



# Network and Web Technology Lab

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# HTML form Designing, Validation, and Database Storing

**GitHub Link:** <https://github.com/Chandirasegaran/wt-and-network-lab-sem-9/tree/main/WT%20Ex%201>

**Page Live at:** <https://chandirasegaran.github.io/wt-and-network-lab-sem-9/WT%20Ex%201/index.html>

## Aim:

To design an HTML form and validate using JavaScript and Connect to Database and store the data.

## HTML & PHP Code:

```
<?php
// Database configuration
$servername = "localhost";
$username = "root";
$password = "2503";
$dbname = "studentreg";

// Create a connection to the database
$conn = new mysqli($servername, $username, $password, $dbname);

// Check the connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Initialize variables
$name = $regno = $fname = $mname = $dob = $email = $phone = $course = "";
$img_destination = "uploads/default.jpg";
$resume_destination = "uploads/default.pdf";

// Handle form data and file uploads
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = strtoupper($_POST["name"]); // Convert to uppercase
    $regno = strtoupper($_POST["regno"]); // Convert to uppercase
    $fname = strtoupper($_POST["fname"]); // Convert to uppercase
    $mname = strtoupper($_POST["mname"]); // Convert to uppercase
```

```

$dob = $_POST["dob"];
$email = $_POST["email"];
$phone = $_POST["phone"];
$course = $_POST["courselist"];

// Handle image upload
if (isset($_FILES["img-btn"]) && $_FILES["img-btn"]["error"] == 0) {
    $img_name = $_FILES["img-btn"]["name"];
    $img_tmp_name = $_FILES["img-btn"]["tmp_name"];
    $img_destination = "uploads/" . $regno . "_photo.jpg";

    // Move the uploaded image to a specified directory
    move_uploaded_file($img_tmp_name, $img_destination);
}

// Handle PDF resume upload
if (isset($_FILES["res-btn"]) && $_FILES["res-btn"]["error"] == 0) {
    $resume_name = $_FILES["res-btn"]["name"];
    $resume_tmp_name = $_FILES["res-btn"]["tmp_name"];
    $resume_destination = "uploads/" . $regno . "_resume.pdf";

    // Move the uploaded PDF to a specified directory
    move_uploaded_file($resume_tmp_name, $resume_destination);
}

// Insert data into the database
$sql = "INSERT INTO student_profiles (name, regno, fname, mname, dob, email, phone,
course, image_path, resume_path)
VALUES ('$name', '$regno', '$fname', '$mname', '$dob', '$email', '$phone',
'$course', '$img_destination', '$resume_destination')";

if ($conn->query($sql) === TRUE) {
    echo "Record inserted successfully";
} else {
    echo "Error: " . $sql . "<br>" . $conn->error;
}
}

// Close the database connection
$conn->close();
?>

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">

```

```

    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Student Profile</title>
    <link rel="icon" href="./assets/Images/favicon.png" type="image/jpg">
    <link rel="stylesheet" href="./assets/Styles/styles.css">
</head>

<body>
    <main>
        <div id="container">
            <!-- PU LOGO -->
            <span class="pulogo">
                
                <label for="pulogoid">Pondicherry University</label>
            </span>

            <!-- Title -->
            <span class="title">
                <h3 class="title">Create Your University Account</h3>
            </span>
            <form action="index.php" method="post" enctype="multipart/form-data">
                <div class="name">
                    <input type="text" name="name" required>
                    <label class="placeholderlable" for="name">Name</label>
                </div>
                <div class="regno">
                    <input type="text" name="regno" required>
                    <label class="placeholderlable" for="regno">Register Number</label>
                </div>
                <div class="fname">
                    <input type="text" name="fname" required>
                    <label class="placeholderlable" for="fname">Father Name</label>
                </div>
                <div class="mname">
                    <input type="text" name="mname" required>
                    <label class="placeholderlable" for="mname">Mother Name</label>
                </div>
                <div class="dob">
                    <input type="date" name="dob" placeholder="none" value="25-03-2002"
required>
                    <label class="placeholderlableactive" for="dob">Date of
Birth</label>
                </div>
                <div class="email">
                    <input type="email" name="email" id="emailinput" required>
                    <label class="placeholderlable" id="emaillabel"
for="email">Email</label>
                </div>
            </form>
        </div>
    </main>
</body>

