

Python presentation

Application to download videos from websites

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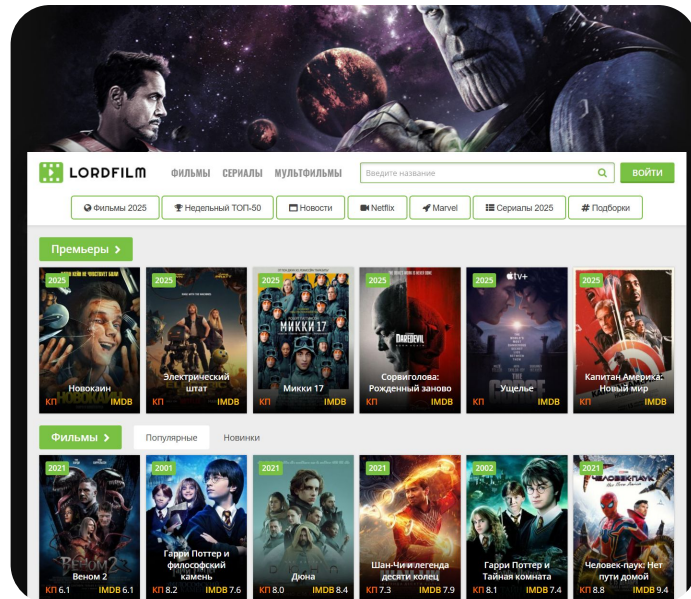
Introduction

Problem description

There are multiple website that host videos with films, documentaries and etc. We would like to download these videos to watch them offline on our laptops when we are travelling. But most of the time these videos are not downloadable, this feature is typically behind some sort of paywall.

Key Features

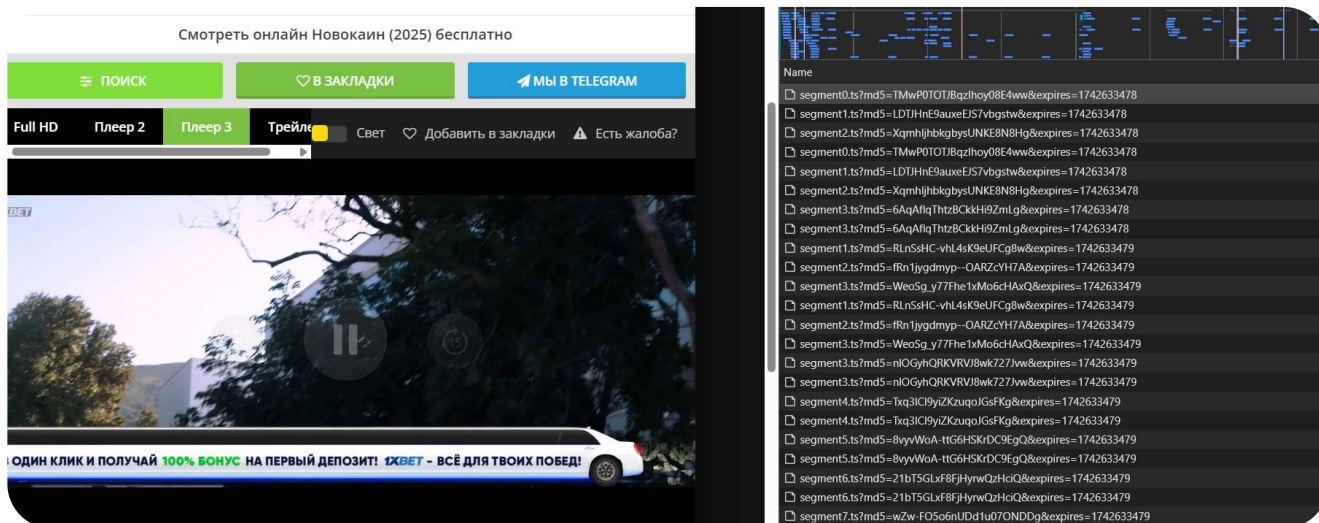
- Paste the link to the app and it will download a video to the local filesystem
- Faster download speeds than simply caching the whole video in video player



