Langara College

**Department of Computing Science and Information Systems**

**CPSC 2030** **– Web Development II**  **Final**

**Fall 2022**

**Total Marks: 100**

**Time Allowed: 120 minutes**

**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Score: \_\_\_\_\_\_\_\_\_\_\_\_ /100**

**Instructions:**

* Download **FinalFiles.zip** from D2L and unzip it.
* You must name the folders, database, tables, table fields, theme name, etc. exactly in the way specified. Failing to do so will lose marks.
* At the end of the test, create a new folder named **Final** and copy the folder **golf** and the folder **finaltheme** into the folder **Final.** Zip the folder **Final** and upload it to D2L.

**Important Notes:**

1. By taking this test, you declare you will not cheat.
2. You may not collaborate with anyone.
3. You may not ask for help from anyone.
4. You may not use any features that are not covered in this course.

**Problem 1: [70 marks] Langara Golf Course Booking System**

**Task 1: [10 marks] Create a database and two tables on the Server**

* Copy the folder **golf** into the folder **htdocs** on the server**.**
* Under phpMyAdmin, create a database named **golf**.
* Under the database golf, create a table named **teetime** with the following fields: an auto-incremented ID, time (Type: VARCHAR), and spots (Type: INT, meaning at maximum how many players can be booked into this tee time slot)
* Insert 4 or more teetime slots into the teetime table
* Under the database golf, create a second table named **user** with the following fields: an auto-incremented ID, email (Type: VARCHAR), and password (Type: VARCHAR)
* Insert 2 or more users into the user table

**Task 2: [10 marks] Display Tee Time Slots in the Form**

* Complete the teetimes() function in the file /templates/functions/template\_functions.php so that the tee time slots are displayed as a radio button group in the form on the page /templates/index.php.
* Make the first time slot initially checked.

**Task 3: [5 marks] Validate Form on the Client-side**

* Add client-side rules to the file /templates/index.php ensure that email address and password are required, and email address has valid format. You don’t need to add your own messages.

**Task 4: [20 marks] Validate Selection and Login on the Server-side**

* Add PHP code to the function validateSelection() in the file validate\_functions.php to check whether the number of spots available is greater than or equal to the number of players. If no, set selectionValid to be false and display an error message.
* Add PHP code to the function validateLogin() in the file validate\_functions.php to check whether the email address matches any email address in the user table on the server and the password matches the password of that user. If no, set the loginValid to be false and display an error message

**Task 5: [15 marks] Display the Booking Information**

* If both selection and login are valid, calculate the values of tax per player and the total for all the players (Assume that the green fee per player is $33.25 and the tax rate is 5%).
* Then display the main section with all the information (keep two decimals for the floating-point numbers) as the screenshot shows.
* Add JavaScript to the close button so that when it is clicked, the main section is hidden.

**Task 6: [10 marks] Add Transition and Animation**

* Add transition effect to the background color of the **Continue** button. When the mouse hovers over, its background color changes from green to light green in 2 seconds
* Animate the background image to move from left to right in 100 seconds and repeat.

**Problem 2: [30 marks] Create a WordPress Site**

Your task is to recreate the application shown in the video **demo.mov** using WordPress, PHP, JavaScript, and CSS. You will create a theme that implements the application and hand this in. Other than basic WordPress and JavaScript, you may not use any external libraries.

The outline of a theme is provided in the starter files called **finaltheme**. All you have to do is to fill in the appropriate code in the appropriate files.

Some starter post content is also provided in the file called **2030-final.xml**.

**Task 1: [5 marks] Create a New WordPress Site**

* Install a new Wordpress to htdocs and rename the folder **wordpress-6.1** to **final**. Create a database and name it **final**. Set the new WordPress title to **2030 Final Exam: Physics Edition**. Delete the default Hello World post. Copy the folder **finaltheme** into the **themes** folder on the server and activate it in the dashboard. Import the content from the file **2030-final.xml.**

**Task 2: [25 marks] Complete the New Theme**

Using techniques studied in this class, implement the application shown in the video **demo.mov**:

* When the homepage is loaded, only the navigation menu and title should be visible.
* When clicking on any navigation item, the corresponding article should be displayed.
* You only need to work on index.php and nav.js