Project Report

Easy Video Maker

Group Number – 07

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Abstract

Easy Video Maker is a offline based application which provide efficient and effective platform to users. In Sri Lanka there is no any other this kind of application to this purpose. Normally this tool is common for all format videos. First user need to download it through the internet. It takes less memory consumption. Number of video editing related tools available today, but they are containing only English language. They do not offer any other languages. In our project Easy Video Maker we implemented all three languages in our country, such as English, Sinhala and Tamil. And it give easiness to do some specific tasks such as cut and merge videos.

Acknowledgement

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Introduction

Introduction

The "Easy Video Maker" is a tool acts as an efficient and effective platform to video editors. There are large number of video cutting and merging tools. Among them "Easy Video Maker" is a specific one because this tool has developed containing all three languages in our country such as English, Sinhala and Tamil. A language which they like can be used by editors.

Major Goals and Objectives

The major goal of this tool is to provide an easy to use application that acts like a personal assistant by providing user with an optionally editing to their needs.

For achieving above major goal we have followed some features. One of those is it will contain easy functionalities for user and it will contain a good user friendly interface.

As an another feature, this tool can be used in the offline mode. As a result of that editors can cut and merge videos without internet connections.

Advantages

- This can be use editors who don't know about the video cutting and merging functionalities. And it will contain all three languages in our country, so anyone can access it without the basic knowledge.

Disadvantages

- This application can be install on windows platform only.

Major Assumption

There are some assumptions we have assumed. They are given below,

- All editors have some kind of knowledge about IT.
- All editors have some knowledge about video format(.mp4, .flv, .mpeg)

Why Easy Video Maker

There are lot of kind of video editing tools in the world. Majority of those tools have lot of features (text editing, photo editing, photo adding, effects...) for editing videos.

If a tool has more features, it will take more storage as well as it will take more time for load.

If someone want to create a video by merging different few videos it is better to use a tool which has merging and cutting features like this tool.

Requirements and Design

This is a one of important phase of the project. Before implement anything identifying the correct user and system requirements is very important and otherwise it is impossible to get the required outcome of the system.

User Requirements

- Editors should be able to choose the language (English, Sinhala, Tamil) edit the video.
- Editor should be able to edit videos with format(.mp4, .flv, .mpeg)

Non Functional Requirements

- User friendliness
- Responsiveness
- Understandability
- Reliability
- Efficiency
- Availability
- Confidentiality
- Maintainability

Design

There are 10 pages in this tool. They have made simple and understandable for editors.

First select the language

Figure 1:Select language

If select English language,

Figure 2:Select cut or merge interface in English

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Figure 3:Video cut interface in English