Implementation

Description

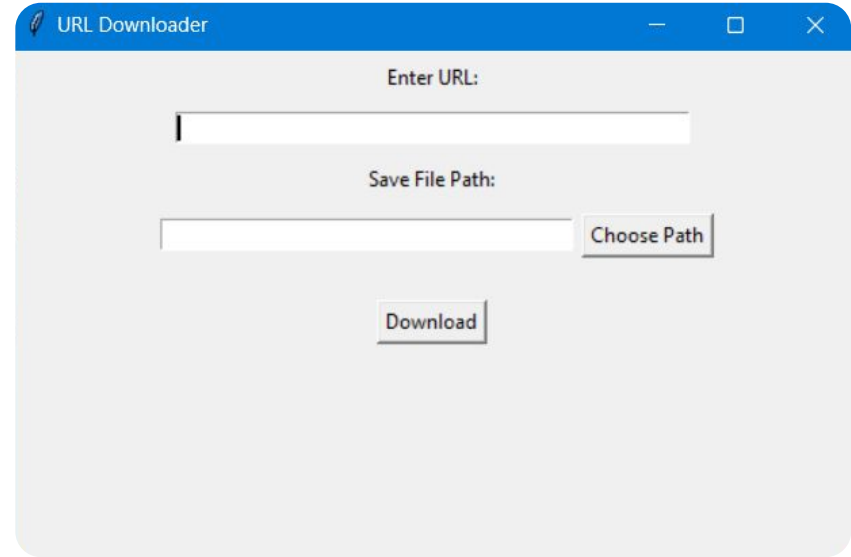
This app is a windows executable. The UI is created using python library **tkinter**. We used **requests** library to query servers endpoints to load chunks of videos. We used **ffmpeg** to join .ts files with small video chunks



Implementation

At this point UI is very simplistic. Enter URL of the video you would like to download and choose path on local filesystem.

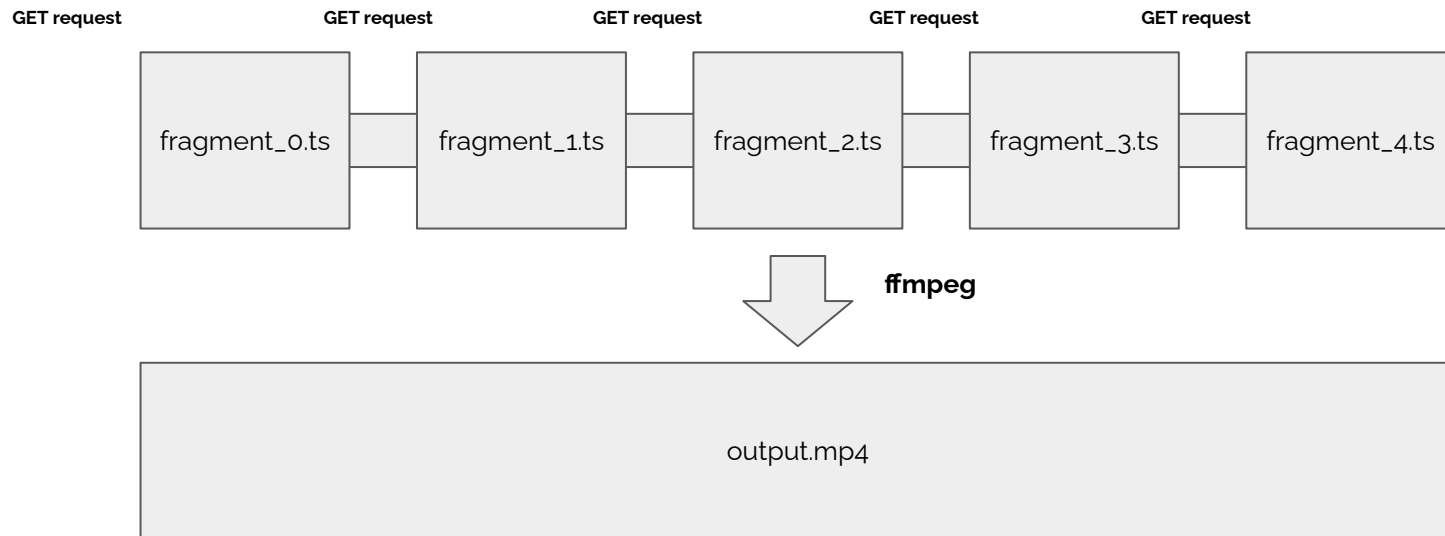
When clicking on Choose Path, it will open file manager and you can choose the folder



Implementation. Downloading chunks of videos

Description

So our application works as follows, we paste the url to the page with the video we want to download, then it collects all of .ts files and merges them into as single mp4 file and saves it to the local filesystem



Impact

Offline access to films

- Now we download videos from website with video players which is very convenient as we can watch these videos anytime we want.
- Store the videos wherever you want
- Simplistic UI

Thank you!

During this project we learned a lot of new things. This was very interesting. Working demo will be in this github repository. Now it is closed, by the deadline we will open it

