**Identify the top 3 external resources and/or user forums you have used throughout this course and explain why and how you find these resources helpful. Provide the name and url (if applicable) for each.**

I would say that stackoverflow.com (SO) to be my first choice when it comes to troubleshooting any frontend/backend problems. Although there are many reasons, I would like to highlight the top ones. Firstly, the SO is a forum-based platform for programmers. It means that anyone can post his/her code or query for other programmers to review and offer their suggestions. Secondly, it allows for upvoting and downvoting of suggestions. In other words, the originator of the query or discussion could easily compare and pick the preferred option out the posted suggestions, which is usually the one with the highest number of upvotes. Furthermore, SO is one of the most popular question and answer site for professional and enthusiast programmers. So, it is most likely that your query or concern would already be raised and addressed by other programmers. Google is known to show SO pages in its top search result. Finally, with every question you raised or addressed you earn points. These points can be well showcased in your resume to reflect your competitiveness.

The next in line would be MDN web docs (<https://developer.mozilla.org/en-US/>), along with <https://www.w3schools.com/>. I have used these websites interchangeably as they provide official or detailed documentations of both frontend and backend languages (HTML, CSS, JavaScript, jQuery etc.). It is highly recommended to refer to these websites periodically, as they can be considered as guidebooks for these languages for providing with detailed documentation, workable examples, deprecated syntax, and browser compatibility.

One extra resource that I would like to add to my list, which is equally important is youtube.com. Many highly experienced programmers have attracted by youtube.com’s monetization policy and gratuitously share their tutorials over their channel. The quality of the tutorial can be judged by the number of views of the video or the subscribers of channel itself. Also, there is a comment section where you could easily post your queries and ask for further clarification, should you need one.

**Have you used any debugging or troubleshooting applications other than those use in class (i.e. Google DevTools)? Which one(s) are you using and why? Would you recommend them to your peers?**

I have known about Chrome and Mozilla’s dev tool even before joining the class and have been using it extensively for my work. I have been using them since they offer a wide variety of features, which include element selection, debugging error, console log, among others. Similarly, I am also familiar with react plugin for chrome, although I have not used it much. Apart from that, I have used postman as it is the most preferred tool for testing APIs. In addition, I also used JShint plugin for VS Code which helps you detect errors and potential problems in your JavaScript as you code along. I believe these are essential tools that I would gladly recommend to all my peers.

**Now that you have explored ReactJS, why do you think it's getting so popular?**

Although I personally prefer vanilla JavaScript over any frameworks, as I am learning ReactJS I do react JS to make a complex web application simpler and more flexible. It allows me to breakdown complex user interface into components. This means that I do not need to repeat my code where similar features are required. I could simply refer to that component and move on with my web application. Further, it makes data binding and state change of elements manageable by storing them all in a single section. This also, arguably, makes the app run faster as it based on the virtual DOM.