Criteria A: Planning

Defining problem

The client that approached me, Mr. ABC, is a college student that studies in the United States of America. As a college student, he started a travel agency in his densely populated tourist location. He wants to have a system wherein, he can provide good restaurant options to his customers, just by knowing their geographical location. His customers never know what restaurants are the best in their area, therefore he wants a system that can automatically use the geographical location of the user to provide a list of the best restaurants around them. This list of restaurants should be based on various specifications from the user ranging from their preferred cuisine, dish, rating, distance, etc. He requires an organized system for people to find the perfect restaurant while they travel in new locations.

When he brought up this problem, I knew it was perfect for my internal assessment because an IT solution was required for this. This project was shortly approved by my computer science teacher.

In order to get a comprehensive understanding of Mr. ABC's requirements, I had call with him to learn more about the problem. Refer to *Appendix A* to see this interaction.

Rationale to proposed solution

To tackle this problem, java programming with HTML and CSS are the most effective tools. It is possible to create a java web application where Mr. ABC can place a live location along with certain specifications to sort and receive a list of viable restaurants for his customers. With this product being a website, access to an online database of restaurants in particular areas will be useful.

For the client, they will be able to sign-up and login to keep their information specific to them while increasing security. The website will contain a map pop-up to allow for the live location placement by the user. A variety of in-built sorting options (such as the ratings, distance, etc.) will be encoded in this platform to meet the demand of the customers. The list of restaurants and their details will be retrieved from an online Yelp database to allow for more options of restaurants to be available. Lastly, there will be a favoriting mechanism where a logged in user can create their own personalized list of restaurants for themselves. With these functionalities, my client will have an efficient product.

Success criteria

1. Users will be able to sign-up and log in to their accounts.
2. The program will allow the client to pin a location on a map to find restaurants around them.
3. The program will provide list of sorting options for client to choose from.

4. The program will be able to search and access an online database of restaurants to allow for maximum options for the users.
5. A favoriting mechanism will be available for the client.
6. The list of favorited restaurants can be sorted with options such as “ascending”, “descending, etc.
7. The product will have an aesthetically pleasing user interface for client and will be easy for the client to navigate and use.

Word count: 371 words