

COMPSCI 235 S2 2023 Assignment Phase 3

15% of your grade

Due date: 11:59 pm Thursday 21^{tst} September

Total – 35 marks

Objective

The purpose of Assignment phase 3 is to add new features to the Flask web app you built in Assignment phase 2. The e addition of features like user authentication, g l also improve the goal is to make the app's quality by adding m app more interactive and Each team member is re itHub repository to demonstrate their indiv s will be interpreted as a lack of participation l in the functional **IMPORTANT:** For you requirements, it must a **Non-Functional Req** 1. Project Structure and Conformance to e

- Ensure vital documentation, like 'requirements.txt' and 'README.md', is present.
- The application should run by typing 'flask run', from within the virtual environment in a terminal window.
- The tests should run by typing 'python -m pytest -v tests', from within the virtual environment in a terminal window.
- If the application doesn't run properly, the remaining steps will NOT be marked.

2. Use of Blueprints [1 mark]

- Register blueprints to segregate the application's components. For example: home, games, genres, search etc.
- Each blueprint should encapsulate a distinct set of functionalities adhering to the principle of Single Responsibility.

3. User Interface & Design [1 mark]

- Implement CSS for a visually captivating application.
- Utilize Jinja templates to ensure a consistent appearance across pages while minimizing repetitive code.

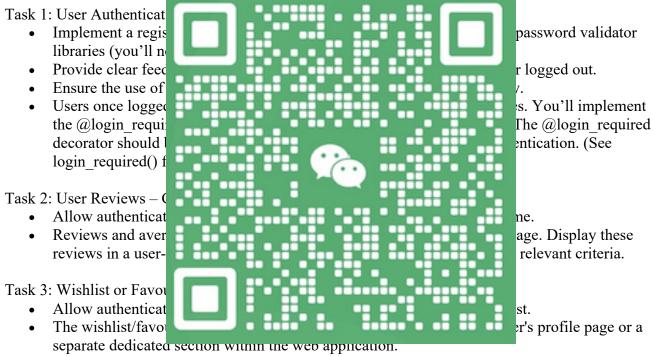
4. Flask Routes and HTTP Protocol [2 marks]

- Clearly define routes/URLs for different functionalities (e.g., /games, /genres, or /search etc.)
- Ensure that the application uses the appropriate HTTP methods, query parameters, response codes etc.

5. Abstract Repository Interface [2 marks]

- This interface should define the necessary methods for fetching, storing, and manipulating data about games.
- For this assignment, you'll be using a memory repository as the data storage mechanism.

Functional Requirements (NEW!!!)



Allow users to remove games from their Wishlist or Favourites list.

Task 4: User Profile Page [5 marks]

- Design and implement a user profile page that is accessible only to authenticated users. This profile page should display an organized history of the user's activities, such as games they've rated, reviewed, or added to their wishlist.
- This task mostly involves creating a new view that collates and displays existing data relevant to each user.
- Implement CSS styling to make the user profile page visually appealing. The design should be consistent with the rest of the application but can have unique elements that make the profile page special.

Task 5: Unit Tests for New Features [3 marks]

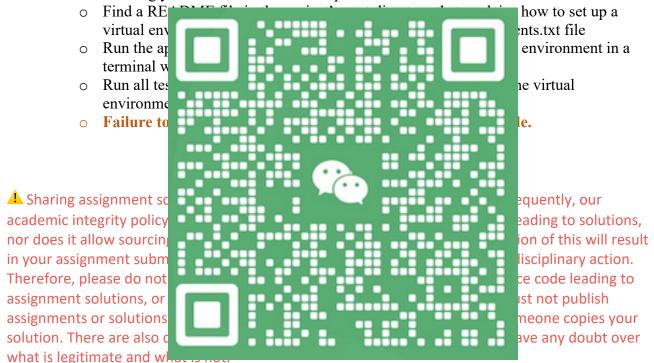
- Extend the unit tests to cover all new functionalities introduced.
- It is important that the tests are written well and provide good coverage. These should be readable with meaningful names, and include comments detailing the test cases.

Task 6: End-to-End Testing [3 marks]

- Implement end-to-end tests to simulate complete user requests, such as registering, logging in, browsing games, adding games to the wishlist, logging out etc.
- It is important that the tests are written well and provide good coverage. These should be readable with meaningful names, and include comments detailing the test cases.

Submission:

- For marking, we will use the latest commit that you have pushed to the GitHub repository before the submission deadline. Please make sure your submission is pushed to the remote GitHub repository, and not just committed to your local version of the repository!
- Each webapp should display the name of the developers (the team members).
- When assessing your work, markers will expect to:



You can refer to online tutorials, generative-AI tools (such as ChatGPT) and online resources. However, please learn from them and implement the solutions yourself based on what you learnt from these sources. You must not copy from these sources.

Don't leave your computers, devices, and belongings unattended — you must secure these at all times to prevent anyone having access to your assignments or solutions. If others are found to have used your solution, you will also face disciplinary action.