Write a HTML program to design the registration form for a new

customer to the Online Banking System with all the possible

needed controls

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Below is a simple HTML program for designing a registration form for a new customer to an online banking system. This form includes common controls needed for registration such as text input fields, radio buttons, checkboxes, and a submit button.

html

Copy code

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Online Banking Registration</title>

<style>

/\* Basic styling for the form \*/

body {

font-family: Arial, sans-serif;

background-color: #f0f0f0;

padding: 20px;

}

form {

background-color: #fff;

padding: 20px;

border-radius: 5px;

box-shadow: 0 0 10px rgba(0,0,0,0.1);

max-width: 400px;

margin: 0 auto;

}

input[type="text"], input[type="password"], input[type="email"] {

width: 100%;

padding: 10px;

margin: 5px 0;

border: 1px solid #ccc;

border-radius: 3px;

}

input[type="submit"] {

background-color: #4CAF50;

color: white;

padding: 10px 20px;

border: none;

border-radius: 3px;

cursor: pointer;

}

input[type="submit"]:hover {

background-color: #45a049;

}

</style>

</head>

<body>

<form action="#" method="post">

<h2>Online Banking Registration</h2>

<label for="fullname">Full Name:</label>

<input type="text" id="fullname" name="fullname" required>

<label for="email">Email:</label>

<input type="email" id="email" name="email" required>

<label for="username">Username:</label>

<input type="text" id="username" name="username" required>

<label for="password">Password:</label>

<input type="password" id="password" name="password" required>

<label for="confirm\_password">Confirm Password:</label>

<input type="password" id="confirm\_password" name="confirm\_password" required>

<label for="gender">Gender:</label><br>

<input type="radio" id="male" name="gender" value="male">

<label for="male">Male</label><br>

<input type="radio" id="female" name="gender" value="female">

<label for="female">Female</label><br>

<label for="newsletter">Subscribe to Newsletter:</label>

<input type="checkbox" id="newsletter" name="newsletter">

<input type="submit" value="Register">

</form>

</body>

</html>

This HTML code creates a form with fields for the user to input their full name, email, username, password, confirm password, select their gender, and subscribe to a newsletter. The form also includes a submit button for registration.

User

i. Write a program using HTML and Java Script to develop a

feedback form. The form must include necessary elements

enabling the visitor of the Website to give his/her valuable

feedback. It must convey thanks to the user when he/she clicks the

submit button (onsubmit event). It must provide help informations

when the visitor goes through each element in the form (onfocus,

on blur).

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Below is an example of a feedback form using HTML and JavaScript. The form includes text input fields for the visitor's name and email, a textarea for their feedback message, and a submit button. JavaScript is used to handle the form submission and provide help information when the user interacts with each form element.

html

Copy code

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Feedback Form</title>

<style>

/\* Basic styling for the form \*/

body {

font-family: Arial, sans-serif;

background-color: #f0f0f0;

padding: 20px;

}

form {

background-color: #fff;

padding: 20px;

border-radius: 5px;

box-shadow: 0 0 10px rgba(0,0,0,0.1);

max-width: 400px;

margin: 0 auto;

}

input[type="text"], textarea {

width: 100%;

padding: 10px;

margin: 5px 0;

border: 1px solid #ccc;

border-radius: 3px;

}

textarea {

resize: vertical;

}

input[type="submit"] {

background-color: #4CAF50;

color: white;

padding: 10px 20px;

border: none;

border-radius: 3px;

cursor: pointer;

}

input[type="submit"]:hover {

background-color: #45a049;

}

</style>

</head>

<body>

<form id="feedbackForm" onsubmit="submitFeedback(event)">

<h2>Feedback Form</h2>

<label for="name">Name:</label>

<input type="text" id="name" name="name" required onfocus="showHelp('nameHelp')" onblur="hideHelp('nameHelp')">

<div id="nameHelp" style="display: none;">Please enter your name.</div>

<label for="email">Email:</label>

<input type="text" id="email" name="email" required onfocus="showHelp('emailHelp')" onblur="hideHelp('emailHelp')">

<div id="emailHelp" style="display: none;">Please enter a valid email address.</div>

