Rational – Back-End-Web-Development

For this web design assignment, I chose to design a fitness tracker web application, which was convenient for me as I know a lot about fitness. Before diving in I had to research different examples of fitness web applications. The first step was to connect to the server. In the tutorials we were told to work with MAMP server. I started working with the MAMP server, but there was a major error which prevented me from using the server. I then got a suggestion from my cousin that there are other open source cross platform servers that I could use, such as XAMPP. I started using this server and it worked perfectly for me. After connecting to the XAMPP database, I went to phpMyAdmin and created a database. For the database process I had write the SQL and add the code to the SQL tab in phpMyAdmin to create the database.

I started by designing the main index page, which is the homepage of all websites. I initially decided to have a horizontal navigation bar on the top of my web application and for this I decided to implement Bootstrap framework in my design, as it gave me a head start with designing the navigation bar. When the user enters the web application they land on the index page. The index page contains the registration form, so when the user enters the web application they must register first to commence ahead. The registration page was one of the hardest sections to design, as I had to design the page and connect it to the phpMyAdmin database. With the registration form, I also had to design the login and logout form for the user. When the user registers himself/herself, they can login with the correct details and that allows them to enter the web application successfully.

Issues with the register, login, and logout page:

I faced one issue when designing the user registration, login, and logout page. After creating the pages, I had issues linking it to the phpMyAdmin database. The way I resolved this issue is that I put the files in the correct directory.

The next step was to design other pages including workout add, workout edit, workout find. With all these pages I had one thing similar, the navigation bar. I created a file called nav.php where I added the head and body code which is similar in every page. I then linked the file to other pages using the <link> tag. I also added images and a small text box below the image to every page ultimately making it look like a real fitness web application.

My navigation bar consists of workout add, workout edit, workout find, and workout delete. With all these pages, the user can easily add, edit, find, and delete their workouts. These pages are connected with the phpMyAdmin (fitness_tracker_app) database. So, when the user enters their workouts, the results go in the database and if they want to delete their

workouts, they can delete them as well. This also removes and updates the results in the database.

Issues with the formatting of html pages:

The main issue that I faced with this web design project was formatting each navigation page. I had to use developers, tool every time an image, table, or text wasn't formatting properly. The way I resolved this issue is that I added 12 grid system from the bootstrap framework and this helped me format the table correctly.