DesktopVideoRecorder.Activities

Overview

DesktopVideoRecorder Activity Package for UiPath.
This activity package provides function to record your UiPath workflow action as video.

It's supposed very effective and useful in various scene such as demo for executive or customer, trouble shooting and evidence of testing etc.

Table of Contents

Requirements

UiPath
This activity package requires FFmpeg(https://www.ffmpeg.org/).

How to use

Preparation

Put the nupkg to the package folder of your UiPath.(ex. %USER_PROFILE%¥AppData ¥Local¥UiPath¥App-x.x.x¥Packages) Then, Install DesktopVideoRecorder.Activities via Package Manager of UiPath.
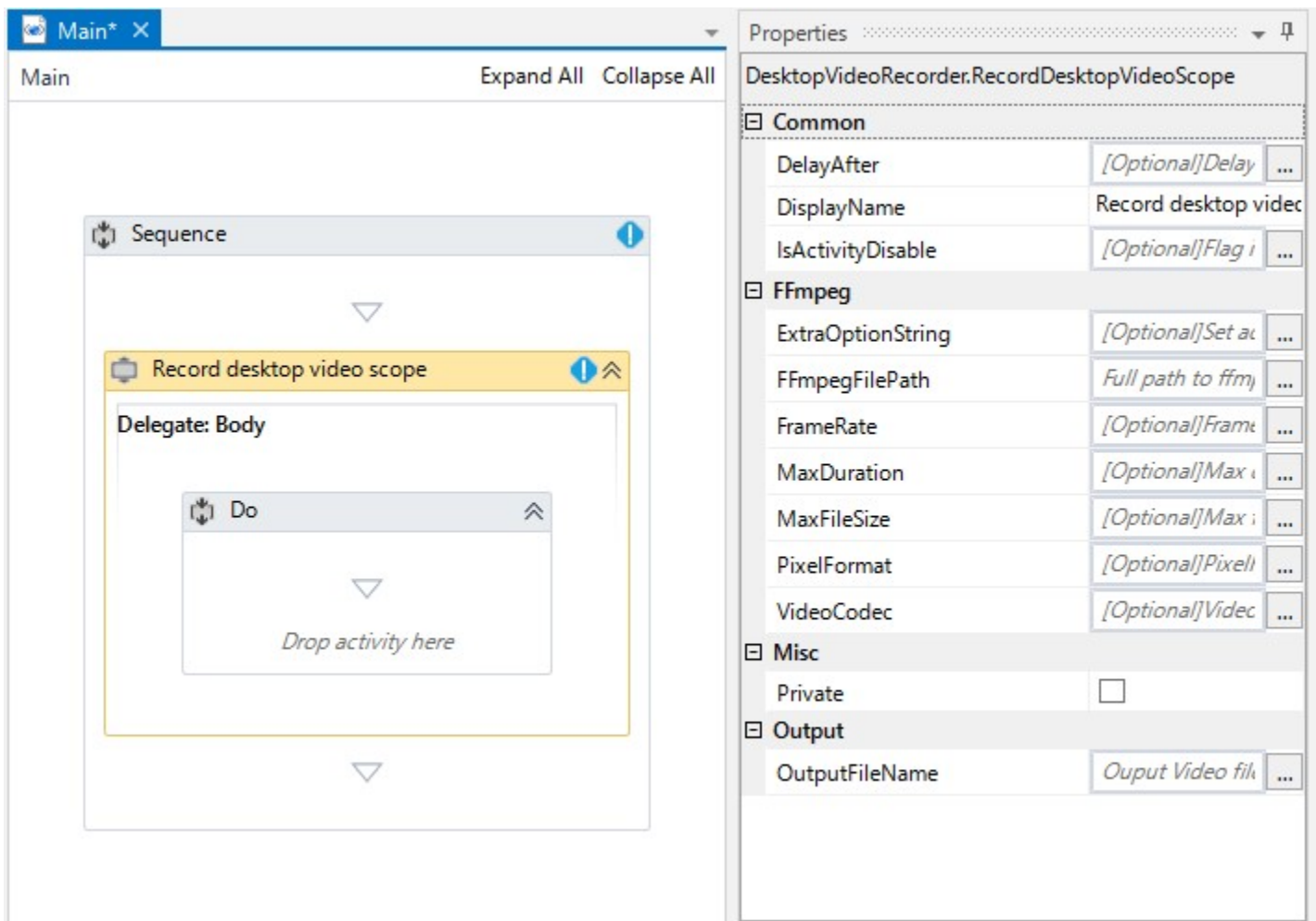You can see some activities in your Activities panel as the following.
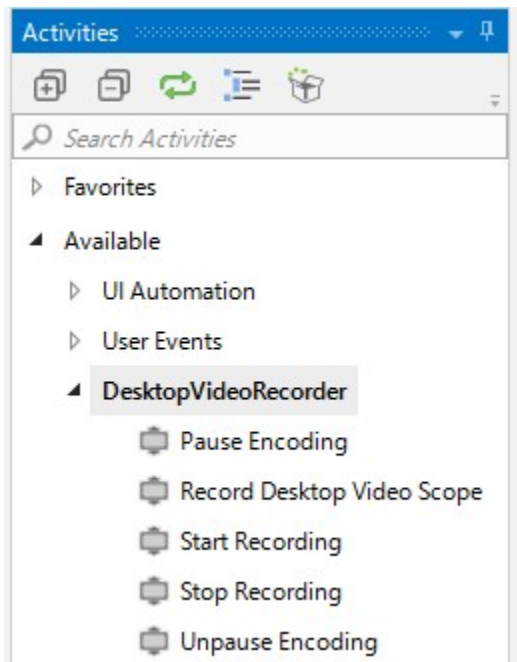
Simple way

There are 2 ways to record desktop video.
Simple way is to use Record Desktop Video Scope Activity.