<label for="feedback">Feedback:</label>

<textarea id="feedback" name="feedback" rows="4" required onfocus="showHelp('feedbackHelp')" onblur="hideHelp('feedbackHelp')"></textarea>

<div id="feedbackHelp" style="display: none;">Please provide your feedback.</div>

<input type="submit" value="Submit">

</form>

<script>

function showHelp(elementId) {

document.getElementById(elementId).style.display = "block";

}

function hideHelp(elementId) {

document.getElementById(elementId).style.display = "none";

}

function submitFeedback(event) {

event.preventDefault(); // Prevent form submission

// You can perform additional actions here, such as sending the feedback to a server

alert("Thank you for your feedback!");

}

</script>

</body>

</html>

In this form:

Each input field and textarea has onfocus and onblur attributes to show and hide help information.

The submitFeedback function is called when the form is submitted. It prevents the default form submission behavior and shows an alert message thanking the user for their feedback.

User

Write a script to simulate the rolling of two dice. The script

should use Math.random to roll the first die and again to roll the

second die. The sum of the two values should then be calculated.

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Note: Since each die can show an integer value from 1 to 6, the

sum of the values will vary from 2 to 12, with 7 being the most

frequent sum and 2 and 12 the least frequent sums. Your program

should roll the dice 1,000 times. Use a one-dimensional array to

tally the number of times each possible sum appears. Display the

results in a HTML table

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Below is a JavaScript code that simulates the rolling of two dice 1000 times and tallies the frequency of each possible sum using a one-dimensional array. The results are then displayed in an HTML table.

html

Copy code

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Dice Rolling Simulation</title>

<style>

/\* Basic styling for the table \*/

body {

font-family: Arial, sans-serif;

background-color: #f0f0f0;

padding: 20px;

}

table {

border-collapse: collapse;

width: 100%;

}

th, td {

border: 1px solid #ddd;

padding: 8px;

text-align: center;

}

th {

background-color: #f2f2f2;

}

</style>

</head>

<body>

<h2>Dice Rolling Simulation</h2>

<table>

<tr>

<th>Sum of Dice</th>

<th>Frequency</th>

</tr>

<tbody id="resultsTable">

</tbody>

</table>

<script>

// Initialize an array to store the frequency of each possible sum

const sumsFrequency = new Array(13).fill(0);

// Simulate rolling two dice 1000 times

for (let i = 0; i < 1000; i++) {

const die1 = Math.floor(Math.random() \* 6) + 1; // Roll first die

const die2 = Math.floor(Math.random() \* 6) + 1; // Roll second die

const sum = die1 + die2; // Calculate the sum

sumsFrequency[sum]++; // Increment the frequency for this sum

}

// Display the results in the HTML table

const resultsTable = document.getElementById('resultsTable');

for (let i = 2; i <= 12; i++) {

const row = document.createElement('tr');

const sumCell = document.createElement('td');

sumCell.textContent = i;

row.appendChild(sumCell);

const frequencyCell = document.createElement('td');

frequencyCell.textContent = sumsFrequency[i];

row.appendChild(frequencyCell);

resultsTable.appendChild(row);

}

</script>

</body>

</html>

This code will generate a table displaying the frequency of each possible sum of two dice rolls after simulating the process 1000 times. Each row of the table corresponds to a sum (from 2 to 12) and shows the frequency of occurrence for that sum.

User

. Write a script to calculate the Pay of the Employees in an

organization. The client makes an invocation for getting the

calculated pay from the browser by passing the Employee ID and

grade. Display appropriate results.