```

```

        <div class="phoneclass">
            <input type="tel" name="phone" id="phone" min='10' max='10'
required>
            <label class="placeholderlable" id="phonelabid" for="phone">Phone
Number</label>
        </div>
        <div class="course">
            <select name="courselist" class="courselist">
                <option value="bsc">Bachelor of Computer Science</option>
                <option value="msc">Master of Computer Science</option>
                <option value="mca">Master of Computer Applications</option>
                <option value="mtechcs">Master of Technology in Computer
Science</option>
                <option value="mtechnis">Master of Technology in Networks and
Information Security</option>
            </select>
            <label class="placeholderlableactive" for="courselist">Select the
Course</label>
        </div>

        <div class="photoupload">
            <input type="file" name="img-btn" id="img-btn" accept="image/*"
hidden />
            <label class="ploadlable" for="img-btn">Upload Photo</label>
            <span id="img-chosen">No file chosen</span>
        </div>
        <br>
        <div class="resumeupload">
            <input type="file" name="res-btn" id="res-btn"
accept="application/pdf" hidden />
            <label class="ruploadlable" for="res-btn">Upload Resume</label>
            <span id="res-chosen">No file chosen</span>
        </div>
        <br>
        <input type="submit" value="Create Account">
    </form>
</div>
</main>
<script src="./assets/Scripts/app.js"></script>
</body>

</html>

```

## CSS Code:

```
@font-face {
  font-family: PSans;
  src: url(../Fonts/Product\ Sans\ Regular.ttf);
}

* {
  font-family: 'PSans', 'Consolas';
  box-sizing: border-box;
}

body{
  background-image: url(../Images/background.jpg);
  background-repeat: no-repeat;
  background-position: center;
  background-size: cover;
  background-attachment: fixed;
}

main {
  display: flex;
  justify-content: center;
}

#container {
  background-color: white;
  width: auto;
  border-radius: 10px;
  height: auto;
  border-width: 2px;
  border-style: solid;
  padding: 3% 4%;
  /* padding-left: 5%; */
  /* display: flex; */
  /* flex-direction: column; */
  margin: 3%;
  align-items: center;

  border-color: rgb(190, 183, 183);
  box-shadow: 0px 10px 25px rgb(166, 165, 165);
  border-radius: 1rem;
}
```

```
.ploadlable {
  background-color: #1b66c9;
  color: white;
  padding: 0.5rem;
  font-family: sans-serif;
  border-radius: 0.3rem;
  cursor: pointer;
  margin-top: 1rem;
}
.ploadlable:hover{
  background-color: hsl(214, 87%, 37%);
}
.rloadlable:hover{
  background-color: hsl(214, 87%, 37%);
}

.rloadlable {
  background-color: #1b66c9;
  color: white;
  padding: 0.5rem;
  font-family: sans-serif;
  border-radius: 0.3rem;
  cursor: pointer;
  margin-top: 1rem;
}

#img-chosen {
  margin-left: 0.3rem;
  font-family: sans-serif;
}

#res-chosen {
  margin-left: 0.3rem;
  font-family: sans-serif;
}

#pulongoid {
  width: 40px;
}

.pulogo>label {
  position: relative;
  top: -15px;
  left: 10px;
  font-weight: bolder;
  font-size: 1.3em;
}
```

```
.title {
    position: relative;
    top: -5px;
    font-size: 1.2em;
}

input[type=text],
input[type=email],
input[type=tel],
input[type=date] {
    width: 100%;
    padding: 12px 20px;
    transition: border-color 0.3s;
    outline: none;
    font-size: 16px;
}

input[type=text]:focus,
input[type=email]:focus,
input[type=tel]:focus,
input[type=date]:focus {
    border: 2px solid #1b66c9;
}

.courselist {
    width: 100%;
    padding: 12px 20px;
    transition: border-color 0.3s;
    outline: none;
    font-size: 16px;
}

.placeholderlable {
    position: relative;
    pointer-events: none;
    top: -34px;
    left: 20px;
    transition: top 0.3s, font-size 0.3s;
    font-size: 16px;
}

.placeholderlableactive {
    position: relative;
```



```

    top: -57px;
    left: 10px;
    font-size: 12px;
    background-color: white;
    padding-left: 5px;
    padding-right: 5px;
    color: #1b66c9;
}

input[type=text]:focus+.placeholderlable,
input[type=text]:valid+.placeholderlable {
    top: -57px;
    left: 10px;
    font-size: 12px;
    background-color: white;
    padding-left: 5px;
    padding-right: 5px;
    color: #1b66c9;
}

input[type=email]:focus+.placeholderlable,
input[type=email]:valid+.placeholderlable {
    top: -57px;
    left: 10px;
    font-size: 12px;
    background-color: white;
    padding-left: 5px;
    padding-right: 5px;
    color: #1b66c9;
}

input[type=tel]:focus+.placeholderlable,
input[type=tel]:valid+.placeholderlable {
    top: -57px;
    left: 10px;
    font-size: 12px;
    background-color: white;
    padding-left: 5px;
    padding-right: 5px;
    color: #1b66c9;
}

input[type=date]:focus+.placeholderlable,
input[type=date]:valid+.placeholderlable {
    top: -52px;
    left: 10px;
    font-size: 12px;

