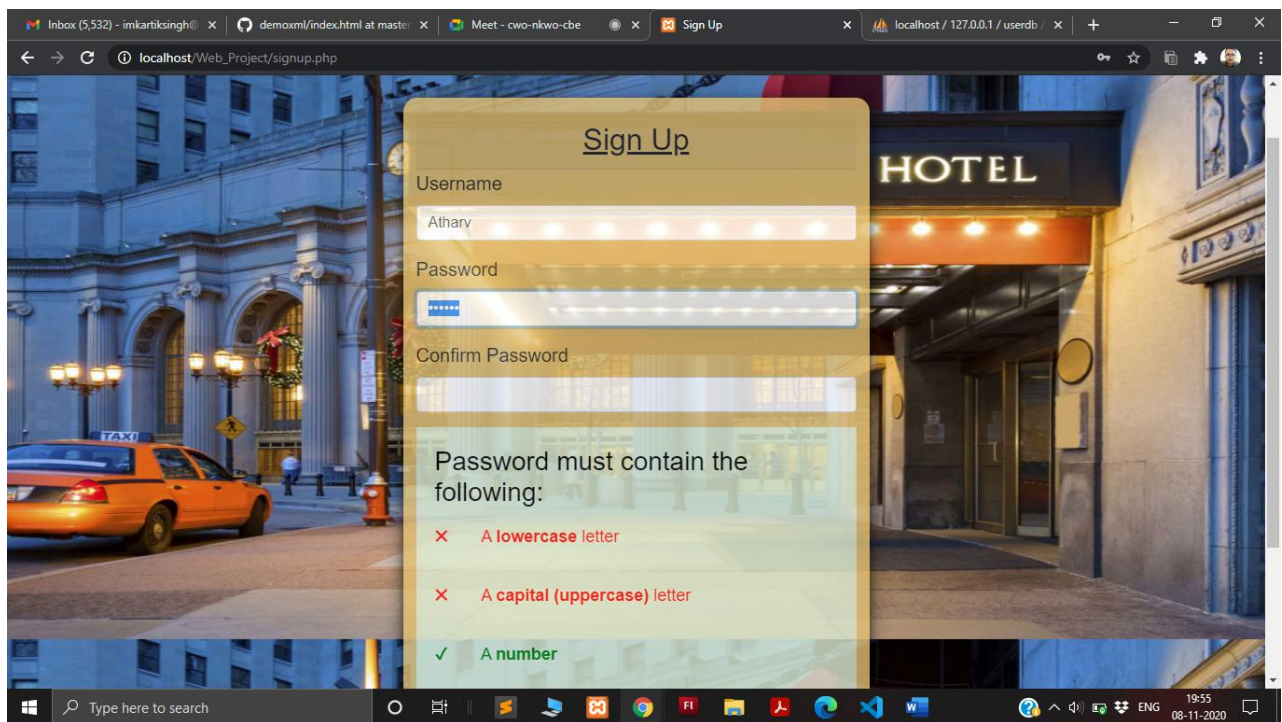


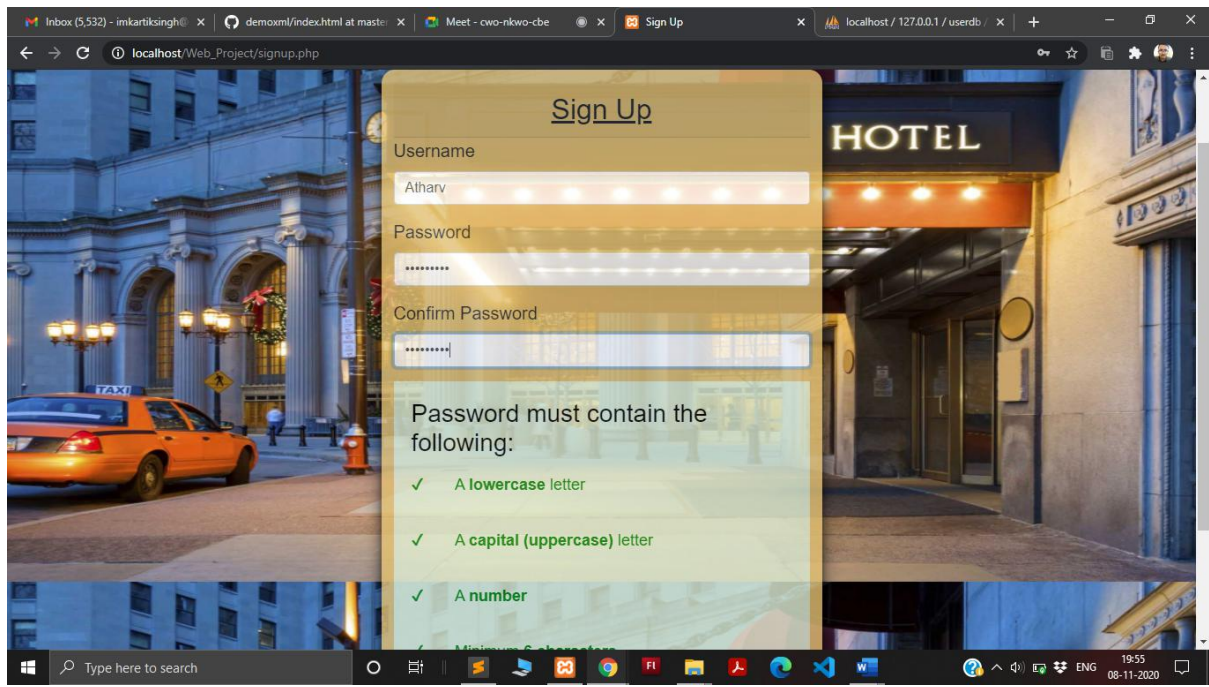
Experiment 7: Dynamic web page validation using JavaScript

