

CUNY Queens College

CSCI 348

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Project Report
Online Quiz App

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Project Implementation

- Having used TCP protocol, secured server that allows registered participants to take part in the quiz
- Each participants (clients) authenticity and if any participant has already taken part in the quiz is checked by the server.
- Admin does the job of recording the participants detail in the database
- Server checks the for the details of the participants that are registered in the database, and redirects to the quiz taking page, if the details of the participants match
- The participant (client) picks their choice of answer
- The server can take many participants, and each can participate simultaneously
- Each participant (client) gets to participate only once

Requirements

Following libraries are a must have to run this program.

1. Pandas
2. Tinker
3. Socket
4. Subprocess

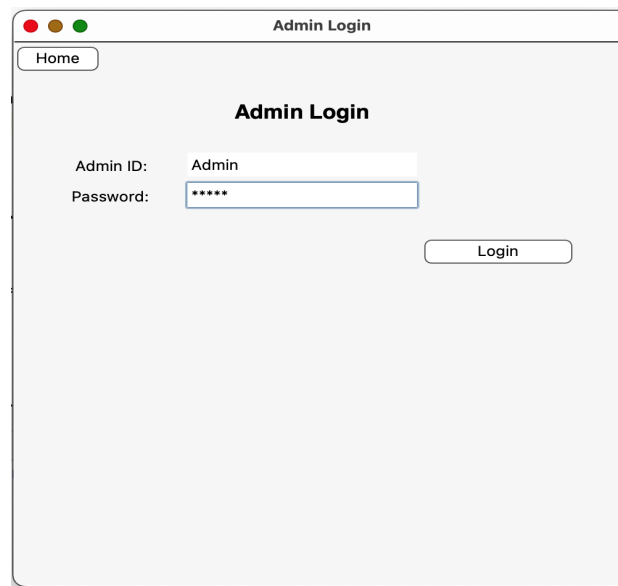
Tools Used

1. Programming language : python
2. Connection: Socket Programming
3. Protocol: TCP
4. OS Calls: python subprocess
5. User Interface: python tkinter
6. Data Storage: Using CSV files
7. Data Updates: python -pandas

How to Login

Admin Login:

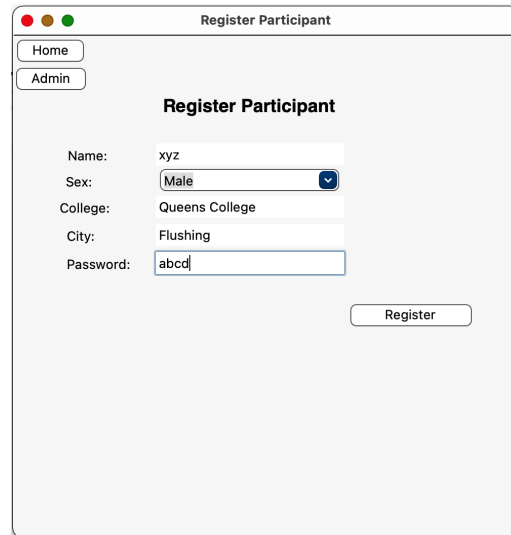
- 1.Admin ID : Admin
- 2.Password : admin



The screenshot shows a window titled "Admin Login" with a standard macOS-style title bar (red, yellow, green buttons). Inside the window, there is a "Home" button in the top-left corner. The main content area is titled "Admin Login" and contains two input fields: "Admin ID:" with the value "Admin" and "Password:" with the value "*****". A "Login" button is located at the bottom right of the input fields.

Register Participants

Each participant registered to participate in the quiz is assigned a unique Id, which they use to login to pick the quiz answer. Our program does not have a limit on how many participants can take part. The participant registration page looks as follows.

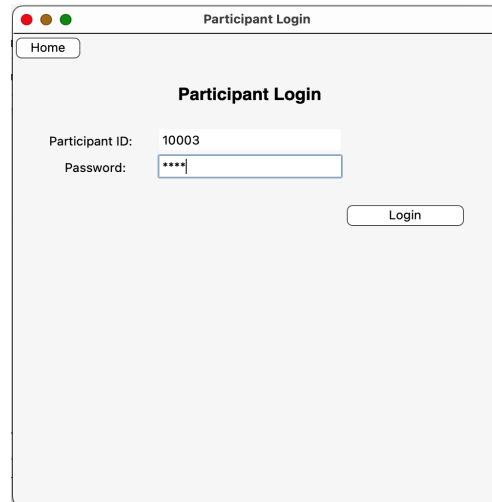


The screenshot shows a web browser window titled "Register Participant". In the top-left corner, there are two buttons: "Home" and "Admin". The main content area has a heading "Register Participant" in bold. Below the heading, there are five form fields: "Name:" with the value "xyz", "Sex:" with a dropdown menu showing "Male", "College:" with the value "Queens College", "City:" with the value "Flushing", and "Password:" with the value "abcd". A "Register" button is located at the bottom right of the form area.