Figure 4:Video merge interface in English

If select Sinhala language,

Figure 5: Select cut or merge interface in Sinhala

Figure 6: Video cut interface in Sinhala

Figure 7: Video merge interface in Sinhala

If select Tamil language,

Figure 8: Select cut or merge interface in Tamil

Figure 9: Video cut interface in Tamil

Figure 10: Video merge interface in Tamil

Implementation

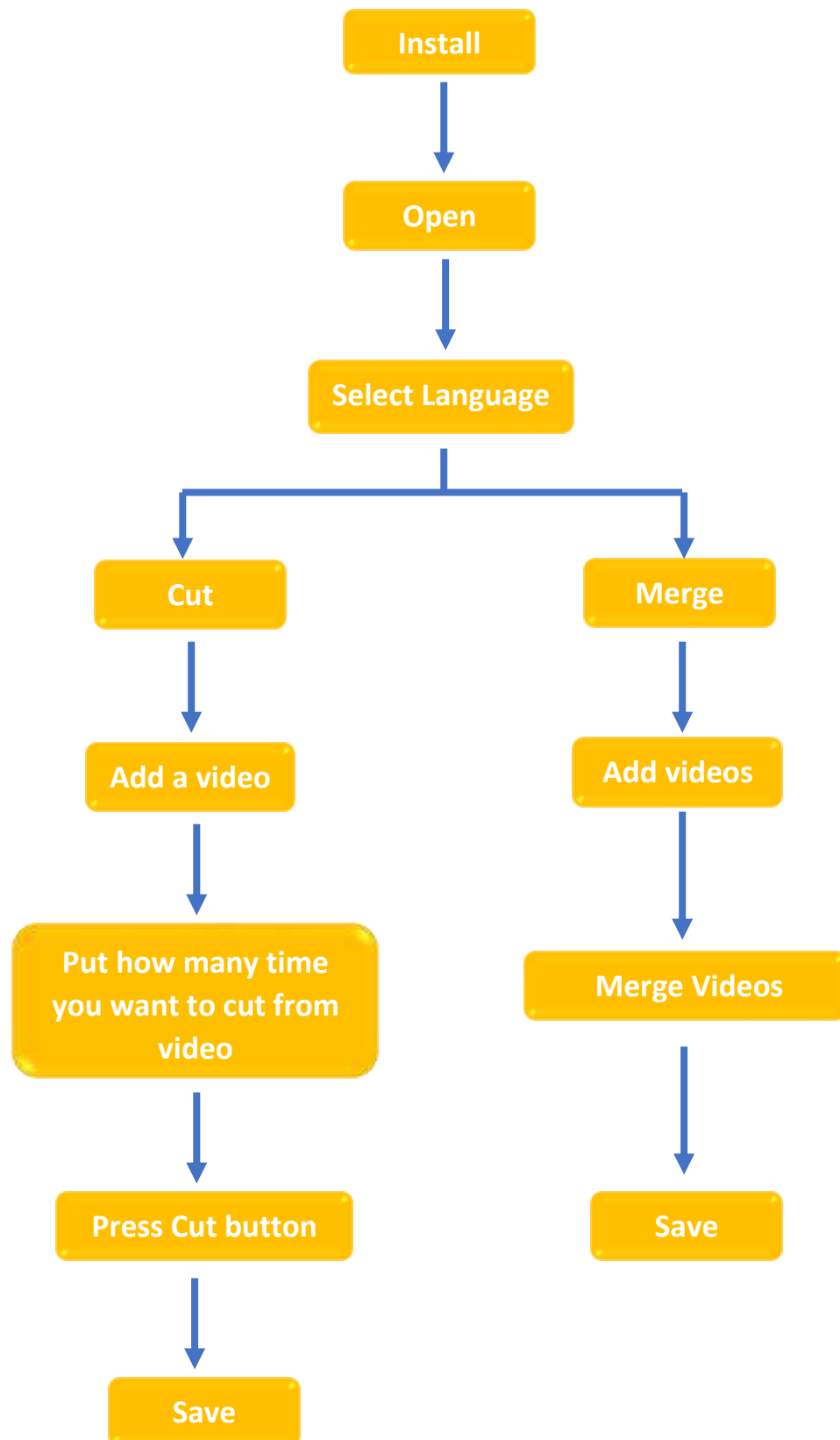## Hardware and Software requirements

- Operating system should be windows 8 and 10.
- At least hard disk capacity should be more than 500MB
- At least SSD should be 128GB
- At least Ram should be 4GB

Technologies

As an integrated development environment (IDE) "Visual Studio 2015" software was used for coding purpose.

For the designing and linking pages, C# was used.

Functionality of the Software

Install

↓

Open

↓

Select Language

Cut

↓

Add a video

↓

Put how many time you want to cut from video

↓

Press Cut button

↓

Save

Merge

↓

Add videos

↓

Merge Videos

↓

Save

First, we have to select the language. After selecting the language, there are two categories

One option is cut and another one is merging IF we select the cut button

After that, we need to add or insert that particular video. After that, we need the time frame which means which time period we want to cut.

Then press the cut button. Finally, you have to press the save button.

If we select Merge, we may have to add two or more videos. After that press the merge button. Finally, we have to click the save option.

Process of the Cut (Figure 3)

There are five main fields which are input file name, start second, how many seconds, Output folder, output File name (Figure 3:). in the input file name field user has to select the video destination using the browse option. After that user have to Input the start second which means where the user wants to start cutting, after that input how many seconds we want which means the time period of our video. then users have to select the destination folder using the browse option. Then type the file name and select type which means what format we want MP4 or whatever. Finally, we have to press the cut button to usefully cut the video.

Process of the Merge (Figure 4)

There are eight main fields which are Add, Remove, Play, Stop, Scale 0.01, Scale 0.03, Output folder, output File name (Figure 4). in the input file name field user have to select the video destination using the browse option. After that user have to Input the video using the add button. If a user no needs any videos easily remove them using the remove button. using the paly button, we can check the preview, using the stop button we can stop the playing video. Using the scale button we can change the length of the video. then users have to select the destination folder using the browse option. Then type the file name and select type which means what format we want MP4 or whatever. Finally, we have to press the save button to successfully merge the video.

Result and Evaluation

Easy Video Maker is offline base tool, when we open the tool we can see there are two buttons. One is cut and another one is merge. When we click cut button we need to input one video and able cut it using the timer. And when we click merge we need to include at least two videos and can able to merge it.

Future Works

- "Easy Video Maker" for windows platforms only. As future works tool can be developed for all other platforms. Then it will be platform independence.
- This tool is for only desktops. We can develop this as well as Mobile phones.