```

```

        background-color: white;
        padding-left: 5px;
        padding-right: 5px;
        color: #1b66c9;
    }

    .photoupload{
        margin-top: 10px;
        margin-bottom: 8px;
    }
    .resumeupload{
        margin-top: 8px;
    }

    input[type=submit]{
        background-color: #1b66c9;
        border: none;
        color: white;
        padding: 0.5rem;
        border-radius: 0.3rem;
        cursor: pointer;
        display: block;
        margin-left: auto;
        margin-bottom: auto;
    }

    @media (max-width:600px) {
        #pulongoid {
            width: 30px;
        }

        .pulongoid>label {
            position: relative;
            top: -10px;
            left: 10px;
            font-weight: bolder;
            font-size: 1em;
        }
        .title{
            font-size: medium;
            margin-left: 2%;
        }
    }

```

## JavaScript Code:

```
document.querySelectorAll('input[type="text"]').forEach(function (input) {  
    input.addEventListener('input', function () {  
        this.value = this.value.toUpperCase();  
    });  
});
```

```
// Photo Upload Button
```

```
const iactualBtn = document.getElementById('img-btn');  
const ifileChosen = document.getElementById('img-chosen');  
iactualBtn.addEventListener('change', function () {  
    ifileChosen.textContent = this.files[0].name  
})
```

```
// Resume Upload Button
```

```
const ractualBtn = document.getElementById('res-btn');  
const rfileChosen = document.getElementById('res-chosen');  
ractualBtn.addEventListener('change', function () {  
    rfileChosen.textContent = this.files[0].name  
})
```

```
// Phone Number Validation
```

```
const phoneInput = document.getElementById('phone');  
const plable = document.getElementById('phoneLabid');  
  
phoneInput.addEventListener('input', function (event) {  
    const sanitizedValue = phoneInput.value.replace(/\D/g, '');  
    phoneInput.value = sanitizedValue;  
    if (sanitizedValue.length === 10) {  
        phoneInput.style.borderColor = '';  
        phoneInput.setCustomValidity('');  
        plable.innerHTML = 'Phone Number';  
        plable.style.color = '';  
    } else {  
        phoneInput.style.borderColor = 'red';  
        phoneInput.setCustomValidity('');  
        plable.innerHTML = 'Enter valid Phone Number';  
        plable.style.color = 'red';  
    }  
});
```

```
// Email Validation
```

```
const emailInput = document.getElementById('emailinput');  
const elabel = document.getElementById('emaillabel');
```

```

emailInput.addEventListener('input', function (event) {
  const emailValue = emailInput.value;
  const emailPattern = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.(edu|com|net|org|in|co)$/;
  if (emailPattern.test(emailValue)) {
    emailInput.style.borderColor = '';
    emailInput.setCustomValidity('');
    elabel.innerHTML = 'Email';
    elabel.style.color = '';
  }
  else {
    emailInput.style.borderColor = 'red';
    emailInput.setCustomValidity('');
    elabel.innerHTML = 'Enter valid Email';
    elabel.style.color = 'red';
  }
});

