**2.2 Software Requirement Specification**

Any software or an integrated system of hardware and software requires certain conditions of the environment from various perspectives like resources, initial cost, and security. It also needs to fulfill certain requirements of the market segment like performance, safety, scalability, etc. These are being discussed in this section.

**2.2.1 Introduction**

This section describes the solution proposed in terms of the extent of the project and the market segment it basically deals with.

**2.2.1.1 Purpose**

The influence of digital videos on our everyday culture is undeniable. Online video sharing sites boast monthly audience numbers in the millions. Every other person nowadays depends on video resources either for learning or entertainment purpose.

In Educational sector, the importance of video lectures in life of students is undeniable. The coronavirus pandemic has accelerated the transition to online content and off-campus learning. Most of the content was delivered online, enabling students to progress in their studies from the safety of their own home, or even from their home country.

On its face, this shift to online Video lectures is a good thing. Online or recorded lectures require less physical infrastructure and can be reused, reducing time and costs. The material can be accessed remotely, at any time of day — potentially making education accessible to more people. And we’ve all got better at exploiting digital technologies.

But at the same time most the video lectures lack at some areas. Some of the video lectures lack proper labelling or title whereas in some videos proper timestamp of various topics are missing making it difficult for a user to find and switch at required areas of interest. In long videos generally more than one topic is covered but all of the topics are not mentioned explicitly.

Our project covers all these drawbacks and works on video lectures to improve its usage. The main purpose of our project is to enhance the experience and scope of educational video lectures so as to provide ease and benefit to its audience as well as creators. This project will be a boon to many Ed Tech platforms.

Some crucial yet tedious tasks like giving appropriate title to the video, highlighting the main topics covered in videos, providing timestamps and summarizing the audio lectures into text are the main focus areas in the proposed project.

**2.2.1.2 Intended Audience and Reading Suggestions**

The intended audience of our project is:

* **Teachers/ Professors**: The project will help teachers to make their content more efficient by providing all the necessary information and details which will make their videos more descriptive and self-explanatory.
* **Students**: The features added to the video lectures by our project will help students to look for required topic of interest. The appropriate titles, timestamps, explicit mentioning of topics and text summarization of video lectures will save a lot of user’s time.
* **Other Content Creators**: It can also be used by other content creators on Video streaming platforms.

**2.2.1.3 Project Scope**

With loads of video lectures uploading every day on various video streaming and Ed Tech platforms our project will help the creators and its users in every way possible. The videos will be made self-explanatory and the users will find it easy to search and look for required topic without playing each and every videos available and then finding the required section. This will further save time of content creators as they will be able to focus more on content rather than its labelling and detailing task as all of those tasks will be handled by our project.

This project can be further enhanced so as to use in variety of areas of research and development.

**2.2.2 Overall Description**

This segment depicts the highlights and different interfaces of the framework. It additionally manages the kind of correspondence the framework has with other outside elements.

**2.2.2.1 Product Perspective**

Our Project aims to ease and increase the efficiency of video lectures so as to help the teachers and students. The project will help teachers or creators to produce the appropriate tittle according to the content, produce the topic highlights or names explicitly and summarizing the audio lectures into text. This will help students as well as text summarization component can be used to extract hand written notes and find the appropriate and required time stamp.

Thus this project will benefit the video lectures quality and its effective usage by students and teachers will tend to save lot of their crucial time.