**Case Scenario:** Playing video file

A video file format is a type of file format for storing digital video data on a computer system. Video is almost always stored in compressed form to reduce the file size. Here, the authors (developers) are elaborating the steps involved for executing (running) a video file. This execution involve simultaneous action from CPU and GPU both. CPU takes care for the computational part present in the job (video file). Whereas, GPU takes a good care for processing the video frames. Synchronization between video and audio signals will be done for proper lip sync. I/O controller send audio signals to speakers and monitor receives translated (analog) signals of related image from RAMDAC.

Hyperlinks Referred for understanding the above given scenario and for generating its activity diagram using Rational Software Architect (RSA) tool:

1. <http://computer.howstuffworks.com/sound-card2.htm> [as accessed on 22nd August 2016]
2. <http://dranger.com/ffmpeg/tutorial05.html> [as accessed on 23rd August 2016]
3. <https://en.wikipedia.org/wiki/PCI_Express#External_GPUs> [as accessed on 23rd August 2016]
4. <https://en.wikipedia.org/wiki/Audio_to_video_synchronization> [as accessed on 24th August 2016]