

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;
```

```
}  
.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


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>
</html>
```

```
</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 Ellgible for Promotion

Eligibility: YES