Aim: To make a dynamic web page validation using JavaScript

Implementation:

Output:





Code:

```
<?php
```

```
// Include config file
```

```
require_once "config.php";
```

```
// Define variables and initialize with empty values
```

```
$username = $password = $confirm_password = "";
```

```
$username_err = $password_err = $confirm_password_err = "";
```

```
// Processing form data when form is submitted
```

```
if($_SERVER["REQUEST_METHOD"] == "POST"){
```

```
    // Validate username
```

```
    if(empty(trim($_POST["username"])))
```

```
    {
        $username_err = "Please enter a username.";
    } else{
```

```
        // Prepare a select statement
```

```
        $sql = "SELECT id FROM users WHERE username = ?";
```

```
if($stmt = mysqli_prepare($link, $sql)){
    // Bind variables to the prepared statement as parameters
    mysqli_stmt_bind_param($stmt, "s", $param_username);

    // Set parameters
    $param_username = trim($_POST["username"]);

    // Attempt to execute the prepared statement
    if(mysqli_stmt_execute($stmt)){
        /* store result */
        mysqli_stmt_store_result($stmt);

        if(mysqli_stmt_num_rows($stmt) == 1){
            $username_err = "This username is already taken.";
        } else{
            $username = trim($_POST["username"]);
        }
    } else{
        echo "Oops! Something went wrong. Please try again later.";
    }

    // Close statement
    mysqli_stmt_close($stmt);
}

// Validate password
if(empty(trim($_POST["password"]))){
    $password_err = "Please enter a password.";
} elseif(strlen(trim($_POST["password"])) < 6){
    $password_err = "Password must have atleast 6 characters.";
```

```

    } else{

        $password = trim($_POST["password"]);
    }

    // Validate confirm password
    if(empty(trim($_POST["confirm_password"]))) {
        $confirm_password_err = "Please confirm password.";
    } else{
        $confirm_password = trim($_POST["confirm_password"]);
        if(empty($password_err) && ($password != $confirm_password)){
            $confirm_password_err = "Password did not match.";
        }
    }
}

// Check input errors before inserting in database
if(empty($username_err) && empty($password_err) && empty($confirm_password_err)){

    // Prepare an insert statement
    $sql = "INSERT INTO users (username, password) VALUES (?, ?)";

    if($stmt = mysqli_prepare($link, $sql)){
        // Bind variables to the prepared statement as parameters
        mysqli_stmt_bind_param($stmt, "ss", $param_username, $param_password);

        // Set parameters
        $param_username = $username;
        $param_password = password_hash($password, PASSWORD_DEFAULT); // Creates a
password hash

        // Attempt to execute the prepared statement
        if(mysqli_stmt_execute($stmt)){

```

```
// Redirect to login page
header("location: login.php");
} else{
    echo "Something went wrong. Please try again later.";
}

// Close statement
mysqli_stmt_close($stmt);
}
}

// Close connection
mysqli_close($link);
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Sign Up</title>
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css"
integrity="sha384-Vkoo8x4CGsO3+HhXv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh"
crossorigin="anonymous"> <title></title>
    <style type="text/css">
        #message {
            display: none;
            background: #deedd3;
            color: #000;
            position: relative;
            padding: 20px;
```

```
margin-top: 10px;
width: 100%;
margin: auto;
}
```

```
#message p {
padding: 10px 35px;
font-size: 18px;
}
```

```
.valid {
color: green;
}
```

```
.valid:before {
position: relative;
left: -35px;
content: "✓";
}
```

