

CSE3002 – Internet And Web Programming

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20BCI0258

Digital Assignment -3

Q1 Develop a Password Strength Meter application using HTML, CSS, and JS.

index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link rel="stylesheet" href="style.css" />
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquery.min.js"></script>
    <title>Password Strength</title>
  </head>
  <body>
    <div class="container">
      <div class="input-box" >
        <input
          type="password"
          class="password"
          placeholder="Enter Password..."
        />
        <p class="message" id="message" >Password is <span id="strength"></span></p>
      </div>
```

```
</div>
<script src="script.js"></script>
</body>
<script>
$(document).ready(function(){
    $("p").mouseover(function(){
        $("p").css("background-color", "lightgreen");
    });
    $("p").mouseout(function(){
        $("p").css("background-color", "orange");
    });
});
</script>
</html>
```

style.css

```
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    user-select: none;
    outline: none;
}
body {
    background-color: #000;
    color: #fff;
}
.container {
```

```
display: flex;
justify-content: center;
align-items: center;
height: 100vh;
background-color: #1f1f1f;
}
.input-box {
width: 400px;
max-width: 90%;
position: relative;
}
.input-box input {
width: 100%;
height: 60px;
background-color: transparent;
color: #fff;
padding: 0 20px;
font-size: 20px;
border: 1px solid #fff;
}
.message {
position: absolute;
bottom: -30px;
color: #fff;
font-size: 15px;
display: none;
}
```

script.js

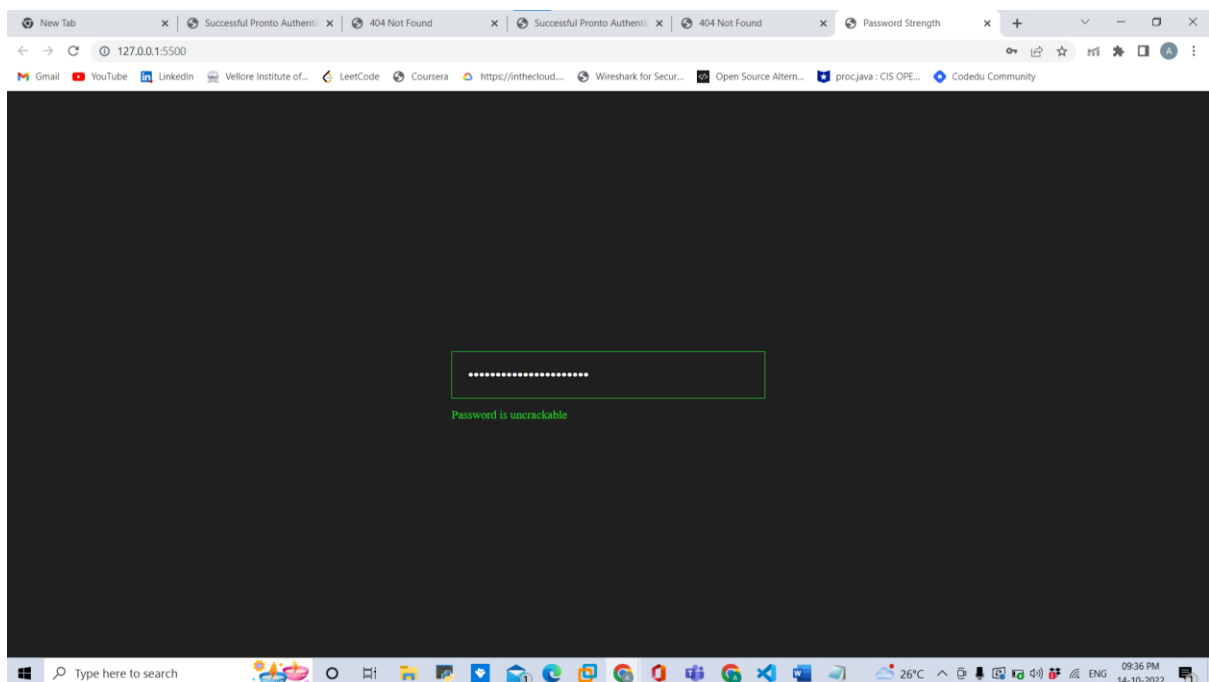
```
const pass = document.querySelector(".password");
const msg = document.querySelector(".message");
const str = document.querySelector("#strength");
const btn = document.querySelector(".toggler");

// conditions
var nums=/^[0-9]+$/
var characters=/^[a-zA-Z]+$/
var combinecharnum=/^[a-z0-9]+$/
var uppercharnum=/^[0-9A-Z]+$/
var combinespecialcharnum=/[0-9A-Z!@#$%^&*(),.?":{}|<>]+$/

pass.addEventListener("input", () => {
  if (pass.value.length > 0) {
    msg.style.display = "block";
  } else {
    msg.style.display = "none";
  }
  if ((pass.value.match(nums) || pass.value.match(characters)) && pass.value.length < 7) {
    if(pass.value.length<7)
    str.innerText = "weak";
    pass.style.borderColor = "red";
    msg.style.color = "red";
  } else if ((pass.value.match(combinecharnum)) && pass.value.length < 10) {
    str.innerText = "medium";
    pass.style.borderColor = "orange";
    msg.style.color = "orange";
  } else if ((pass.value.match(uppercharnum)) && pass.value.length < 16) {
    str.innerText = "strong";
    pass.style.borderColor = "blue";
  }
}
```

