WEB PROGRAMMING LAB-5 LAB EXERCISES

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Creating the python environment & installing Django

```
cd ~/Desktop/230905010_DevadathanNR/05_LAB
python3 -m venv djangoenv
source djangoenv/bin/activate
(djangoenv) > python3 -m pip install django
```

Question 1

Create a web form which allows the teacher to enter the student details like name, date of birth, address, contact number, email id and marks of English, Physics and Chemistry. After filling all the information and on clicking submit button, details should be added to a text area displayed on the same page. Display the total percentage of marks obtained in a label.

Create project & App

```
# Create Django project
django-admin startproject StudentForm
cd StudentForm
```

```
# Create app
python manage.py startapp formapp
```

StudentForm/settings.py

```
import os # added at the top

INSTALLED_APPS = [
    'formapp', # added this line
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
]

TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTem
plates',
        'DIRS': [os.path.join(BASE_DIR, 'formapp/template
s')], # added this
        'APP_DIRS': True,
    },
]
```

Project URLs: **StudentForm/urls.py**

```
from django.contrib import admin
from django.urls import path, include

urlpatterns = [
```

```
        path('admin/', admin.site.urls),
        path('', include('formapp.urls')),
    ]
```

App URLs: `formapp/urls.py`

```
# Created urls.py inside formapp

from django.urls import path
from . import views

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

View: `formapp/views.py`

```
from django.shortcuts import render

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

`student.html`

```
# Create templates folder & html file
mkdir formapp/templates
touch formapp/templates/student.html
```

```
<!doctype html>
<html>
<head>
```

```
<meta charset="utf-8">
<title>Student Details Form</title>

<script>
    function showDetails() {
        var name = document.getElementById("name").value;
        var dob = document.getElementById("dob").value;
        var address = document.getElementById("address").
value;
        var contact = document.getElementById("contact").
value;
        var email = document.getElementById("email").valu
e;

        var eng = parseInt(document.getElementById("en
g").value);
        var phy = parseInt(document.getElementById("ph
y").value);
        var chem = parseInt(document.getElementById("che
m").value);

        var total = eng + phy + chem;
        var percentage = (total / 300) * 100;

        document.getElementById("output").value =
            "Name: " + name + "\n" +
            "DOB: " + dob + "\n" +
            "Address: " + address + "\n" +
            "Contact: " + contact + "\n" +
            "Email: " + email + "\n" +
            "English: " + eng + "\n" +
            "Physics: " + phy + "\n" +
            "Chemistry: " + chem;

        document.getElementById("percent").innerHTML =
            "Total Percentage: " + percentage.toFixed(2)
```

```
+ "%";
        }
    </script>
</head>

<body>
    <h2>Student Details</h2>

    Name: <input type="text" id="name"><br><br>
    Date of Birth: <input type="date" id="dob"><br><br>
    Address: <input type="text" id="address"><br><br>
    Contact Number: <input type="text" id="contact"><br><br>
    Email ID: <input type="email" id="email"><br><br>

    <h3>Marks</h3>
    English: <input type="number" id="eng"><br><br>
    Physics: <input type="number" id="phy"><br><br>
    Chemistry: <input type="number" id="chem"><br><br>

    <button onclick="showDetails()">Submit</button><br><br>

    <textarea id="output" rows="10" cols="50"></textarea>

    <h3 id="percent"></h3>
</body>
</html>
```

Run

```
python manage.py runserver 8080
```

Output

Student Details

Name: Devadathan

Date of Birth: 22 / 11 / 2005

Address: B-7, MIT Quarters

Contact Number: 9019543805

Email ID: devadathannr@gmail.com

Marks

English: 28

Physics: 20

Chemistry: 30

Submit

```
Name: Devadathan
DOB: 2005-11-22
Address: B-7, MIT Quarters
Contact: 9019543805
Email: devadathannr@gmail.com
English: 28
Physics: 20
Chemistry: 30
```

Total Percentage: 26.00%

Question 2

Create a web form with employee ids in drop-down list. Use a textbox for accepting
date of joining. Add a button named "Am I Eligible for Promotion". On clicking the button, if he has more than 5 years of experience, then display "YES" else "NO" in the label control.

Create project & App

```
# Create Django project
django-admin startproject PromotionForm
cd PromotionForm

# Create app
python manage.py startapp formapp
```

StudentForm/settings.py

```
import os # added at the top

INSTALLED_APPS = [
    'formapp', # added this line
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
]

TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTem
plates',
```

```
        'DIRS': [os.path.join(BASE_DIR, 'formapp/template
s')], # added this
        'APP_DIRS': True,
    },
]
```

Project URLs: `PromotionForm/urls.py`

```python
from django.contrib import admin
from django.urls import path, include

urlpatterns = [
    path('admin/', admin.site.urls),
    path('', include('formapp.urls')),
]
```

App URLs: `formapp/urls.py`

```python
# Created urls.py inside formapp

from django.urls import path
from . import views

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

View: `formapp/views.py`