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To create a script that calculates the pay of employees in an organization based on their grade and employee ID, you can use JavaScript. Below is an example of how you can implement this:

html

Copy code

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Employee Pay Calculator</title>

<script>

// Define a function to calculate pay based on grade

function calculatePay(employeeID, grade) {

let pay = 0;

// Perform calculations based on grade

switch (grade) {

case 'A':

pay = 50000;

break;

case 'B':

pay = 40000;

break;

case 'C':

pay = 30000;

break;

default:

pay = 0; // Default pay if grade is not recognized

}

// Display the result

document.getElementById('result').innerHTML = "Employee ID: " + employeeID + "<br>Grade: " + grade + "<br>Pay: $" + pay;

}

</script>

</head>

<body>

<h2>Employee Pay Calculator</h2>

<p>Enter Employee ID and Grade:</p>

<form onsubmit="event.preventDefault(); calculatePay(this.employeeID.value, this.grade.value)">

<label for="employeeID">Employee ID:</label>

<input type="text" id="employeeID" name="employeeID" required><br><br>

<label for="grade">Grade:</label>

<select id="grade" name="grade">

<option value="A">A</option>

<option value="B">B</option>

<option value="C">C</option>

</select><br><br>

<input type="submit" value="Calculate Pay">

</form>

<div id="result"></div>

</body>

</html>

In this script:

The calculatePay function takes two parameters: employeeID and grade.

Inside the function, a switch statement is used to determine the pay based on the grade provided.

The result is displayed in the result div on the web page, showing the employee ID, grade, and calculated pay.

The form allows the user to input the employee ID and select the grade, and when submitted, it calls the calculatePay function passing the input values.

This script allows the client to calculate the pay of employees in the organization by providing the employee ID and grade through the browser.

User

Write a Node.js program that connects to a MongoDB database

and retrieves all records from a "products" collection. The

program should log the records to the console and sort them by

price in descending order.

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To achieve this, you'll need to have Node.js installed along with the mongodb npm package for interacting with MongoDB. Ensure you have a MongoDB database set up and running locally or on a server accessible from your Node.js environment.

First, install the mongodb package using npm:

bash

Copy code

npm install mongodb

Then, you can create a Node.js program (let's name it retrieveProducts.js) with the following code:

javascript

Copy code

const { MongoClient } = require('mongodb');

// Connection URI

const uri = 'mongodb://localhost:27017'; // Update this URI with your MongoDB connection string

// Database Name

const dbName = 'your\_database\_name'; // Replace 'your\_database\_name' with your actual database name

// Collection Name

const collectionName = 'products'; // Replace 'products' with your actual collection name

async function retrieveProducts() {

// Create a new MongoClient

const client = new MongoClient(uri);

try {

// Connect to the MongoDB server

await client.connect();

// Connect to the specific database

const database = client.db(dbName);

// Get the collection

const collection = database.collection(collectionName);

// Retrieve all records from the collection and sort by price in descending order

const products = await collection.find().sort({ price: -1 }).toArray();

// Log the records to the console

console.log('Products (sorted by price in descending order):');

console.log(products);

} catch (error) {

console.error('Error retrieving products:', error);

} finally {

// Close the connection

await client.close();

}

}

// Call the retrieveProducts function

retrieveProducts();

Make sure to replace 'mongodb://localhost:27017' with your actual MongoDB connection URI, 'your\_database\_name' with your database name, and 'products' with your collection name.

To run the script, execute the following command in your terminal:

bash

Copy code

node retrieveProducts.js

This Node.js program connects to your MongoDB database, retrieves all records from the "products" collection, sorts them by price in descending order, and logs the sorted records to the console.

User

sample code on tabels in html only

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Certainly! Below is a sample HTML code for creating a simple table:

html

Copy code

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Sample Table</title>

<style>

/\* Basic styling for the table \*/

table {

border-collapse: collapse;

width: 100%;

}

th, td {

border: 1px solid #ddd;

padding: 8px;

text-align: left;

}

th {

background-color: #f2f2f2;

}

</style>

</head>

<body>

<h2>Sample Table</h2>

<table>

<thead>

<tr>

<th>ID</th>

<th>Name</th>

<th>Age</th>

</tr>

</thead>

<tbody>

<tr>

<td>1</td>

<td>John Doe</td>

<td>30</td>

</tr>

<tr>

<td>2</td>

<td>Jane Smith</td>

<td>25</td>

</tr>

<tr>

<td>3</td>

<td>Michael Johnson</td>

<td>40</td>

</tr>

</tbody>

</table>

</body>

</html>

This HTML code creates a table with three columns (ID, Name, Age) and three rows of data. The table has basic styling to define borders, padding, and alignment for better readability.