```
msg.style.color = "blue";
} else if ((pass.value.match(combinespecialcharnum)) && pass.value.length > 16) {
    str.innerText = "uncrackable";
    pass.style.borderColor = "#26d730";
    msg.style.color = "#26d730";
}
if (pass.value.startsWith(" ")) {
    str.innerText = "Password can't start with space !";
    pass.value = "";
}
});
```

Screenshots



Q2 Write a JavaScript code to validate a user by considering the username "ABC" and the password "XYZ". Assume the form element provides the username and password. If the password is correct, then display the welcome message with the username, otherwise show an error message that says "invalid".

index.html

```
<html>

  <title>
    Validation
  </title>
  <head>
    <script src="script.js"></script>
  </head>
  <body>
    <center>
      <form>
        <h1 style="color:green">User Validation</h1>
        <!-- Enter Username -->
        <td> Enter Username </td>
        <input type = "username" name = "user" placeholder="Username" id="user"> <br><br>

        <!-- Enter password -->
        <td> Password </td>
        <input type = "password" name = "pswd" placeholder="Password" id="pswd"> <br><br>

        <!--Click to validate user -->
        <button type = "submit" onclick="matchPassword()">Submit</button>

        <!-- Click to reset fields -->
        <button type = "reset" value = "Reset" >Reset</button>
```

```
</form>

</center>

</body>

</html>
```

script.js

```
function matchPassword() {

    var user1='ABC'

    var pw1='XYZ'

    var user2 = document.getElementById("user").value;

    var pw2 = document.getElementById("pswd").value;

    if(pw1 == pw2 && user1==user2)

    {

        document.write( "Welcome ABC");

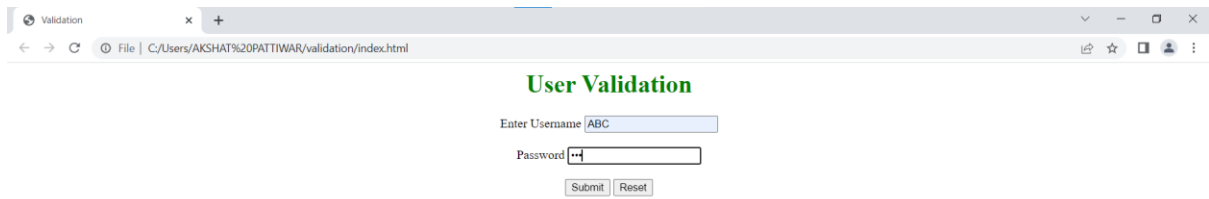
    } else {

        document.write("Invalid");

    }

}
```

Screenshots



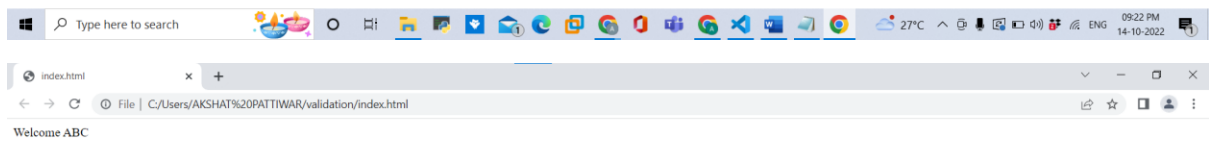
Validation

File | C:/Users/AKSHAT%20PATTIWAR/validation/index.html

User Validation

Enter Username

Password



Q3 Write a script that asks the user to enter two numbers, obtains the two numbers from the user, and outputs text that displays the sum, product, difference, and quotient of the two numbers.

[index.html](#)

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset = "utf-8">
```

```
<title>Operations Application</title>
```

```
<script>
```

```
var firstNumber;
```

```
var secondNumber;
```

```
var number1;
```

```
var number2;
```

```
var sum;
```

```
var product;
```

```
var difference;
```

```
var quotient;
```

```
firstNumber = window.prompt( "Enter first integer" );
```

```
secondNumber = window.prompt( "Enter second integer" );
```

```
number1 = parseInt( firstNumber );
```

```
number2 = parseInt( secondNumber );
```

```
sum = number1 + number2;
```

```
product = number1 * number2;
```

```
difference = number1 - number2;
```

```
quotient = number1 / number2;
```

```
document.writeln( "<h1>The sum is " + sum + "</h1>" );  
document.writeln( "<h1>The product is " + product + "</h1>");  
document.writeln( "<h1>The difference is " + difference + "</h1>");  
document.writeln( "<h1>The quotient is " + quotient + "</h1>");  
  
</script>  
  
</head><body></body>  
  
</html>
```

Screenshots

