

Topic questions (1/2 mark each)

Please include your answers to these topic questions in a separate PDF document. Please make sure that you submit your answers at the same time as your lab project 8.

(Q1) Discuss how Android uses processes to control and track applications.

(Q2) Explain how to use WebView to display an image retrievable from the Web with a given URL (e.g. https://upload.wikimedia.org/wikipedia/commons/6/66/Android_robot.png) in an Android application.

(Q3) Discuss, with the help of some sample code, how to use AsyncTask to perform a task on a Background Thread.

(Q4) A single video source transmits 30 frames per second, each containing 2Mbits of data. Suppose that the average communication delay between the video source and the destination is 10s. In practice, the shortest possible communication delay can be 7s and the longest possible communication delay can be 15s. What would be the minimum size for the delay buffer at the destination to completely eliminate the impact of jitter on continued play of the video content?

(Q5) Both the HTTP and the FTP protocols can be used to transfer files in the Internet. Compare the two protocols by showing the advantages and disadvantages of using each for file transferring.