

WP LAB 10– Databases – Part II

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Q1) Create a web page that receives the following information from a set of students: Student Id, Student Name, Course Name and Date of Birth. The application should also display the information of all the students once the data is Entered.

i) Settings.py

```
INSTALLED_APPS = [  
    'django.contrib.admin',  
    'django.contrib.auth',  
    'django.contrib.contenttypes',  
    'django.contrib.sessions',  
    'django.contrib.messages',  
    'django.contrib.staticfiles',  
    'students',  
]
```

ii) Student_management/urls.py

```
from django.contrib import admin  
from django.urls import path, include  
  
urlpatterns = [  
    path('admin/', admin.site.urls),  
    path("", include('students.urls')),  
]
```

iii) Students/urls.py

```
from django.urls import path  
from .views import add_student, student_list  
  
urlpatterns = [  
    path('add/', add_student, name='add_student'),  
    path("", student_list, name='student_list'),  
]
```

iv) Views.py

```
from django.shortcuts import render, redirect  
from .models import Student  
from .forms import StudentForm  
  
def add_student(request):  
    if request.method == 'POST':  
        form = StudentForm(request.POST)  
        if form.is_valid():  
            form.save()  
            return redirect('student_list')  
    else:
```

```
form = StudentForm()
```

```
return render(request, 'students/add_student.html', {'form': form})
```

```
def student_list(request):  
    students = Student.objects.all()  
    return render(request, 'students/student_list.html', {'students': students})
```

v) Models.py

```
from django.db import models
```

```
class Student(models.Model):  
    student_id = models.CharField(max_length=20, unique=True)  
    student_name = models.CharField(max_length=100)  
    course_name = models.CharField(max_length=100)  
    date_of_birth = models.DateTimeField()
```

```
    def __str__(self):  
        return self.student_name
```

vi) Forms.py

```
from django import forms  
from .models import Student
```

```
class StudentForm(forms.ModelForm):  
    date_of_birth = forms.DateTimeField(  
        widget=forms.DateTimeInput(attrs={'type': 'datetime-local'}), # HTML5 DateTime  
        Picker  
        label="Date of Birth"  
    )
```

```
    class Meta:  
        model = Student  
        fields = ['student_id', 'student_name', 'course_name', 'date_of_birth']
```

vii) Admin.py

```
from django.contrib import admin  
from .models import Student
```

```
@admin.register(Student)  
class StudentAdmin(admin.ModelAdmin):  
    list_display = ('student_id', 'student_name', 'course_name', 'date_of_birth')  
    search_fields = ('student_name', 'student_id')
```

viii) Add_student.html

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
    <meta charset="UTF-8">  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <title>Add Student</title>
```

```
<style>
  body{
    font-family: Arial, sans-serif;
    background-color: #f4f4f4;
    text-align: center;
  }
  h2{
    color: #333;
  }
  form{
    background: white;
    padding: 20px;
    width: 300px;
    margin: 20px auto;
    border-radius: 8px;
    box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
  }
  input, select {
    width: 100%;
    padding: 8px;
    margin: 10px 0;
    border: 1px solid #ccc;
    border-radius: 5px;
  }
  button {
    background: #28a745;
    color: white;
    padding: 10px;
    border: none;
    border-radius: 5px;
    cursor: pointer;
  }
  button:hover {
    background: #218838;
  }
  a {
    display: inline-block;
    margin-top: 15px;
    color: #007bff;
    text-decoration: none;
  }
  a:hover {
    text-decoration: underline;
  }
</style>
</head>
<body>
  <h2>Add Student</h2>
```

```

<form method="POST">
  {% csrf_token %}
  {{ form.as_p }}
  <button type="submit">Add Student</button>
</form>
<a href="{% url 'student_list' %}">View Students</a>
</body>
</html>

```

ix)

Student_list.html

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Student List</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f4f4f4;
      text-align: center;
    }
    h2 {
      color: #333;
    }
    table {
      width: 80%;
      margin: 20px auto;
      border-collapse: collapse;
      background: white;
      box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
    }
    th, td {
      padding: 12px;
      border: 1px solid #ccc;
      text-align: left;
    }
    th {
      background: #007bff;
      color: white;
    }
    tr:nth-child(even) {
      background: #f9f9f9;
    }
    a {
      display: inline-block;
      margin-top: 15px;
      color: #007bff;
      text-decoration: none;
    }
  </style>

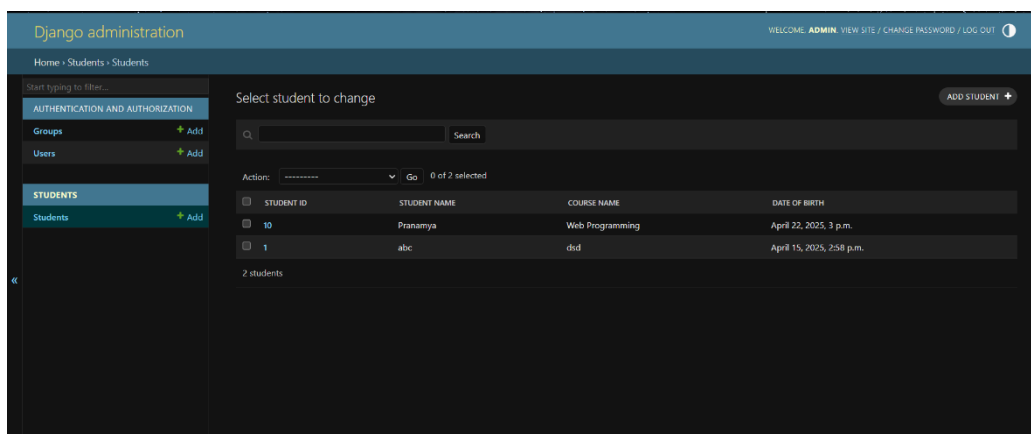
```

```

    }
    a:hover {
        text-decoration: underline;
    }
</style>
</head>
<body>
<h2>Student List</h2>
<table>
    <tr>
        <th>ID</th>
        <th>Name</th>
        <th>Course</th>
        <th>Date of Birth</th>
    </tr>
    {% for student in students %}
    <tr>
        <td>{{ student.student_id }}</td>
        <td>{{ student.student_name }}</td>
        <td>{{ student.course_name }}</td>
        <td>{{ student.date_of_birth }}</td>
    </tr>
    {% endfor %}
</table>
<a href="{% url 'add_student' %}">Add Student</a>
</body>
</html>

```

x) Screenshots



Add Student

Student id:

10

Student name:

Pranamyia

Course name:

Web Programming

Date of Birth:

22 - 04 - 2025 15 : 00

Add Student

[View Students](#)

Student List

ID	Name	Course	Date of Birth
1	abc	dsd	April 15, 2025, 2:58 p.m.
10	Pranamyia	Web Programming	April 22, 2025, 3 p.m.

[Add Student](#)