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This document is reflecting personal challenges, as well as group work contribution and other details about the layer that I contributed to this work which is the HTML and front-end tier of this project.

Challenges

I would like to mention different challenges throughout the work. One of the main problems I faced, was working on the command line which I can classify this partially due to lack of self-training and also lack of confidence in working on the command line. Majority of works was contributing the changes to the GitHub repository which I tried to learn basic commands from the help of Professor Andrew Martin and the provided self-learn tutorials.

Apart from local computer issues mentioned above, there were challenges to find out the best way of linking the CGI script with BL API to present summary list on the webpage and communicating with the user in the HTML form. I enjoyed developing the HTML and designing that page but when it came to CGI I couldn't solve the issue. Debugging the form was another complicated process which I couldn't obtain my full effort on finding out what preventing the server to complete the request and bring up the information.

I preferred to have every code in one Python CGI file instead of writing different functions and importing them into the main CGI file, as what I tried to do was not successful enough in case of importing any class or function from BL Layer.

Another point that I couldn't overcome to solve that was the order of the form elements in the CGI scripts. I tried to follow the same order which was given in the skeleton and what I have experienced in the practicals before but still was some details there hidden from my attention or some tricks that I couldn't recognize it. I tried to learn how to solve the errors related to CGI elements but still couldn't find out the problem with misconfiguration or internal server error in the time of submitting anything on the web.

Self-Experience

In this project, I tried to use all of my capacity toward delivering the best front-end HTML form in case of user-friendliness, easiness of access and other elements as well as designs and colour.

I learnt how to order codes and file in directories to get them working and interacting with each other and being accessible to the user.

I am still trying to learn more about debugging and improving my understanding in writing good CGI scripts and codes to present HTML form entries and improving the codes require for interaction between user end other layers.

Overall in this project, I learned different functions but still have a problem to implement them in case of developing a program but at least this made the opportunity for me to do some actual coding, even though they came to a negative result.

Group-working Experience

This project required a good amount of time and effort to define different functions and classes in different layers so it can come into front-end and present the data and required result associated with the assigned chromosome. In this case, contributing and coworking in the group is an important matter.

Communication between our group members and their effort toward problem-solving in a different area was well enough to progress the whole project. There was always someone available to help to either give an idea in any issue or solving that according to their own knowledge.

There were times that even they were looking for some ways to overcome the issue by exchanging useful links or new codes, although they could have used that time improving their own works.

Also doing this project in the form of group-work gives the opportunity to get access to others' experience and knowledge to progress the way of web developing and programming. Receiving very helpful feedback from other members also was very effective in the case of developing this kind of work.

What could go better

Time is always crucial but with this level of knowledge and programming, I think this would have been better to have some more times to examine different functions or deliver a better level of coding.

Also, it would have been better to get a hand on similar projects to see different thinking path or even other resources to use them as a reference and see how single code can make differences results.