# CMPS 3680 Project 1

# Spring 2024

## Part 1 - Setup

For Project 1 you will use html, php, and css to dynamically generate and grade quizzes. You will use a url parameter ?q to determine which quiz to load from a quizzes folder that will be provided for you.

For this project you will create a project1 folder with the following files:

takeQuiz.php, gradeQuiz.php, quizTools.php, and style.css

Next, run the following commands from the terminal to download and extract the quizzes folder:

wget https://cs.csubak.edu/~paul/cs3680/projects/quizzes.zip
unzip quizzes.zip

### Part 2 - Page Requirements

#### takeQuiz.php

- 1. Import quizTools.php in this file
- 2. Use \$\_GET to get the value of q, remove any special html characters, and save it in \$q
- 3. Pass **\$q** to **getQuiz()**
- 4. Use php to generate a form using the associative array returned by getQuiz()
- 5. Use a foreach loop to iterate through the questions, pass each question to questionHTML()
- 6. The method for the form will be "post" and the action will be "gradeQuiz.php?q=<?= \$q ?>"
- 7. Use html5 attributes to make sure none of the fields are left blank

#### gradeQuiz.php

- 1. Import quizTools.php in this file
- 2. Use \$\_GET to get the value of q, remove any special html characters, and save it in \$q
- 3. Use **\$\_POST** to get the form data, and store it in **\$answers**
- 4. Make sure none of the values in \$answers are blank
- 5. Use php to generate a page showing the graded quiz
- 6. Use a foreach(\$answers as \$key => \$value) to grade each answer:
  - Use getQuestion() to retrieve the specific question from \$quiz['questions'] using \$key
  - Compare the \$value provided by the user with the answer
  - Tell the user if their answer was correct or incorrect
  - Tell the user their answer AND the correct answer

#### quizTools.php

- 1. function getQuiz(\$q)
  - Get the file contents of the correct quiz file based on \$q
     For example "geo" should load geo\_quiz.json
  - Convert the json to an associative array
  - Return the array
- 2. getQuestion(\$id, \$questions)
  - This is a search function that will iterate through \$questions to find the correct \$id
  - When the correct question is found, return only that question's values as an associative array

- 3. questionHTML(\$question)
  - o This function will generate the html for the specific question passed
  - The <label> contents should be the \$question text
  - The <select> name should be the \$question id
  - o For each **\$question** option: The **<option>** value and contents should match

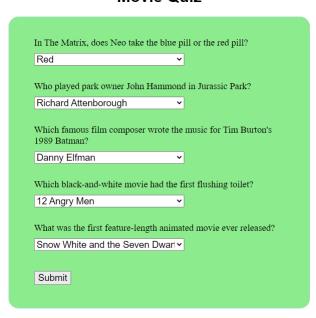
#### style.css

1. There are no specific requirements here, but I expect you to spend a little time making the UI/UX pleasant for the user. Try to make your form well organized and easy to read. Use cohesive colors.

# **Examples**

For takeQuiz.php?q=mov

#### **Movie Quiz**



For gradeQuiz.php?q=mov

#### **Movie Quiz Results**

