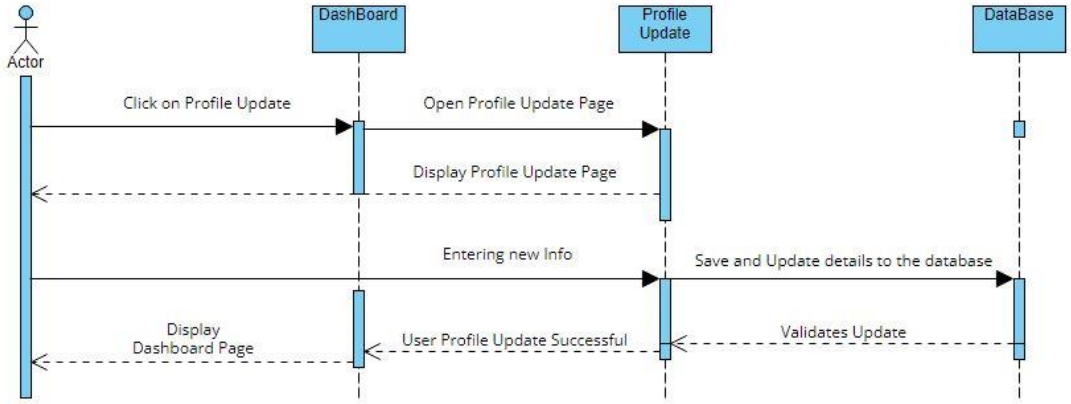
7.1. Login



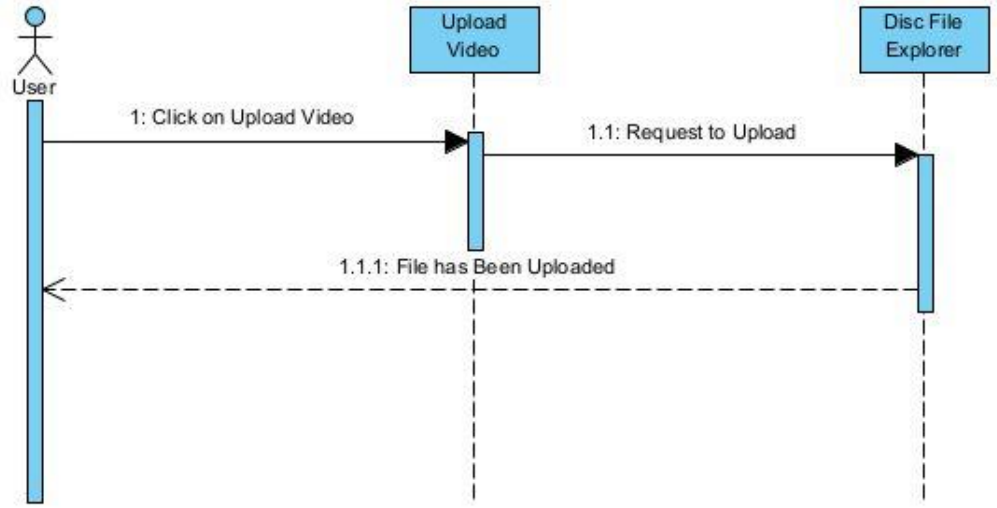
7.2. Signup



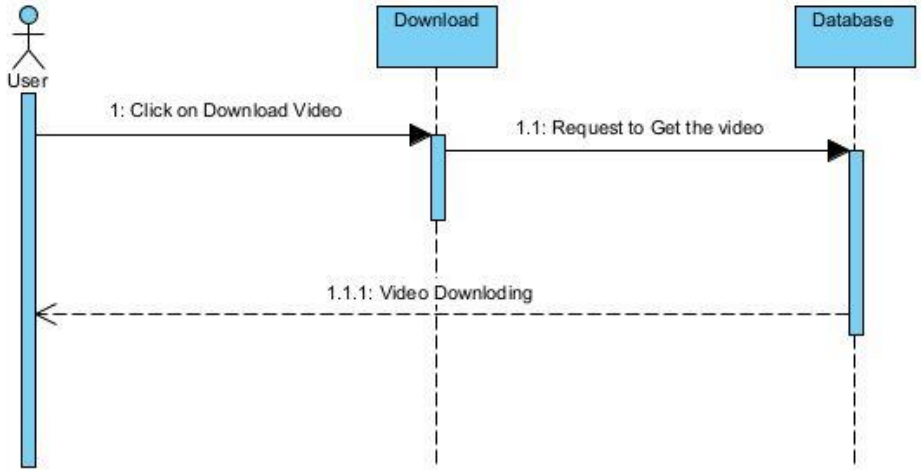
7.3. Profile Update



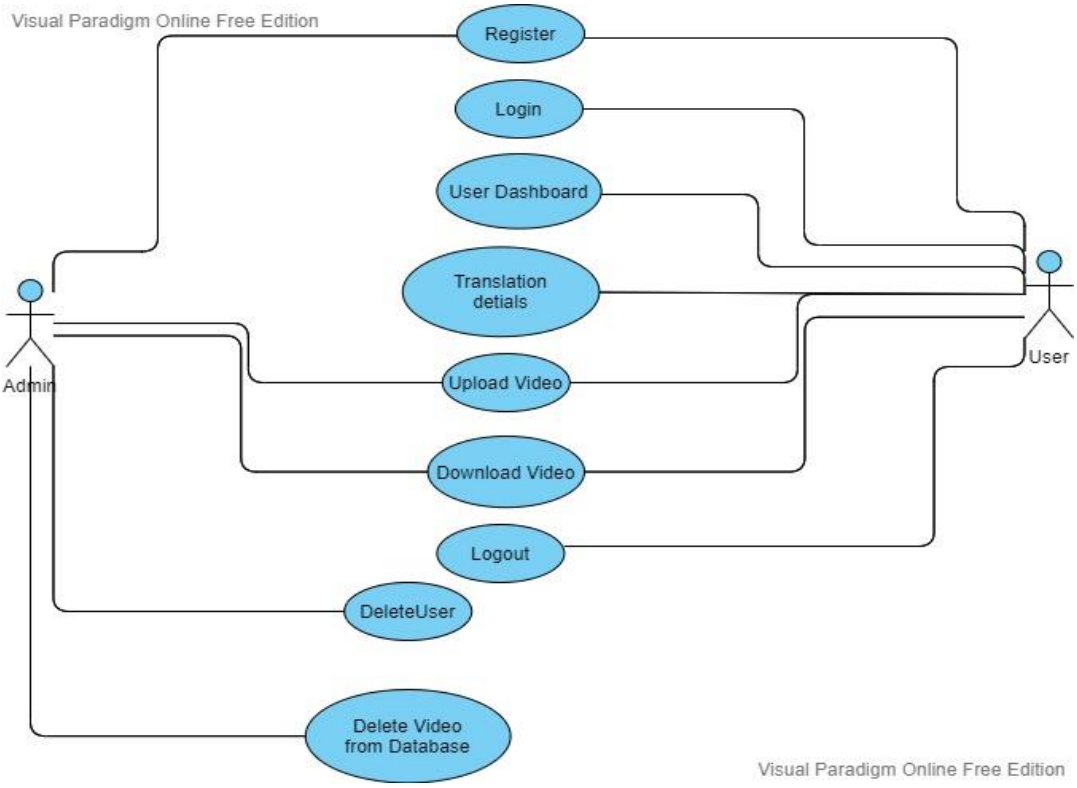
7.4. Upload Video



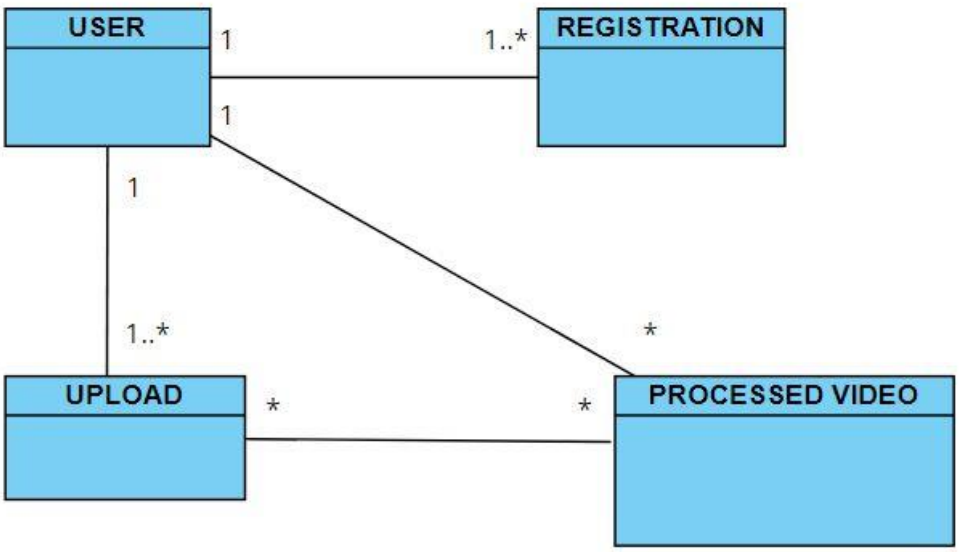
7.5. Download


User
Download
Database
1: Click on Download Video
1.1: Request to Get the video
1.1.1: Video Downloding

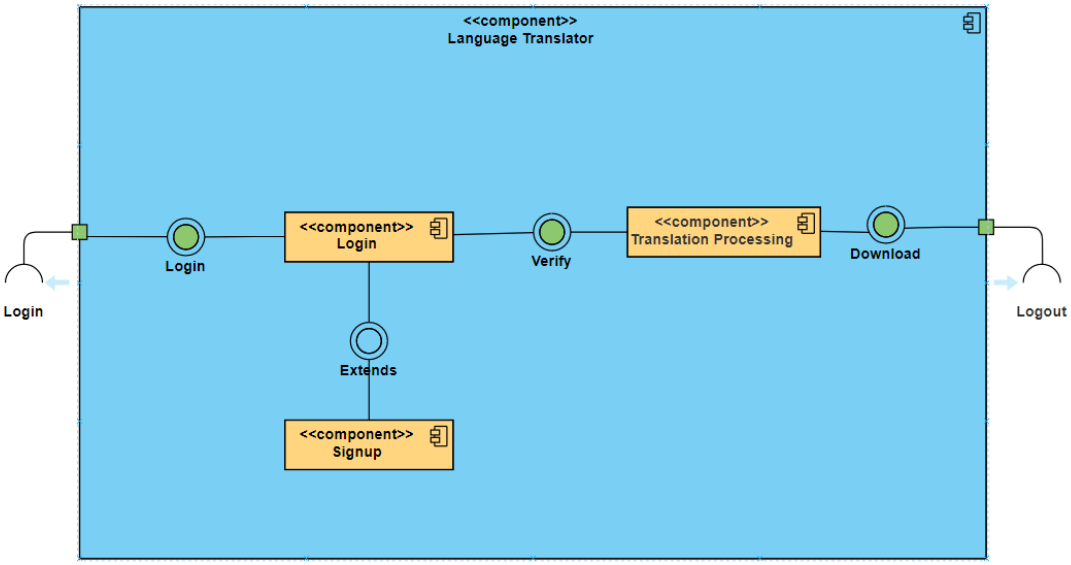
8. Use Case Diagram



9. Domain Model



10. Component Diagram



Test Case

For

Language Translator For Video App

Prepared by

Jarnail Valasai (1812300)

Ritick Maheshwari (1812317)

Supervisor

Dr. Muhammad Raza

SZABIST

29/09/2022

1. Test Cases

1.1. Login

Test Case ID	Test Case Name	Test Case Summary	Test Case Steps	Expected Result
01	LOGIN	It checks that user account exists and login credentials are correct. If yes login and show User and its respective Panel.	User Input the valid Email and valid Password.	Display "User Login Successful".
			User Input the invalid Email and invalid Password	Display "User Login Failed".
			User Input the valid Email and invalid Password	Display "User Login Failed".
			User Input the invalid Email and valid Password.	Display "User Login Failed".
			User do not enter Email and Password.	Display "Field cannot be empty"
			User do not enter Email and enter Password.	Display "Invalid Email Address"
			User do enter Email and do not enter Password.	User do not enter Email and Password.