First, Drag and Drop RecordDesktopVideoScope Activity to your workflow.

Then, you need to fill 2 properties at least.

The first property is FFmpegFilePath in the FFmpeg category. You need to set file path of "ffmpeg.exe". This value should end with "ffmpeg.exe".

The second property is OutputFileName in the Output category. You need to set file name of output video file. This value should end with ".mp4" or ".avi" etc.

You can change other property if necessary. Default values are as follows:

- DelayAfter: 500 (msec)
- DisableActivity: false.
- ExtraOptionString : ""
- FrameRate: 30 (fps)
- MaxDuration: 600 (sec)
- MaxFileSize: 2048 (Mbyte)
- PixelFormat: yuv420p
- VideoCodec: libx264

Please see the detailed information in the Activities chapter.

Finally, put the activities which you want to record to the "Do" scope of this activity.
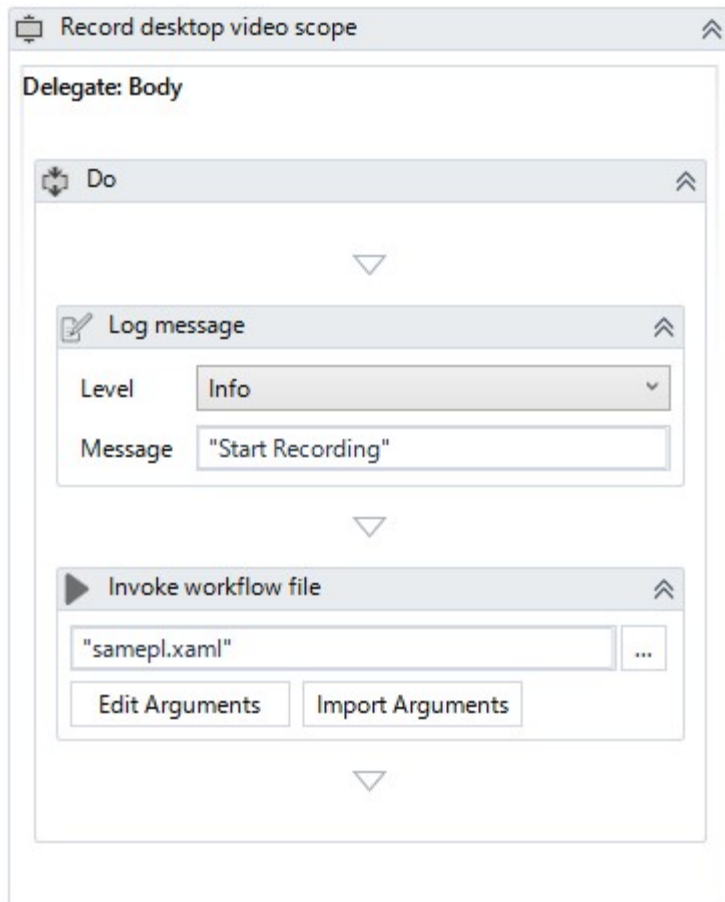
Let's Run your workflow. You'll get video file of your UiPath workflow action in the scope.

Advanced way

The other way is to use "StartRecording Activity" and "StopRecording Activity"
It's often difficult to move activites to the RecordDesktopVideoScope.
These activities solve this matter.

First, put StartRecording Activity at the point of start recording. And fill the properties
FFmpegFilePath,OutputFileName and FFmpegProcess, at least.
Then, put StopRecording Activity at the point of finish recording. And fill the property
FFmpegProcess.
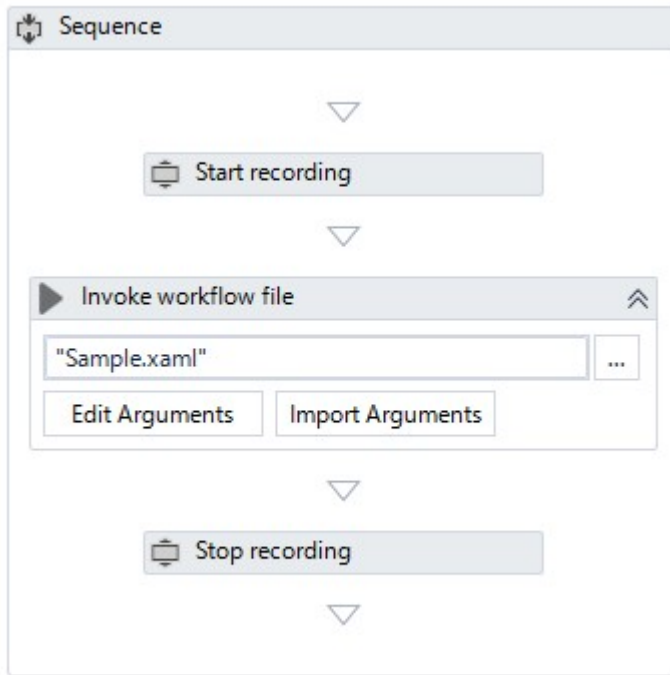
Plase notice that you basically have to call StopRecording before workflow terminates even if exception occurs. Otherwise, recording will be continued until MaxDuration or MaxFileSize.