```

// Preventing Submission from invalid email and Phone

```

const form = document.querySelector('form');
form.addEventListener('submit', function (event) {
  const emailValue = emailInput.value;
  const emailPattern = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.(edu|com|net|org|in)$/;
  const sanitizedValue = phoneInput.value.replace(/\D/g, '');

  if (!emailPattern.test(emailValue)) {
    emailInput.style.borderColor = 'red';
    emailInput.setCustomValidity('');
    elabel.innerHTML = 'Enter valid Email';
    elabel.style.color = 'red';
    event.preventDefault(); // Prevent form submission
  }
  if (sanitizedValue.length !== 10) {
    phoneInput.style.borderColor = 'red';
    phoneInput.setCustomValidity('');
    plable.innerHTML = 'Enter valid Phone Number';
    plable.style.color = 'red';
    event.preventDefault(); // Prevent form submission
  }
});

```

## MySQL Query:

```
CREATE DATABASE IF NOT EXISTS studentreg;
use studentreg;
CREATE TABLE IF NOT EXISTS student_profiles (
    id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(255) NOT NULL,
    regno VARCHAR(20) NOT NULL,
    fname VARCHAR(255) NOT NULL,
    mname VARCHAR(255) NOT NULL,
    dob DATE NOT NULL,
    email VARCHAR(255) NOT NULL,
    phone VARCHAR(15) NOT NULL,
    course VARCHAR(255) NOT NULL,
    image_path VARCHAR(255) NOT NULL,
    resume_path VARCHAR(255) NOT NULL
);
SELECT *FROM STUDENT_PROFILES;
```

