SRT621 – Winter 2022

Lab #7

Worth: 5% of final grade [5 marks]

Assignment Due: Refer to the deadline on learn.Senecacollege.ca

Submission Instructions:

Answer questions 1 ~ 5 in this word document and re-submit this document to Blackboard.

Please note that you submit your code by sharing your GitHub repository link. Codes/files submitted to blackboard are not going to be corrected.

# Question 1 [0.5 marks]

In your own words explain the differences between frontend and backend development.

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| Frontend development/programming interacts with the user on the client side. Which means that the code is executed through the browser. Backend evelopment means that the programming takes place on the server side. So all of the code executes on the remote server and not on the client. |

# Question 2 [0.5 marks]

In your own words explain node.js event loop.

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| Since javascript is single threaded, in node javascript code is executed one at a time. The node.js event loop ensures that endless loops and bugs won’t occur and break the webpage due to multiple tasks being loaded at the same time. |

# Question 3 [0.5 marks]

Does the Node.js event loop run each task before handling the next? Explain your answer.

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| Yes, the event loop runs a and completes a task before handling the next. This is done to prevent endless loops and breaking application functionality. |

# Question 4 [0.5 marks]

Explain what is a package.json and why a node.js application requires it?

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| Package.json is a JSON file that contains metdata information such as the version of node and the names of all the applications you create. Package.json is required because it contains a list of the numerous packages that are used/required for your application to function. |

# Question 5 [3 marks]

* using “npm init” create a node application that: [2 marks]
  + Has a simple http server which;
  + Listens on port 8989, and;
  + Upon calling the application ([http://localhost:8989](http://localhost:8989/)):
    - returns the current time and date to the user.
* Following the link provided at the end of the slied #16 (and also shown in the class): [1 marks]
  + Create a public repository on GitHub
  + Commit and push your code to the repository
  + Share your repository link here:

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| https://github.com/trybakov/lab7 |