**Introduction**

YouTube, the most popular internet short video sharing site to date, which has about 65000 new videos uploaded to the server and 100 million views per day. People can easily obtain and contribute video contents from and to the YouTube server through a friendly interface.

However, YouTube has not offered any download links for the shared videos, users have no way to store their favorite videos on disk and watch them offline. It is more severe for mobile users because YouTube/YouTube (mobile) is a data intensive application which may costly to visit and view videos frequently.

In this project, we introduce a free and online platform which provides the YouTube videos’ downloading and conversion services. All users including non-YouTube and YouTube users can enjoy downloading their favorite videos on their storages space without providing their YouTube accounts. In addition, we extend our service to the brand new mobile OS platform founded by Google – Android. We present a YouTube video streaming player on Android which is facilitated by our platform.

**Methodology**

**Block Diagram**

**Pseudo-streaming**

- **Step 1:** Download a part of video from server
- **Step 2:** Test whether the video can be playable
  - If not => go to 1 to continue download more video content
  - If yes => new a thread to play the video and the main process continue download the content

**Result**

**Procedures of main function:**

1. Enter a valid YouTube video URL and select the expected format
2. Start the downloading and conversion
3. After the process, PC user can download the converted video

**Other functions:**

- **Keyword Search**
  - 1. Enter a keyword
  - 2. Ten keyword related video URLs were shown
- **Download Top Ten Videos**
  - 2 categories of top ten videos are updated from YouTube periodically user can download them by 1 click
    - most viewed
    - most popular
    - recent
- **Check History**
  - Check previously downloaded videos User can download or delete his videos

**Conclusion**

Our services can be extended to support more video web sites and more video formats by minor modifications. In addition, Android can be popular after a few years since it is open-source and developer friendly.