Thus, it's a good idea to surround activities which you want to record by try-catch activity and put StopRecording Activity to Finnaly section, if possible.
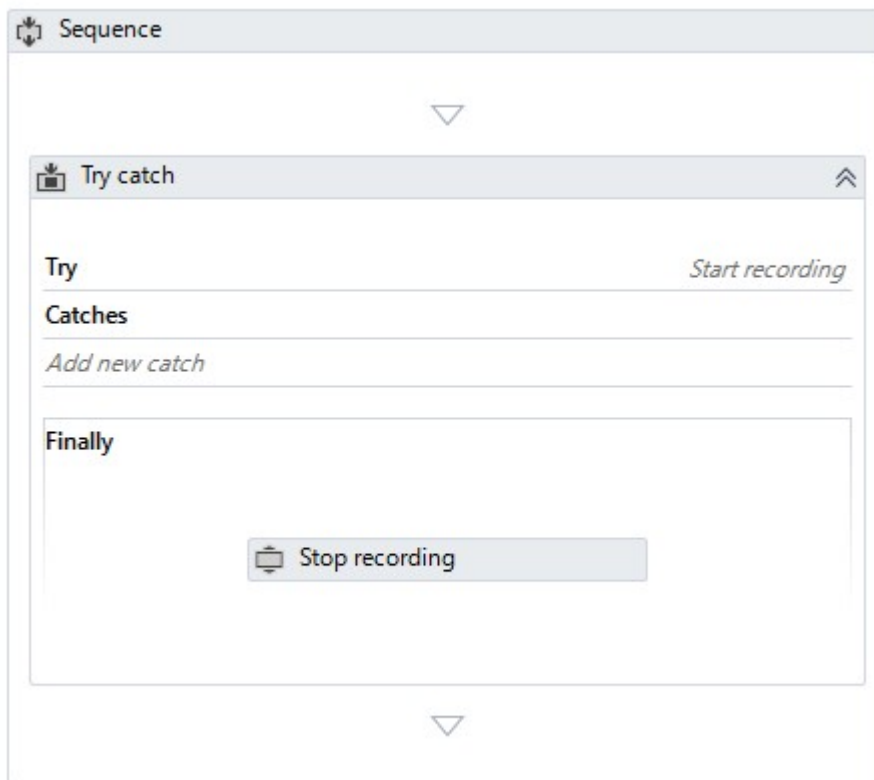
You can use PauseEncoding and UnpauseEncoding but this activity provides not pausing

recording but pausing encoding. The duration won't be shortened.

Finally, run the workflow and you'll get video file of your UiPath workflow action between these activities.

Activities

RecordDesktopVideoScope Avtivity

StartRecording Activity

- Common
  - DelayAfter (Int32)
    [Optional] Delay time after starting ffmpeg. And check if ffmpeg is running then. Default is 500msec.
  - DisableActivity (Boolean)
    [Optional] Flag if this avtivity is disable. Default is false.
- FFmpeg
  - ExtraOptionString (String)
    [Optional]Set additional FFmpeg commandline option if necessary.
  - FFmpegFilePath (String)
    Full path to ffmpeg.exe. This string should end with ffmpeg.exe.
  - FrameRate (Int32)
    [Optional] Framerate (FPS:Frame Per Second) Default is 30fps.
  - MaxDuration (Int32)
    [Optional] Max duration (sec). Default is 600sec = 10min.
  - MaxFileSize (Int64)
    [Optional] Max file size (Mbyte). Deafult is 2048Mbyte=2GByte.
  - PixelFormat (String)
    [Optional] PixelFormat. Default is yuv420p.
  - VideoCodec (String)
    [Optional] VideoCodec. Default is libx264.
  -
- Output
  - FFmpegProcess (System.Diagnotics.Process) (This property is only in Start Recording)
    [Optional]Use this output in StopRecord Activity if you need to stop ffmpeg process.

- OutputFileName (String)

  Ouput Video filename. This string should end with .mp4 or .avi etc.

StopRecording Activity

PauseEncoding Activity

UnpauseEncoding Activity

- FFmpeg
  - FFmpegProcess (System.Diagnotics.Process)

    Process of ffmpeg.exe. Usually, this is from StartRecording Activity

License and Copyright

This activity package is under the MIT license.

Copyright (c) 2018 Yoichi Suetake (swetak.com)