Participant Login

Server should be running for participants to be able to login.

- Participant ID : 10001.....
- Password : abcd



A screenshot of a web application window titled "Participant Login". The window has a standard macOS-style title bar with red, yellow, and green buttons. Below the title bar is a "Home" button. The main content area is titled "Participant Login" and contains two input fields: "Participant ID:" with the value "10003" and "Password:" with four asterisks "****". A "Login" button is positioned to the right of the password field.

After login, pick the option that the participant thinks is correct.



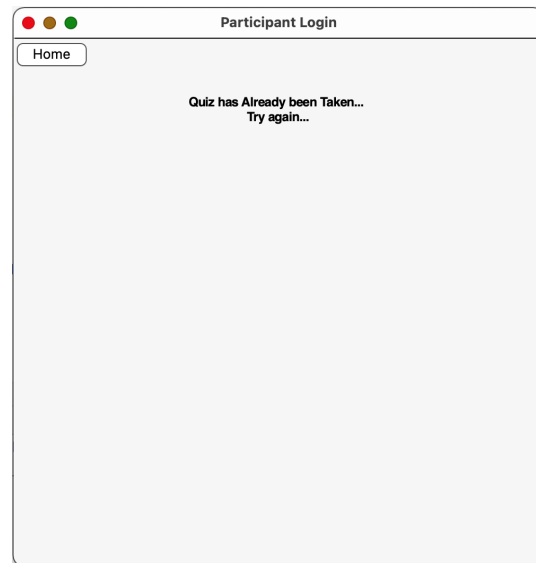
A screenshot of a web application window titled "Which Country Drinks the Most Coffee Per-Capita?". The window has a standard macOS-style title bar with red, yellow, and green buttons. Below the title bar is a "Home" button. The main content area is titled "Which Country Drinks the Most Coffee Per-Capita?" and contains five vertically stacked buttons: "USA", "Finland", "UK", "Poland", and "Sweden".

At this point after making the selection, the confirmation page will appear, stating that the quiz has been successfully taken.



A screenshot of a web application window titled "Which Country Drinks the Most Coffee Per-Capita?". The window has a standard macOS-style title bar with red, yellow, and green buttons. Below the title bar is a "Home" button. The main content area is titled "Quiz Taken Successfully".

If any participant has already taken the quiz, that participant is not allowed to enter and pick the answer.



Checking Result

Go to the home page, repeat admin login, enter the Show Result button and the following page will appear with how many people choose what answer, along with the correct answer.



How to run the program?

1. Open terminal & run python homePage. It will open the Home Page window.
2. Log into Admin and Run Server. This will open a new console window.
3. After that, Server will start to run.
4. Return to the admin page.
5. By pressing Register Participant and putting participant info. Every Participant will be assigned a unique ID. Which is called Participant ID.
6. Note down the unique participant ID
7. Press Home to return to Home Page and press Participant Login.
8. Enter the Login details and It will open a new window which is called quizTakingPage. Here Participant will receive an error message if the participant put incorrect details or has already taken the quiz.
9. Once the participant selects an answer it will say 'Quiz Taken Successfully'.
10. Click on the 'Admin Login' again and log in to see the results. Click on the 'Show Answers' to see how many people have chosen which answers and it also shows the correct answers.
11. Once you return to home you can see a 'New Window'. Use that window to open multiple pages and sign in more clients to take the quiz.

Contributions

Every group member has equally contributed to the project. We have done in-person meetings, Zoom meetings and whatsapp calls. We all shared our thoughts and ideas

and worked together to improve the code and make it run. It would be a 33.33% contribution of each group member.

References:

- YouTube
- Google
- Python Library
- Beej's Guide to Network Programming Using Internet Sockets, Version 2.3.23
November 5, 2005