/* Add a red text color and an "x" when the requirements are wrong */

```
.invalid {
color: red;
}
```

```
.invalid:before {
position: relative;
left: -35px;
content: "✗";
}
```

```
body
{
  font-size: 20px;
  font-family: 'Arial';
  padding: auto;
  margin-top: 110px;
  background-color: black;
  background-image: url('bg.jpg');
  background-size: 1400px 680px;
  opacity: 120%;
}

.container
{
  max-width: 500px;
  padding: 14px 14px 14px 14px;
  box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.5), 0 6px 20px 0 rgba(0, 0, 0, 0.8);
  align-self: center;
  background-color: #E2C073;
  border-radius: 15px;
  align-self: left;
  opacity: 80%;
  margin-top: -40px;

a
{
  color: #7cc278;
}

</style>
}
```

</head>

<body>

<div class="container">

<h2 class="text-center card-header"><u>Sign Up</u></h2>

<form action="<?php echo htmlspecialchars(\$_SERVER["PHP_SELF"]); ?>" method="post">

<div class="form-group <?php echo (!empty(\$username_err)) ? 'has-error' : ''; ?>">

<label>Username</label>

<input type="text" name="username" class="form-control" value="<?php echo \$username; ?>">

<?php echo \$username_err; ?>

</div>

<div class="form-group <?php echo (!empty(\$password_err)) ? 'has-error' : ''; ?>">

<label>Password</label>

<input type="password" name="password" class="form-control" id="password" value="<?php echo \$password; ?>">

<?php echo \$password_err; ?>

</div>

<div class="form-group <?php echo (!empty(\$confirm_password_err)) ? 'has-error' : ''; ?>">

<label>Confirm Password</label>

<input type="password" name="confirm_password" class="form-control" id="confirmPassword" value="<?php echo \$confirm_password; ?>">

<?php echo \$confirm_password_err; ?>

</div>

<div id="message">

<h3>Password must contain the following:</h3>

<p id="letter" class="invalid">A lowercase letter</p>

<p id="capital" class="invalid">A capital (uppercase) letter</p>

<p id="number" class="invalid">A number</p>

<p id="length" class="invalid">Minimum 6 characters</p>

</div>

<div class="form-group">


```
        <input type="submit" class="btn btn-primary " id="submitButton" value="Sign Up">
    </div>

    <p>Already have an account? <a href="login.php">Login here</a>.</p>
</form>
</div>
<script>
    var myInput = document.getElementById("password");
    var myInput2 = document.getElementById("confirmPassword");
    var letter = document.getElementById("letter");
    var capital = document.getElementById("capital");
    var number = document.getElementById("number");
    var length = document.getElementById("length");

    // When the user clicks on the password field, show the message box
    // myInput.onfocus = function() {
    //   document.getElementById("message").style.display = "block";
    // }

    // // When the user clicks outside of the password field, hide the message box
    // myInput.onblur = function() {
    //   document.getElementById("message").style.display = "none";
    // }

    // When the user starts to type something inside the password field
    myInput.onkeyup = function() {
        // Validate lowercase letters
        var lowerCaseLetters = /[a-z]/g;
        if(myInput.value.match(lowerCaseLetters)) {
            letter.classList.remove("invalid");
            letter.classList.add("valid");
        }
    }
}
```

```
} else {  
    letter.classList.remove("valid");  
    letter.classList.add("invalid");  
  
}  
  
// Validate capital letters  
var upperCaseLetters = /[A-Z]/g;  
if(myInput.value.match(upperCaseLetters)) {  
    capital.classList.remove("invalid");  
    capital.classList.add("valid");  
  
} else {  
    capital.classList.remove("valid");  
    capital.classList.add("invalid");  
  
}  
  
// Validate numbers  
var numbers = /[0-9]/g;  
if(myInput.value.match(numbers)) {  
    number.classList.remove("invalid");  
    number.classList.add("valid");  
  
} else {  
    number.classList.remove("valid");  
    number.classList.add("invalid");  
  
}  
  
// Validate length
```

```
if(myInput.value.length>=1)
{
    document.getElementById("message").style.display = "block";
}
else
    document.getElementById("message").style.display = "none";
if(myInput.value.length >= 6) {
    length.classList.remove("invalid");
    length.classList.add("valid");

} else {
    length.classList.remove("valid");
    length.classList.add("invalid");

}

}

</script>
</body>
</html>
```

Result:The experiment was successfully completed.