

# Lab 5 — Developing Web Application using Django-Part I

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## 1. Student Details Form

**Description:** Create a form to enter student details and marks. On submit, append details to a textarea and show total percentage.

**Code (View):**

```
from django.shortcuts import render

def index(request):
    return render(request, 'q1_form.html')
```

**Code (URL config):**

```
from django.urls import path
from . import views

urlpatterns = [
    path('', views.index, name='index'),
]
```

**Code (Template):**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Student Details Form</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background: #f5f7fb;
            margin: 0;
            padding: 24px;
        }
    </style>

```

```
}

.container {
    max-width: 900px;
    margin: 0 auto;
    background: #ffffff;
    border-radius: 12px;
    padding: 24px;
    box-shadow: 0 8px 24px rgba(0, 0, 0, 0.08);
}

h1 {
    margin-top: 0;
}

.grid {
    display: grid;
    grid-template-columns: repeat(2, 1fr);
    gap: 16px;
}

label {
    font-weight: 600;
    display: block;
    margin-bottom: 6px;
}

input, textarea {
    width: 100%;
    padding: 10px 12px;
    border: 1px solid #d7dbe7;
    border-radius: 8px;
    font-size: 14px;
    box-sizing: border-box;
}

textarea {
    min-height: 90px;
    resize: vertical;
}

.full {
    grid-column: 1 / -1;
}

.actions {
    margin-top: 16px;
    display: flex;
    gap: 12px;
    align-items: center;
}

button {
    background: #3a6cf4;
    color: #fff;
    border: 0;
    padding: 10px 16px;
    border-radius: 8px;
    font-weight: 600;
    cursor: pointer;
}

.label {
    font-weight: 700;
```

```
        }
    .result {
        margin-top: 16px;
    }

```

```
</style>
</head>
<body>
    <div class="container">
        <h1>Student Details</h1>
        <form id="studentForm">
            <div class="grid">
                <div>
                    <label for="studentName">Name</label>
                    <input id="studentName" type="text" required />
                </div>
                <div>
                    <label for="dob">Date of Birth</label>
                    <input id="dob" type="date" required />
                </div>
                <div class="full">
                    <label for="address">Address</label>
                    <textarea id="address" required></textarea>
                </div>
                <div>
                    <label for="contact">Contact Number</label>
                    <input id="contact" type="tel" required />
                </div>
                <div>
                    <label for="email">Email ID</label>
                    <input id="email" type="email" required />
                </div>
                <div>
                    <label for="english">English Marks</label>
                    <input id="english" type="number" min="0" max="100" required
/>
                </div>
                <div>
                    <label for="physics">Physics Marks</label>
                    <input id="physics" type="number" min="0" max="100" required
/>
                </div>
                <div>
                    <label for="chemistry">Chemistry Marks</label>
                    <input id="chemistry" type="number" min="0" max="100" required
/>
                </div>
            </div>
            <div class="actions">
                <button type="submit">Submit</button>
                <span class="label">Percentage: <span id="percentage">0</span>%
            </span>
            </div>
            <div class="result">
                <label for="details">Submitted Details</label>

```

```
        <textarea id="details" readonly></textarea>
    </div>
</form>
</div>

<script>
const form = document.getElementById('studentForm');
const detailsBox = document.getElementById('details');
const percentageLabel = document.getElementById('percentage');

form.addEventListener('submit', (event) => {
    event.preventDefault();

    const name = document.getElementById('studentName').value.trim();
    const dob = document.getElementById('dob').value;
    const address = document.getElementById('address').value.trim();
    const contact = document.getElementById('contact').value.trim();
    const email = document.getElementById('email').value.trim();
    const english = Number(document.getElementById('english').value);
    const physics = Number(document.getElementById('physics').value);
    const chemistry = Number(document.getElementById('chemistry').value);

    const total = english + physics + chemistry;
    const percentage = (total / 3).toFixed(2);
    percentageLabel.textContent = percentage;

    const block = [
        `Name: ${name}`,
        `DOB: ${dob}`,
        `Address: ${address}`,
        `Contact: ${contact}`,
        `Email: ${email}`,
        `English: ${english}`,
        `Physics: ${physics}`,
        `Chemistry: ${chemistry}`,
        `Percentage: ${percentage}%`,
        '-----',
    ].join('\n');

    form.reset();
    detailsBox.value = detailsBox.value ? `${detailsBox.value}\n${block}` :
    block;
});
</script>
</body>
</html>
```

**Output:**

## Student Details

Name

Date of Birth

mm / dd / yyyy



Address

Contact Number

Email ID

English Marks

Physics Marks

Chemistry Marks

**Submit**

Percentage: 50.33%

**Submitted Details**

Name: Aditya Sinha  
 DOB: 0052-12-06  
 Address: 35434334  
 Contact: 65432

## 2. Promotion Eligibility Form

**Description:** Choose an employee ID and enter the date of joining. Show YES if experience is 5+ years; otherwise NO.

**Code (View):**

```
from django.shortcuts import render

def index(request):
    return render(request, 'q2_promo.html')
```

**Code (URL config):**

```
from django.urls import path
from . import views

urlpatterns = [
    path('', views.index, name='index'),
```

**Code (Template):**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Promotion Eligibility</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background: #f7f8fc;
            margin: 0;
            padding: 24px;
        }
        .card {
            max-width: 640px;
            margin: 0 auto;
            background: #ffffff;
            border-radius: 12px;
            padding: 24px;
            box-shadow: 0 8px 24px rgba(0, 0, 0, 0.08);
        }
        label {
            font-weight: 600;
            display: block;
            margin-bottom: 6px;
        }
        select, input {
            width: 100%;
            padding: 10px 12px;
            border: 1px solid #d7dbe7;
            border-radius: 8px;
            font-size: 14px;
            box-sizing: border-box;
            margin-bottom: 14px;
        }
        button {
            background: #2f7d32;
            color: #fff;
            border: 0;
            padding: 10px 16px;
            border-radius: 8px;
            font-weight: 600;
            cursor: pointer;
        }
        .result {
            margin-top: 16px;
            font-size: 18px;
            font-weight: 700;
        }
    </style>

```

```
</style>
</head>
<body>
    <div class="card">
        <h1>Promotion Eligibility</h1>
        <form id="promoForm">
            <label for="employeeId">Employee ID</label>
            <select id="employeeId" required>
                <option value="">Select ID</option>
                <option value="EMP001">EMP001</option>
                <option value="EMP002">EMP002</option>
                <option value="EMP003">EMP003</option>
                <option value="EMP004">EMP004</option>
            </select>

            <label for="doj">Date of Joining</label>
            <input id="doj" type="date" required />

            <button type="submit">Am I Eligible for Promotion</button>
            <div class="result">Eligibility: <span id="eligibility">-</span></div>
        </form>
    </div>

    <script>
        const form = document.getElementById('promoForm');
        const eligibilityLabel = document.getElementById('eligibility');

        form.addEventListener('submit', (event) => {
            event.preventDefault();

            const dojValue = document.getElementById('doj').value;
            if (!dojValue) {
                eligibilityLabel.textContent = '-';
                return;
            }

            const doj = new Date(dojValue);
            const now = new Date();
            const years = (now - doj) / (1000 * 60 * 60 * 24 * 365.25);

            eligibilityLabel.textContent = years >= 5 ? 'YES' : 'NO';
        });
    </script>
</body>
</html>
```

**Output:**

## Promotion Eligibility

Employee ID

EMP002

Date of Joining

08 / 25 / 2020



Am I Eligible for Promotion

Eligibility: YES