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D1

LAB 10 HOME-ASSIGNMENT

Q1) Assume a table “Institutes” with institute_id, name, and no_of_courses are the fields. Create a web page that retrieves all the data from “Institutes” table displays only Institute names in the list box.

code:

q1/urls.py

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

students/urls.py

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

students/forms.py

```
from django import forms
from .models import Student
class StudentForm(forms.ModelForm):
    class Meta:
        model = Student
        fields = ['student_id', 'student_name', 'course_name', 'date_of_birth']
```

students/views.py

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

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

students/models.py

```
from django.db import models
class Student(models.Model):
    student_id = models.CharField(max_length=10, unique=True)
    student_name = models.CharField(max_length=100)
    course_name = models.CharField(max_length=100)
    date_of_birth = models.DateField()
    def __str__(self):
    return self.student_name
```

students_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 Information</title>
</head>
<body>
<h1>Enter Student Information</h1>
<h2>Add New Student</h2>
<form method="POST">
{% csrf_token %}
{{ form.as_p }}
<button type="submit">Submit</button>
</form>
<h2>List of Students</h2>
<table border="1">
<thead>
<tr>
<th>Student ID</th>
<th>Student Name</th>
<th>Course Name</th>
<th>Date of Birth</th>
</tr>
</thead>
<tbody>
{% 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 %}
```

```
</tbody>
</table>
</body>
</html>
```

Enter Student Information

Add New Student

Student id:

Student name:

Course name:

Date of birth:

Submit

List of Students

Student ID	Student Name	Course Name	Date of Birth
12	a	cse	Dec. 3, 2003

Enter Student Information

Add New Student

Student id:

Student name:

Course name:

Date of birth:

Submit

List of Students

Student ID	Student Name	Course Name	Date of Birth
12	a	cse	Dec. 3, 2003
13456	Abc	Btech	Dec. 8, 1994

Django administration

WELCOME, ADMIN2. [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

Home > Students > Students

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

Groups

Users

STUDENTS

Students

Select student to change

ADD STUDENT

Action: Go 0 of 2 selected

☐ STUDENT

☐ Abc

☐ a

2 students

Django administration

WELCOME, ADMIN2. [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

Home > Students > Students > Abc

Change student

HISTORY

Abc

Student id:

13456

Student name:

Abc

Course name:

Btech

Date of birth:

1994-12-08

 Today

Note: You are 5.5 hours ahead of server time.

SAVE

Save and add another

Save and continue editing

Delete