



Software Engineering Internship Entrance Project

Due Date: 15/5/1401-23:59

Overview

You're asked to implement a Rock, Paper, Scissors game with some extra features. The game must be played in terminal and no gui needs to be implemented. Inputs must be taken only with keyboards and outputs only need to be printed in the output terminal. Dockerizing the project is not necessary but a positive point for you.

Main menu

When the program starts the main menu shows up where you can choose to sign up, login or exit the program. For example you can print: 1. Signup 2. Login 3. Scoreboard 4. Exit And if the user inputs 1, you print the signup page and so on.

Users

You can only access gameplay by creating or logging in a user account. Every user information must be saved in a database or file and can be retrieved anytime you start the program (datas must not be lost by terminating the program). Users data contains name, username, password, number of wins, number of losses, win rate.

sign up

For signing up name, username and password is needed and you must handle username redundancy and print proper error message.

Login

You only need to enter username and password to login to your page.

User panel

In the user panel you can start a game with computer which plays with random choices, show your stats (number of wins, number of losses, win rate) or logout (logging out leads you to the main menu).

Game

At first you must ask the user of the score limit of the game (Whenever any player reaches that score is the winner and the game is over). After that is simply a rock, paper, scissor game and you can implement it as long as outputs and gameplay are rational and explicit.

Documentation

You're asked to document your project in english (it is recommended to use the README.md in github). You don't need to explain all your methods or every line of code but only a general representation of your project.

Conclusion

This project is to test your problem-facing and coding ability and there are no limitations as long as you meet the mentioned requirements. So feel free to implement the project as you want but remember your project source code will be examined carefully and is determinative to be clean, efficient and structured. You must represent the project only with a github project link in your own account in reply to your received email.