## Output Images:

## Original Design

Student Profile

chandirasegaran.github.io/ut-and-network-lab-sem-9/WT%20Ex%201/index.html

Pondicherry University

Create Your University Account

Name

Register Number

Father Name

Mother Name

Date of Birth

dd-mm-yyyy

Email

Phone Number

Select the Course

Bachelor of Computer Science

26°C Partly cloudy

Search

ENG IN 11:47 PM 16-11-2023

# Form validation showing error for E-mail and Phone Number field.

Student Profile

chandirasegaran.github.io/vt-and-network-lab-sem-9/WT%20Ex%201/index.html

Pondicherry University

### Create Your University Account

Name  
CHANDIRASEGARAN

Register Number  
19384104

Father Name  
ILANGOVANE

Mother Name  
KRISHNAVENY

Date of Birth  
25-03-2002

Enter valid Email  
chandirasegaransegarg@gmail.com

Enter valid Phone Number  
9442000

Select the Course  
Master of Computer Applications

Upload Photo No file chosen

## Data stored in MySQL

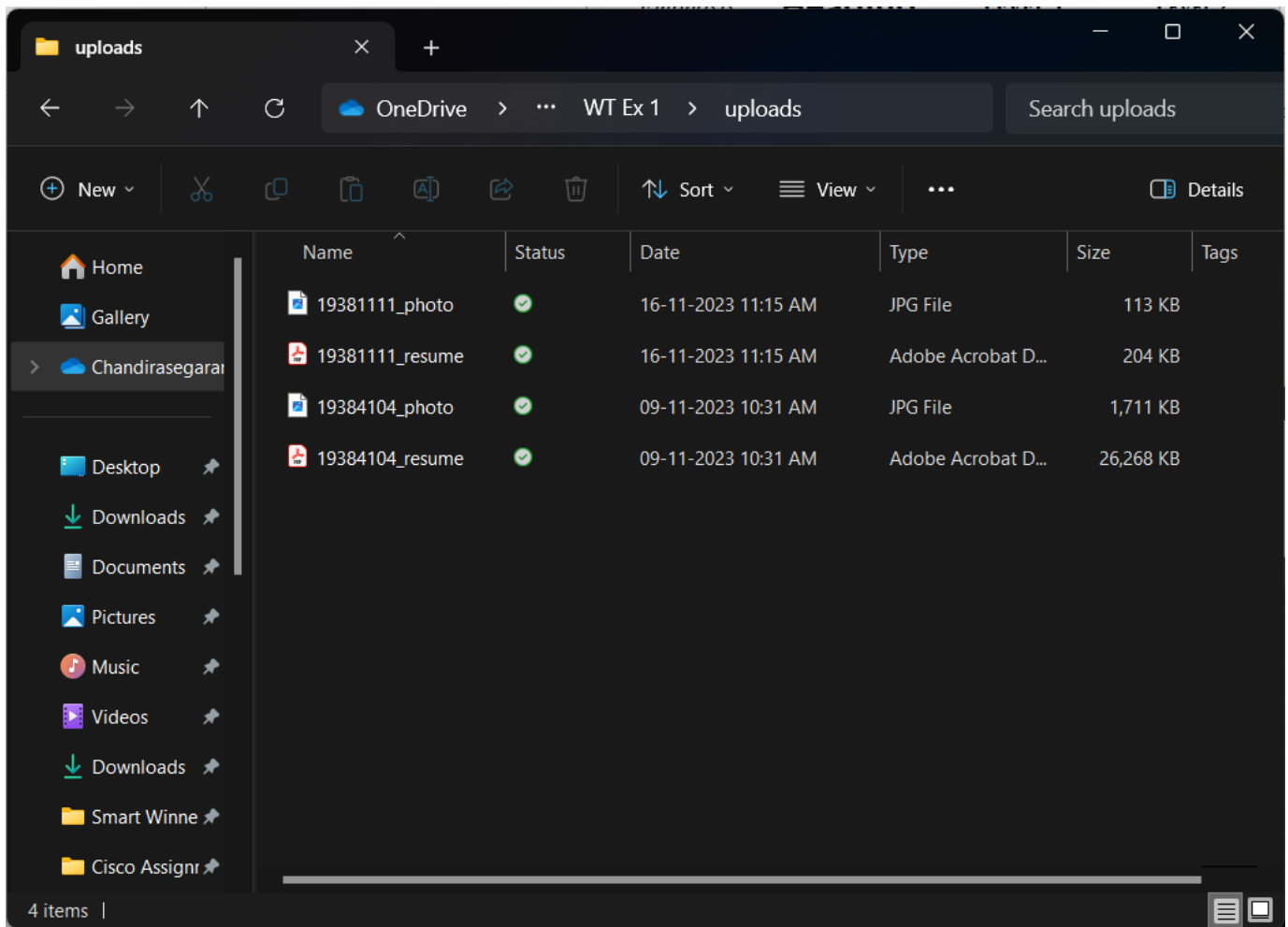
```
mysql> SELECT *FROM STUDENT_PROFILES;
```

id	name	regno	fname	mname	dob	email	phone	course	image_path
1	Chandirasegaran	19384104	Ilangovane	Krishnaveny	2002-03-25	chandirasegaransegarg@gmail.com	9442019821		uploads/default.jpg
2	Chandirasegaran	19384104	Ilangovane	Krishnaveny	2002-03-25	chandirasegaransegarg@gmail.com	9442019821		uploads/default.jpg
3	Chandirasegaran	19384104	Ilangovane	Krishnaveny	2002-03-25	chandirasegaransegarg@gmail.com	9442019821		uploads/default.jpg
4	Chandirasegaran	19384104	Ilangovane	Krishnaveny	2002-03-25	chandirasegaransegarg@gmail.com	9442019821		uploads/default.jpg
5	Chandirasegaran	19384104	Ilangovane	Krishnaveny	2002-03-25	chandirasegaransegarg@gmail.com	9442019821	mca	uploads/default.jpg
6	Chandirasegaran	19384104	Ilangovane	Krishnaveny	2002-03-25	chandirasegaransegarg@gmail.com	9442019821	mca	uploads/default.jpg
7	Chandirasegaran	19384104	Ilangovane	Krishnaveny	2023-11-22	chandirasegaransegarg@gmail.com	0942019821	bsc	uploads/19384104_photo.j
8	CHANDIRASEGARAN	19384104	ILANGOVANE	KRISHNAVENY	2023-11-13	chandirasegaransegarg@gmail.com	9442019821	mca	uploads/19384104_photo.j
9	CHANDIRASEGARAN	19381111	ILANGOVANE	KRISHNAVENY	2002-03-25	chandirasegaransegarg@gmail.com	9442019821	mca	uploads/19381111_photo.j

9 rows in set (0.05 sec)

```
mysql>
```

## Files stored in Uploads folder after successful submission



THANK YOU