**Software Testing and Quality Assurance**

**2CSDE80**

**Roll No.: 21BCE325**

**PRACTICAL 8: To demonstrate regression-based testing using Watir tool.**

**Index.html**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Radio and Checkbox Test</title>

    <link rel="stylesheet" href="styles.css">

</head>

<body>

    <h1>Radio Buttons and Checkboxes</h1>

    <form action="#">

        <fieldset>

            <legend>Choose a color:</legend>

            <label>

                <input type="radio" name="color" value="red"> Red

            </label>

            <label>

                <input type="radio" name="color" value="green"> Green

            </label>

            <label>

                <input type="radio" name="color" value="blue"> Blue

            </label>

        </fieldset>

        <fieldset>

            <legend>Select your hobbies:</legend>

            <label>

                <input type="checkbox" name="hobbies" value="reading"> Reading

            </label>

            <label>

                <input type="checkbox" name="hobbies" value="sports"> Sports

            </label>

            <label>

                <input type="checkbox" name="hobbies" value="traveling"> Traveling

            </label>

        </fieldset>

        <button type="submit">Submit</button>

    </form>

</body>

</html>

**Styles.css:**

body {

    font-family: Arial, sans-serif;

    background-color: #f4f4f4;

    margin: 20px;

    padding: 20px;

}

h1 {

    color: #333;

}

fieldset {

    border: 1px solid #ccc;

    padding: 15px;

    margin-bottom: 20px;

}

legend {

    font-weight: bold;

}

label {

    display: block;

    margin: 5px 0;

}

button {

    background-color: #4CAF50;

    color: white;

    border: none;

    padding: 10px 20px;

    cursor: pointer;

}

button:hover {

    background-color: #45a049;

}

**Test.rb water file:**

require 'watir'

# Initialize browser

browser = Watir::Browser.new :chrome

# Open the HTML file

browser.goto 'file:///C:/Users/VRAJ/OneDrive/Desktop/watir/index.html'

# Wait for the page to load

sleep 2

# Select a radio button (Red) and ensure it's set

if browser.radio(name: 'color', value: 'red').exists?

  browser.radio(name: 'color', value: 'red').set

else

  puts "Radio button 'Red' not found!"

end

# Wait for 50 seconds

sleep 50

# Check both checkboxes (Reading and Traveling) and ensure they're set

if browser.checkbox(name: 'hobbies', value: 'reading').exists?

  browser.checkbox(name: 'hobbies', value: 'reading').set

else

  puts "Checkbox 'Reading' not found!"

end

if browser.checkbox(name: 'hobbies', value: 'traveling').exists?

  browser.checkbox(name: 'hobbies', value: 'traveling').set

else

  puts "Checkbox 'Traveling' not found!"

end

# Wait for 50 seconds

sleep 50

# Click the submit button if it exists

if browser.button(type: 'submit').exists?

  browser.button(type: 'submit').click

else

  puts "Submit button not found!"

end

# Sleep for 5 seconds to observe the result before closing the browser

sleep 5

# Close the browser

browser.close