1.2. Signup

Test Case ID	Test Case Name	Test Case Summary	Test Case Steps	Expected Result
02	Signup	It checks credentials entered are correct.	User Input the valid credentials.	"User Added Successfully" .
			User Input the invalid Email and invalid Password	Display "User Login Failed".
			User Input the valid Email and invalid Password	Display "User Login Failed".
			User Input the invalid Email and valid Password.	Display "User Login Failed".
			User do not enter Email and Password.	Display "Field cannot be empty"
			User do not enter Email and enter Password.	Display "Invalid Email Address"
			User do enter Email and do not enter Password.	User do not enter Email and Password.
			User do enter Email and do not enter Password	SIGN UP button disabled.

1.3. Profile Update

Test Case ID	Test Case Name	Test Case Summary	Test Case Steps	Expected Result
03	Modify Profile	It checks that modified credentials entered are valid.	User Input the valid Credentials.	Display "Profile Updated Successfully"
			User do not Input the Credentials.	Display "Please provide your new Credentials."
			User do not Input the Credentials.	Profile Update button disabled.

1.4. Upload Video

Test Case ID	Test Case Name	Test Case Summary	Test Case Steps	Expected Result
04	Upload Video	It checks that User upload the video entered are valid.	User Upload the valid Video.	Display "Video Uploaded Successfully"
			User do not Upload the Video.	Display "Please Upload the Video", and Video Upload button will disabled.

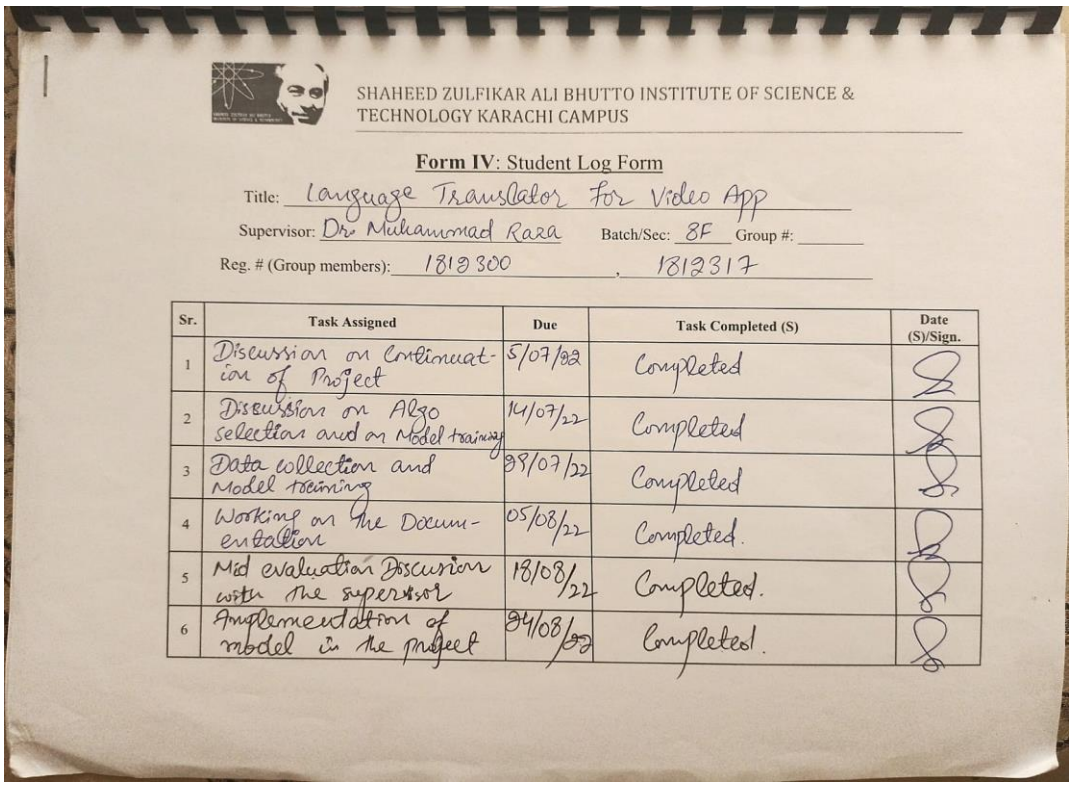
1.5. Download

Test Case ID	Test Case Name	Test Case Summary	Test Case Steps	Expected Result
05	Download	It checks that User Download the video is valid.	User Download the video.	Display "Video Download Successfully"
			User do not Download the Video.	Display "Please Download the Video"

User Manual

- User need to have VS code and Python Installed.
- Also need Google Chrome and Internet Connection.
- Open Project in VS code.
- Install Requirements.txt using PiP.
- Run "npm install" in terminals.
- Start both frontend and backend projects in VS code.
- Open Localhost.
- Signup/Login.
- Go to dashboard upload the video and wait for processing Output video will be previewed and can be downloaded.

