**Introduction of Multimedia Player (MMP):**

Our Multimedia Player is developed to provide audio, video and image accessing solutions all together. This application is supported to eliminate and reduce the hardships faced by us in managing and keeping multiple media players for various types and extension of media files.This application helps users to enjoy their experience with their media files rather to bother for managing multiple media players. Thus it will help in better utilization of resources.

**Current Scenario**:

Media player is one of the important features of the system. Currently for maximum number of the available media players it does not support all media formats. While playing any video file if we want to check any image we cannot do this unless we switch to any other application. That means many of the current media players have limitations in multiple file type support. In some video players we cannot select desired video aspect ratio and playback speed as well. High quality HD videos face some problem during video streaming.

**Abstract:**

After considering all the above problems, we decided to implement a multimedia player by using java.

1. ***User Interface***

Proposed system will provide improved user interface along with single station for both audio and video. Single station audio and video gives direct audio and video tabs which leads to separate options for both audio and video. The switching of audio to video and vice versa is carried out using just one selection operation like swapping window or clicking button.

1. ***Multiple Format Support***

Proposed system will support multiple formats like 3gp, mp4, avi, flv, mp3, m4a, wav, jpg, png.

**Application Details:**

**Platform:**

Windows/Linux/Mac

**Software development kit:**

Java JDK 1.8.0\_162

**Libraries:**

* VLCJ
* JLAYER
* JAUDIOTAGGER

**Functionalities provided:**

**For Video:**

* Change Aspect Ratio.
* Change Playback Speed.
* Play/Pause
* Mute.
* Fast-forward/Back-forward.

**For Audio:**

* Multiple File Selection.
* Play/Pause.
* Volume Adjustment.
* Mute.
* Next/Previous Song.

**For Image:**

* Multiple File Selection.
* Multiple Format.