BIRZEIT UNIVERSITY
Faculty of Engineering and Technology
Department of Electrical and Computer Engineering
First Semester 2020/2021
Course Project

In this project you will stream a stored video using HTTP protocol. To complete the project do the following:

1. Download a video from the internet or use any other sources to get a video,

2. Setup a webserver server on the server using docker containers,

3. Create a Hello webpage (blank webpage with Hello text) on the server,

4. Use port forwarding on the server (docker container) and in the ssh command to test the server and view the Hello webpage locally (at localhost or 127.0.0.1),

5. Use ffmpeg to process the downloaded video to generate videos with different qualities,

6. Use ffmpeg to process the downloaded video to generate videos with different resolutions,

7. Use the MP4Box software tool to produce DASH compatible video stream; manifest (.mpd) and video files (.m4s) and store these files in the root directory of the webserver,

8. Create a blank webpage and add the JavaScript player as shown in the lecture slides,

9. Use any internet browser to view the webpage locally and play the video.

Project discussion will be on Monday 11/1/2021 and Wednesday, 13/1/2021. Exact time slots will be decided later. No report is required. Work individually.