Student Log Form



SHAHEED ZULFIKAR ALI BHUTTO INSTITUTE OF SCIENCE & TECHNOLOGY KARACHI CAMPUS

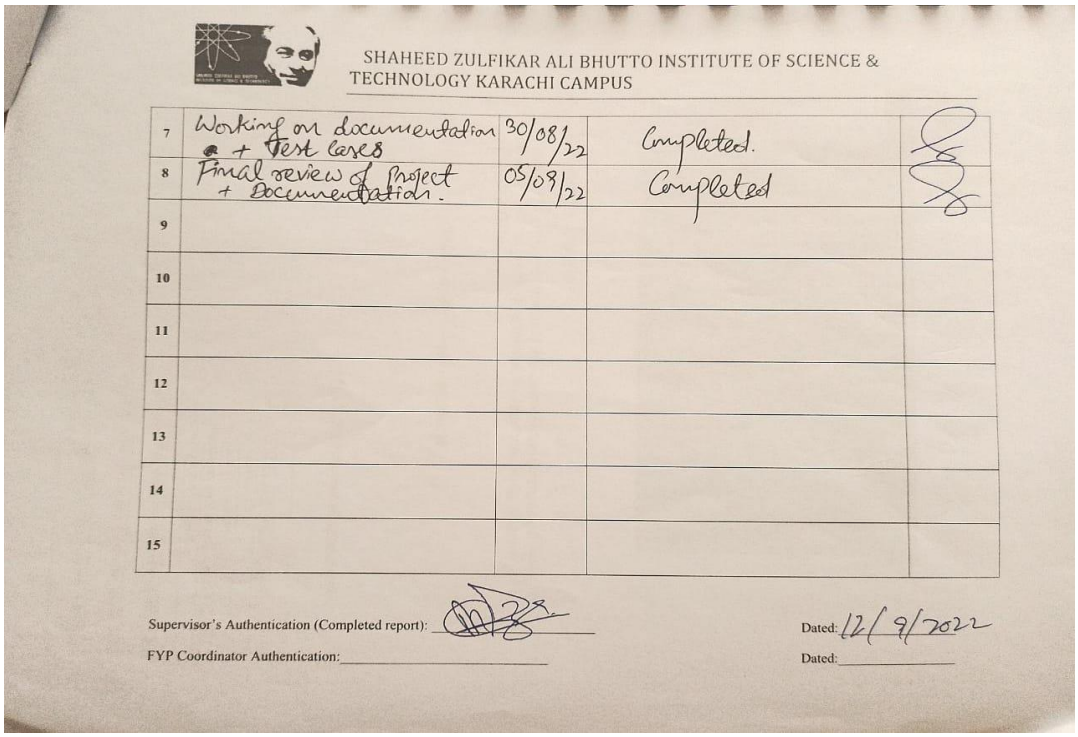
Form IV: Student Log Form

Title: Language Translator For Video App

Supervisor: Dr Muhammad Raza Batch/Sec: 8F Group #:

Reg. # (Group members): 1812300 , 1812317

Sr.	Task Assigned	Due	Task Completed (S)	Date (S)/Sign.
1	Discussion on Continuation of Project	5/07/22	Completed	
2	Discussion on Algo selection and on Model training	14/07/22	Completed	
3	Data collection and Model training	28/07/22	Completed	
4	Working on the Documentation	05/08/22	Completed.	
5	Mid evaluation Discussion with the supervisor	18/08/22	Completed.	
6	Implementation of model in the project	24/08/22	Completed.	



