

CMPS 3680 Project 1

Spring 2026

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 `$q` to `getQuiz()` and store the result to `$quizData`
4. Use php to generate a form using `$quizData`
 - The method for the form will be "post" and the action will be "gradeQuiz.php?q=<?=\$q ?>"
 - Use a foreach loop to iterate through the questions, pass each question to `questionHTML()`
 - 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)

- 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
- 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

In The Matrix, does Neo take the blue pill or the red pill?

Red

Who played park owner John Hammond in Jurassic Park?

Richard Attenborough

Which famous film composer wrote the music for Tim Burton's 1989 Batman?

Danny Elfman

Which black-and-white movie had the first flushing toilet?

12 Angry Men

What was the first feature-length animated movie ever released?

Snow White and the Seven Dwarfs

Submit

For `gradeQuiz.php?q=mov`

Movie Quiz Results

1: CORRECT!
Your answer is: Red
The correct answer is: Red

2: CORRECT!
Your answer is: Richard Attenborough
The correct answer is: Richard Attenborough

3: CORRECT!
Your answer is: Danny Elfman
The correct answer is: Danny Elfman

4: INCORRECT!
Your answer is: 12 Angry Men
The correct answer is: Psycho

5: CORRECT!
Your answer is: Snow White and the Seven Dwarfs
The correct answer is: Snow White and the Seven Dwarfs