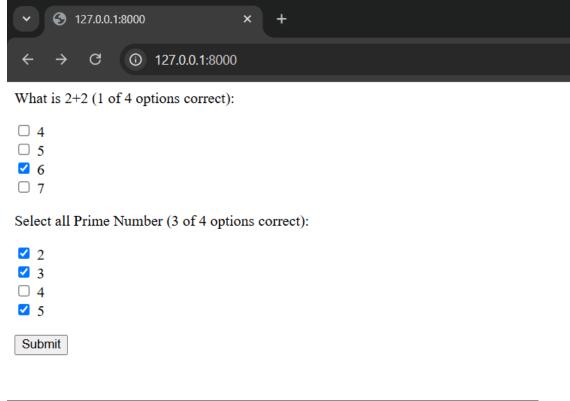
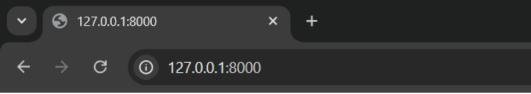
Task 1

1. Task Description:

Build Quiz app in Django which have dynamic no. of options, E.g., few questions have 2 options, few may have 6 options, and must return the no. of right and wrong answers.

2. Task Output Screenshot:





Correct Answers: 3

Incorrect Answers: 1

3. Algorithm Used in Task:

Data Model:

- a) The Question model stores the text of each quiz question.
- b) The Option model stores the possible options for each question, including whether the option is correct.
- c) The foreign key relationship between Question and Option allows dynamic number of options per question.

Form Generation:

- a) The QuizForm dynamically generates form fields based on the questions and options fetched from the database.
- b) For each question, it creates a MultipleChoiceField with the available options as choices.
- c) The form label includes the number of correct options out of the total options for that question.

Form Handling:

- a) In the view, the form is initialized with the questions fetched from the database.
- b) When the form is submitted, the view checks the selected options against the correct options.
- c) It calculates the number of correct and incorrect answers and returns the results.

This algorithm allows for a dynamic number of options per question, while tracking the correctness of the user's selections. It provides a flexible and extensible way to create quizzes with varying difficulty levels.

Note to tester:

The project does not have a front-end to add new questions and options. These must be added manually in the Django admin panel. (http://127.0.0.1:8000/admin/Quiz/)

A Boolean variable is_correct (in Options table) should be selected if the option is correct answer.

The username and password to access the admin panel are:

Username: Admin Password: password

The app awards 1 point for each correct option selected, and 1 point for each incorrect option selected, regardless of how many options are actually correct for that question.