



# Florida International University

## Fall 2024 Senior Design Project

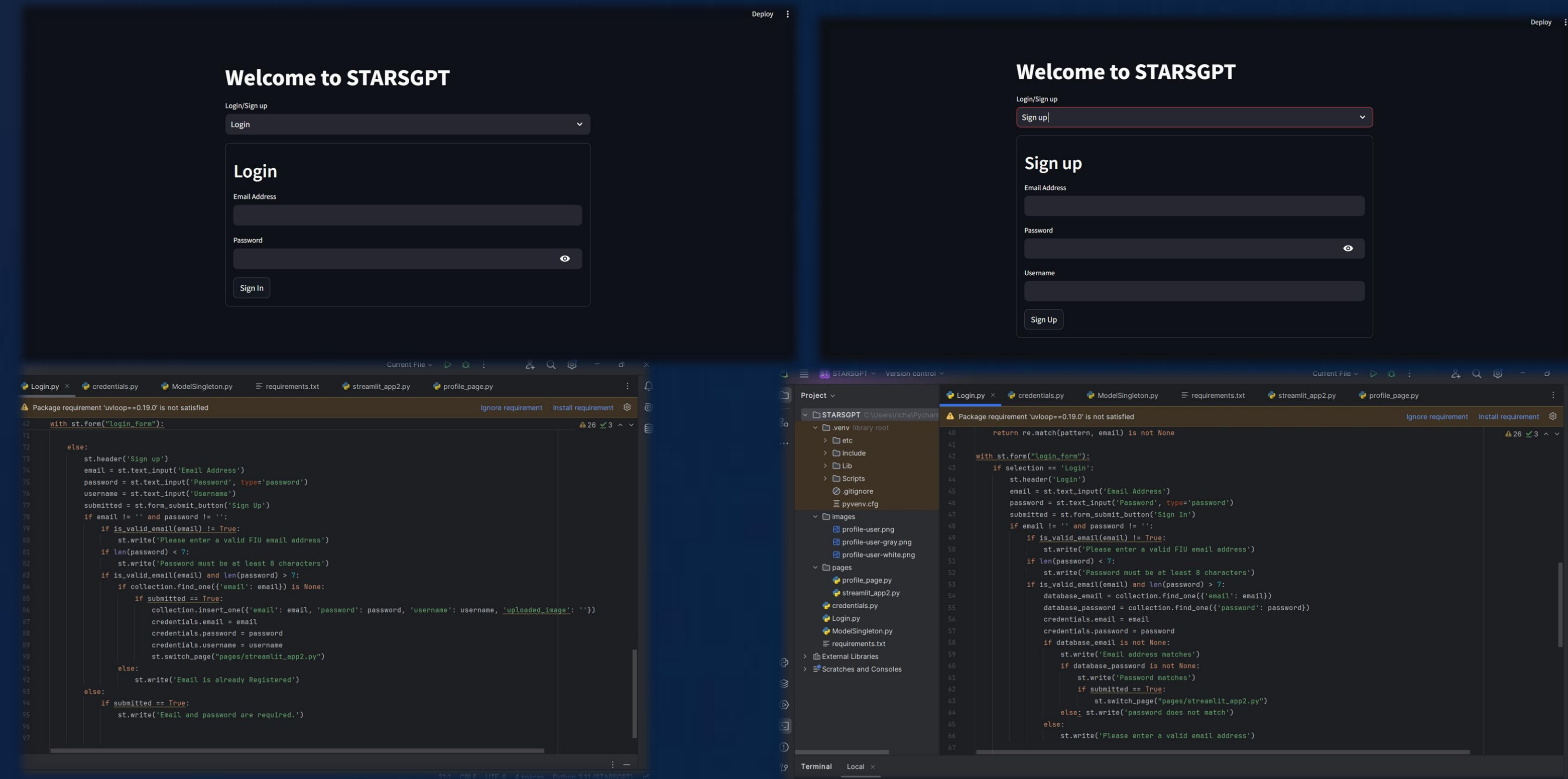
### StarsGPT

Students: Richard Chong

Mentor: Dr. Patricia Mc Dermott-Wells

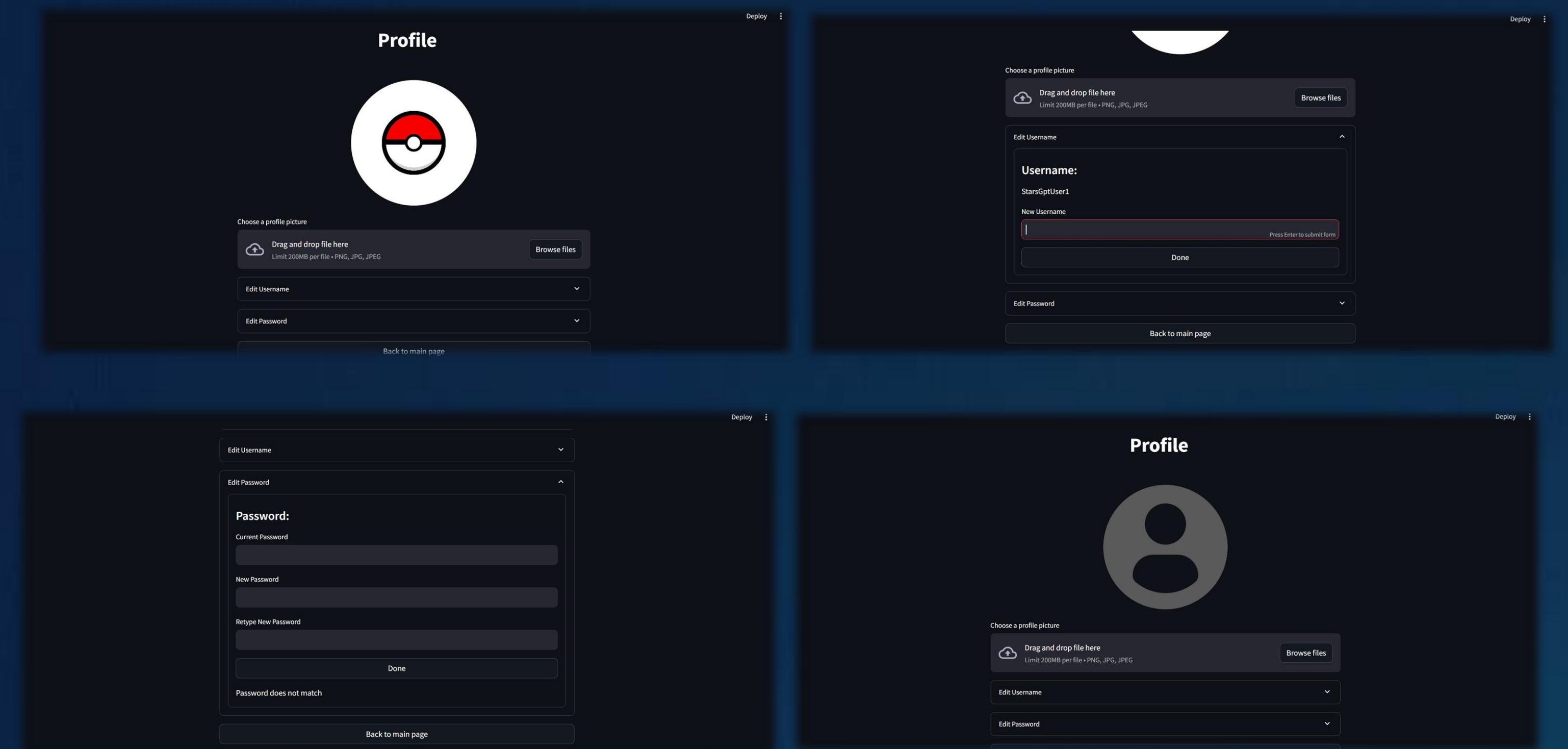
Instructor/Faculty: *Dr. Masoud Sadjadi*, Florida International University

For the project, my main task was to work on the frontend and develop it. At the start we were trying to build upon the old platform that already exist before hand. Due to some complications we ultimately decided to recreate certain aspects of the project. The Front end needed a complete overhaul. So, I ended up recreating the login page, main page, and added a new profile menu for user to be able to access crucial information and update information about their account. The login page was constantly being adjusted, and we progressed through the project. We had to implement a new database to store information. The database we decided to use was MongoDB. In the login page we had a form for returning users and a form for new users to the webapp.



In the home page we had a couple of challenges the first one was. Linking the database to the homepage so it can receive information on the users from the database. After that after that managing the sidebar was a mission as well because there were certain things that I was an able to do. Since one the things I was developing was working the way it wanted I had to find another way to do that task. The profile button was that main issue because it would not let me move to the next page without bugging out until I found a solution. The log out button was super simple to add, and it did not take up too much time. I also added a logo up top, but I did not replace it with the actual logo because I did not have the certified StarsGpt logo. I also struggled with have its username display on the main menu because in certain cases it would not show it.

For the profile page there were a lot of challenges to get through. The hardest part to get through was making the profile picture load every time you go to the profile page. Also, another major challenge is making the profile picture round because in Stream lit there is no preset for it. After that making the upload picture was not that bad, but uploading it had its challenges too as well. After that, a challenge I ended up facing was editing the username because every time tried and upload a new username it wasn't not uploading onto the database. After that I had switched it to a form instead of a button and that fixed the issue. I had a similar issue with the editing the password button and after that having it upload to the database was pretty much instant.



With the database, setting up took a while because I had never worked with MongoDB before. I had to learn how the database worked and how it functioned. I also had to learn how to set up the database on my IDE because it was the first time using it. Also, storing information was difficult at first but after a while of working with MongoDB I started understanding it more. Also, another issue that I had was sharing the database with the others because I did not realize that I had the database on only me using it. It took me a while to figure out the reason that it wasn't working but eventually, I ended up finding it.