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7	Working on documentation & Test cases	30/08/22	Completed.	
8	Final review of Project + Documentation.	05/09/22	Completed	
9				
10				
11				
12				
13				
14				
15				

Supervisor's Authentication (Completed report): Dated: 12/9/2022

FYP Coordinator Authentication: Dated:

Iteration Plan

Iteration Plan – I

			FYP-I Iterations		
S.No.	**Features**	**Monthly Iteration-1**	**Monthly Iteration-II**	**Monthly Iteration-III**	**Monthly Iteration-IV**
1	documentation	Analysis SRS	create	UML diagrams||SDS draft	test cases and SDS final
		10%	25%	60%	Implementation (60%)
			Design and theme		
2	front end		Testing	Testing	
			Implementation (50%)	implementation (100%)	
				Testing	
				checking on code	
3	Assets	decide size	Creating assets for test	Adjust size and variants	
		15%	40%%	100%	
				Testing with data	connect with front end
4	backend code			debugging	test with new assets
				50%	Implementation (100%)
		***	***		
Output Features			11,2	1,2,3	1,4

Iteration Plan – II

			FYP-II Iterations		
S.No.	**Features**	**Monthly Iteration-1**	**Monthly Iteration-II**	**Monthly Iteration-III**	**Monthly Iteration-IV**
1	documentation	Analysis Training and Testing	create	UML diagrams||SDS draft	test cases and SDS final
		60%	60%	70%	Implementation (100%)
			Design and theme		
2	front end		Testing	Testing	
			Implementation (50%)	implementation (100%)	
				Testing	
				checking on code	
3	Assets	decide size	Creating assets for test	Adjust size and variants	
		15%	40%%	100%	
				Testing with data	connect with front end
4	backend code	Backend ML-Training	Issues Resolve in connecting	debugging	test with new assets
				50%	Implementation (100%)
		***	***		
Output Features			11,2	1,2,3	1,4

Gantt chart

	Task Mode	Task Name	Duration	Start	Finish
1		FYP-1	82 days	Mon 11/10/21	Tue 01/02/22
2		Idea Finalize and Supervisor selection	5 days	Tue 12/10/21	Mon 18/10/21
3		Resource and Hardware Research	3 days	Mon 18/10/21	Wed 20/10/21
4		Proposal Making and Submission	4 days	Sat 23/10/21	Wed 27/10/21
5		Defence Preparation	4 days	Thu 28/10/21	Tue 02/11/21
6		Website Documentation	7 days	Wed 03/11/21	Thu 11/11/21
7		Website FrontEnd Designing	7 days	Mon 15/11/21	Tue 23/11/21
8		SignUp/Login/Profile	7 days	Wed 24/11/21	Thu 02/12/21
9		Database	5 days	Fri 03/12/21	Thu 09/12/21
10		Documentation Working	7 days	Wed 15/12/21	Thu 23/12/21
11		AI research work	7 days	Mon 27/12/21	Tue 04/01/22
12		Working on audio extraction	7 days	Thu 06/01/22	Fri 14/01/22
13		Finalize Documentation	6 days	Sat 15/01/22	Fri 21/01/22

Gantt Chart

	Task Mode	Task Name	Duration	Start	Finish
1		FYP-2		Wed 02/02/22	
2		Advisor Meeting(further disscusion)	2 days	Thu 03/02/22	Fri 04/02/22
3		Document Revision	5 days	Mon 07/02/22	Fri 11/02/22
4		Extension in Research Work	5 days	Mon 14/02/22	Fri 18/02/22
5		Updating Documentation	6 days	Mon 21/02/22	Mon 28/02/22
6		Working on subtitles generation	6 days	Sat 05/03/22	Fri 11/03/22
7		Audio generation through translated Subtitles	7 days	Tue 15/03/22	Wed 23/03/22
8		Audio punching to the Video	10 days	Mon 28/03/22	Fri 08/04/22
9		Document Working	7 days	Tue 12/04/22	Wed 20/04/22
10		Subtitles Edit on website	10 days	Wed 27/04/22	Tue 10/05/22
11		Final Testing	7 days	Fri 13/05/22	Mon 23/05/22
12		Final Documentation	7 days	Thu 26/05/22	Fri 03/06/22

Plagiarism Report

Turnitin Originality Report

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This is to certify that Ritick Maheshwari (1812317) S/O Bhawani Shankar & Jarnail Valasai (1812300) S/O Sadhumal Surendar Valasai had done their project FYP project "Language Translator for Video App" at the computer science Department of SZABIST, Karachi. This final FYP document is checked by their FYP supervisor.

Date: _____
Name of group leader: _____
Signature: _____

Name of supervisor: _____
Designation: _____
Signature: _____