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**Statement of problems**

In general we need to convert our files to proper files system in order to complete our task. Some time we may need same file in multiple formats and multiple sizes in case of image. Currently available systems are providing features to convert file system one at a time which is time consuming. Let us take an example, we have a video in mkv format and we want it in audio as well as in avi format so that we can play in normal player in mobile .For this we need two application or we have to repeat process twice to get our desired format. Hence we are proposing this project as a solution for such problem which will be a web based application that will be developed to convert video to audio and image format which mean fast and better method for those who don’t have some particular convertor software and finds it long process to install and convert or transform images.

* 1. **Objectives**

The main objective of this proposed project is

* Conversion of images from one format to another format. Also conversion of video to audio format and reducing image file size.
* Image Manipulation: features such as adjusting grayscales, hue and saturations of a specific range of colours in images, changing quality pixel of an image and transforming images with rotation, resize and crop functions.
  1. **Application**

The proposed project will be a multifunctional media converter.

The proposed system will have user friendly interface through which the proposed project will make the conversion process accessible to users of all experience levels.

* 1. **Scope**

Talking about the scope of the project, it is a web based application which can be widely used in web browsers for fast and easy conversions of video and images, anyone who desired to convert their video and image file format can use this application.

**CHAPTER 2**

**LITERATURE REVIEW**

**2.1 Background**

Literature review is essential for every project to know the background of the project. So, we visited library, many websites related to our project topic for the references, we found out that there has already been developed many similar number of desktop application and web application in real time related to file conversion like Online-Convert.com, Video Codec, Free Make audio Converter, Any Converter etc. Also video to audio conversion like VLC player.

* + 1. **Image Conversion**

A large number of image file formats are available for storing graphical data and consequently, there are a number of issues associated with converting from one image format to another, most notably loss of image detail.Many image formats are native to one specific graphics application and are not offered as an export option in other software, due to proprietary considerations. An example of this is [Adobe Photoshop](https://en.wikipedia.org/wiki/Adobe_Photoshop)'s native PSD-format (Prevention of Significant Deterioration), which cannot be opened in less sophisticated programs for image viewing or editing, such as [Microsoft Paint](https://en.wikipedia.org/wiki/Microsoft_Paint). Most image editing software is capable of importing and exporting in a variety of formats though, and a number of dedicated image converters exist.

**Loss due to compression**

Besides uncompressed formats and lossless compression formats that can usually be interconverted without any loss of detail, there are compressed formats such as [JPEG](https://en.wikipedia.org/wiki/JPEG) which lose detail on nearly every compress.

**Loss due to format change**

Changing image size and [bit depth](https://en.wikipedia.org/wiki/Color_depth) are lossy in all cases of down sampling such as 30-bit to 24-bit or 24-bit to 8-bit [palette](https://en.wikipedia.org/wiki/Palette_(computing))-based images. While increasing bit depth is usually lossless, increasing image size can introduce undesired artifacts.

**2.1.2 File Format**

With the proliferation of new computer systems and applications to run on them a multitude of file formats has also been introduced by manufacturers. Each of these has been designed

the main types of file formats, how and what they are capable of storing, and any methods used for compressing the represented data. This discusses quantitative methods for fairly measuring an image format’s ability to represent certain types of data as accurately as possible

* **JPG**

JPG is a file extension for lossy graphics file. The JPEG file extension is used interchangeably with JPG. JPEG stands for Joint Photographic Experts Group who created the standard. JPG files have 2 sub-formats, JPG/EXIF (often used in digital cameras and photographic equipment), and JPG/JFIF (often used in World Wide Web).

* **PNG**

Portable Network Graphics (PNG) is a raster graphics file format that supports lossless data compression. PNG was created as an improved, non-patented replacement for Graphics Interchange Format (GIF) and is the most used lossless image compression format on the Internet.

* **PDF**

Portable Document Format (PDF) is a file format used to present documents in a manner independent of application software, hardware and operating systems. Each PDF file encapsulates a complete description of a fixed-layout flat document including the texts, fonts, graphics and other information needed to display it.

**CHAPTER 3**

**PROJECT MANAGEMENT**

**3.1 Gantt Chart**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tasks** | **Duration**  **[weeks]** | **July** | | | | **August** | | | | **September** | | | |
| **1st** | **2nd** | **3rd** | **4th** | **1st** | **2nd** | **3rd** | **4th** | **1st** | **2nd** | **3rd** | **4th** |
| **Gathering of requirements** | **2 weeks** |  | | | | | | | | | | | |
| **Research and analysis** | **2 weeks** |  | | | | | | | | | | | |
| **Program design** | **3 weeks** |  | | | | | | | | | | | |
| **Program coding** | **7weeks** |  | | | | | | | | | | | |
| **Debugging and testing** | **2 weeks** |  | | | | | | | | | | | |
| **Documentation** | **1 week** |  | | | | | | | | | | | |

Fig 1: The estimated Gantt Chart of the project

**CHAPTER 4**

**METHODOLOGY**

**4.1 Background**

First of all to complete any project the depth knowledge is very essential for the developers. So we will collect the information which we need for the accomplishment of the project. Then after we will get the idea for our project and we will head towards program design and coding. After the design and coding will be done initially then, debugging and testing will be carried out until we get a clean pass from our-side, then the project will be ready for documentation. This system will be developed in ROR (Ruby On Rails) programming language.

Input File

(Image/Video)

Format Converter

Converted Format

Fig 2: The proposed block diagram of the project

**4.2 Feasibility study**

There are many advantages of the proposed web based application like online conversion of images ,resizing images, cropping images, reducing size of images, video to audio conversion whenever want and from wherever as long as internet supports. Especially fast and better for those who don’t have convertor software and finds long process to install and convert or transform images can use this application via web browsers easily. Thus the proposed software application is hoped to be feasible among wide range of users.

**4.3Algorithm**

1. Start
2. User interface
3. Select desired option

If image

Go to step 4

Else

Go to step 5

Else

Go to step 6

1. Perform following task.

* Convert file format/image manipulation

1. Convert video to audio.
2. Stop

**4.5 Flowchart**

Select desired option

if image

Yes

User Interface

File format Convertor/

Image Manipulation

No

Format converter to audio

Yes

if video

Fig 3: Flowchart of proposed project

**CHAPTER 5**

**EXPECTED OUTPUT**

The proposed web based application is expected to perform following task.

* Format Conversion

Convert image from one format to another and convert video to audio format.

* Crop and Scale

Allow to crop the image and also resizing of the image.

* Adjusting Hue, Saturation, Grayscale
* Compressing the size of an image

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