```python
from django.shortcuts import import render

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

promotion.html

```
# Create templates folder & html file
mkdir formapp/templates
touch formapp/templates/promotion.html
```

```html
<!doctype html>
<html>
<head>
    <meta charset="utf-8">
    <title>Promotion Eligibility</title>

    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #f4f6f8;
        }
        .container {
            width: 400px;
            margin: 60px auto;
            padding: 20px;
            background-color: white;
            border-radius: 8px;
            box-shadow: 0px 0px 10px #ccc;
        }
        h2 {
            text-align: center;
        }
        label {
```

```
            font-weight: bold;
        }
        select, input, button {
            width: 100%;
            padding: 8px;
            margin-top: 6px;
            margin-bottom: 15px;
        }
        button {
            background-color: #007bff;
            color: white;
            border: none;
            cursor: pointer;
        }
        button:hover {
            background-color: #0056b3;
        }
        #result {
            text-align: center;
            font-size: 18px;
            font-weight: bold;
        }
</style>

<script>
    function checkEligibility() {
        var doj = document.getElementById("doj").value;
        if (doj === "") {
            alert("Please select Date of Joining");
            return;
        }

        var joinDate = new Date(doj);
        var today = new Date();

        var experience =
```

```javascript
            today.getFullYear() - joinDate.getFullYear();

        if (
            today.getMonth() < joinDate.getMonth() ||
            (today.getMonth() === joinDate.getMonth() &&
             today.getDate() < joinDate.getDate())
        ) {
            experience--;
        }

        if (experience > 5) {
            document.getElementById("result").innerHTML =
                "Eligible for Promotion: YES";
        } else {
            document.getElementById("result").innerHTML =
                "Eligible for Promotion: NO";
        }
    }
</script>
</head>

<body>
    <div class="container">
        <h2>Promotion Eligibility</h2>

        <label>Employee ID</label>
        <select>
            <option>EMP001</option>
            <option>EMP002</option>
            <option>EMP003</option>
            <option>EMP004</option>
        </select>

        <label>Date of Joining</label>
        <input type="date" id="doj">
```
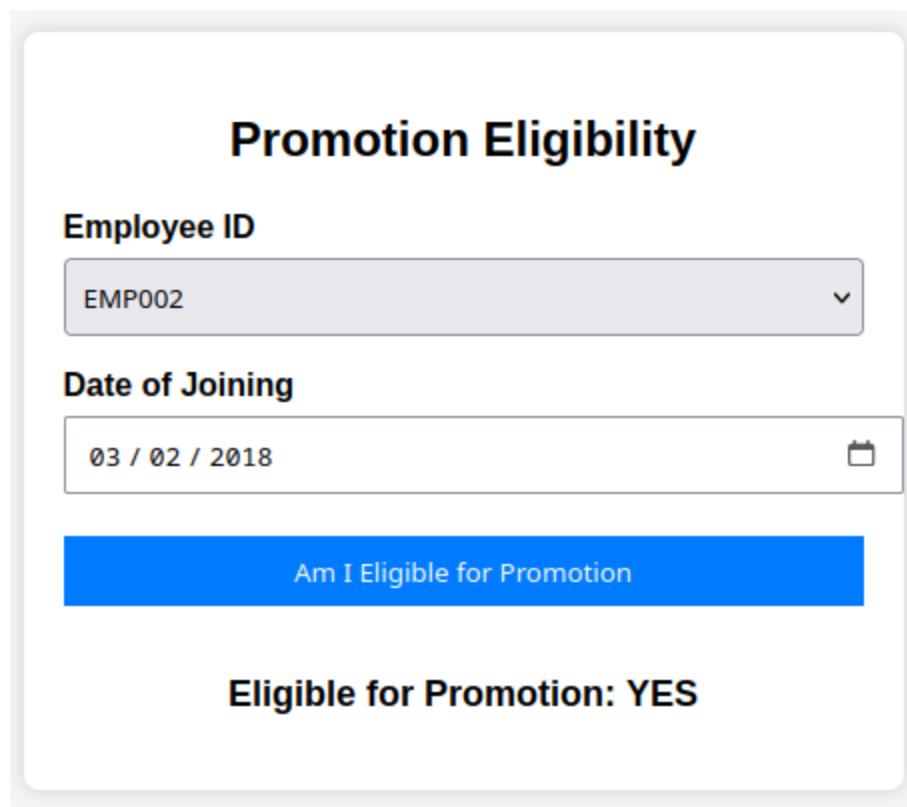
```
        <button onclick="checkEligibility()">
            Am I Eligible for Promotion
        </button>

        <p id="result"></p>
    </div>
</body>
</html>
```

Run

```
python manage.py runserver 8080
```

Output

Promotion Eligibility

Employee ID

EMP002

Date of Joining

03 / 02 / 2018

Am I Eligible for Promotion

Eligible for Promotion: YES

Promotion Eligibility

Employee ID

EMP001 ⌄

Date of Joining

03 / 02 / 2025 📅

Am I Eligible for Promotion

Eligible for Promotion: NO