

Phase 2 Progress Review

Date: Wednesday March 22nd, 2023

As the kickoff for Phase 2 of the LionAuction Project, we will have a progress review of the project on Wednesday 03/22/2023. For the progress review, you should implement UserLogin as specified below so as to demonstrate the login operations.

UserLogin: This is for a registered user to log in the LionAuction system. The system authenticates the user by his/her email and password. Note that the log-in information of users is made available in the provided dataset users.csv and to be stored inside LionAuction for authentication. In this task, you need to populate a table (with the name of your choice) where the securely hashed passwords instead of the plain-text password in the dataset should be stored. Based on the table, the authentication process is implemented via proper interface of your design.

The progress review is evaluated based on the following:

1. **Database population (30%):** Using the dataset provided, you are required to create a table with the necessary primary key and populate the table from the CSV file provided. You may write codes (or use import facility + codes) to implement this step. However, please pay attention that the passwords stored in the database should be securely hashed. You may use any secure hashing algorithm, e.g., SHA256, in your implementation.
2. **UserLogin (30%):** Using the users' log-in information stored in LionAuction (see the Database Population Step above), the system authenticates a user by his/her username and password. Please be sure that the user's password is not displayed on the webpage while being entered. In addition to the scenario of a successful login, you also need to consider the scenarios where a failed login may occur.
3. **Overall (40 %):** You will be asked a few questions about the project. These questions relate to your data population and how your website prototype is designed so far. You may also be asked to show the source codes, documentation, and terminal logs (or scripts/steps for data population) during the progress review.

Directions for the review/demonstration:

1. Make sure you sign up in the Google sheet and be on time for your demo. Rescheduling may be difficult. Overwriting a slot already taken by another class member is considered as an academic violation.
2. You will be given 5 minutes to demonstrate the two tasks. Please ensure you stick to the time limit. **Have everything ready beforehand.**
3. The Tas/LAs will send you a Zoom link later. If you do not receive a Zoom link 24 hours before your demo, reach out to us.
4. During the demo, you need to demonstrate your system and explain how you performed the task. You will share your screen with us and go over the tasks. There is no need to make any PPTs. Due

to the time constraint, **you will need to get your system up running before your demonstration starts.**

5. The grading is based on what you show/submit at the time of review. Due to the time constraint, there is no opportunity for debugging at the time of review or later resubmission. Please test your codes well before hand to make sure they run as intended.
6. For the database population task, we will ask you to show the content of the table. To demonstrate the completion of the database population task, you can use the database viewer in PyCharm or execute "select *" statements to display your tables. Any other tool can be used as long as we can see the contents of your tables.
7. For the data population task, you may use available tools or write your own scripts/codes to do it. You can use Python libraries like Pandas or other database facilities/tools to parse the CSV files and insert values to the table. You should provide (and maintain) one or more SQL scripts used in your data population, so that you can easily regenerate the database or restore the database states. **Please be sure to save your scripts (or document how tools are used), as you may need to do it again** in case that your database got screwed up during your development.
8. For the user login task, we will give you a username and password and check if the login works. Appropriate success/failure messages are sufficient for the progress review. For this progress review, we will be looking out for the correctness. In other words, you do not have to worry about making the webpage beautiful, though it is encouraged that you work on it from now. In the final demonstration, however, we will also evaluate your system based on functionality and UI/UX design.
9. Before the demo, **you are required to submit your code along with a README in the assignment titled "Phase 2 Progress Review"**. You may not present unless the code has been submitted.
10. This assignment is mainly to review your progress and ensure that you are in good shape for the final demo later in the semester. While doing the task correctly is important, we will also look at the effort you have put in and help you correct errors. **Starting early is the best way to ensure you do well on the project.**
11. For any specific issues, please send an email to Fang He.