

AYANIKA PAUL

220905128

LAB9 HOME-ASSINGMENT

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('institutes.urls')),
]
```

institutes/urls.py

```
from django.urls import path
from . import views
urlpatterns = [
    path("", views.index, name='index'),
    path('get-institute/<int:pk>/', views.get_institute_details, name='get_institute_details'),
]
```

institute/views.py

```
from django.shortcuts import render, get_object_or_404
from django.http import JsonResponse
from .models import Institutes
def index(request):
    institutes = Institutes.objects.all()
    return render(request, 'institutes/index.html', {'institutes': institutes})
def get_institute_details(request, pk):
    institute = get_object_or_404(Institutes, pk=pk)
    data = {
        'id': institute.institute_id,
        'name': institute.name,
        'no_of_courses': institute.no_of_courses,
    }
    return JsonResponse(data)
```

models.py

```
from django.db import models
class Institutes(models.Model):
    institute_id = models.AutoField(primary_key=True)
    name = models.CharField(max_length=100)
    no_of_courses = models.IntegerField()
    def __str__(self):
    return self.name
```

insitute/forms.py

```
from django import forms
from .models import Institutes

class InstituteSelectForm(forms.Form):
    institute = forms.ModelChoiceField(
        queryset=Institutes.objects.all(),
        empty_label="Select an Institute",
        label="Institute",
        widget=forms.Select(attrs={'class': 'form-control'})
    )
```

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Institutes</title>
<script>
function fetchInstituteDetails() {
const instituteId = document.getElementById('institutes-list').value;
if (instituteId) {
fetch(`/get-institute/${instituteId}/`)
.then(response => response.json())
.then(data => {
document.getElementById('institute-details').innerHTML = `
<tr>
<td>${data.id}</td>
<td>${data.name}</td>
<td>${data.no_of_courses}</td>
</tr>
`;
});
} else {
document.getElementById('institute-details').innerHTML = "";
}
}
```

```

</script>
</head>
<body>
<h1>Institutes</h1>
<label for="institutes-list">Select an Institute:</label>
<select id="institutes-list" name="institutes" onchange="fetchInstituteDetails()">
<option value="" disabled selected>Select an Institute</option>
{% for institute in institutes %}
<option value="{{ institute.institute_id }}">{{ institute.name }}</option>
{% endfor %}
</select>
<br><br>
<h2>Institute Details</h2>
<table border="1">
<thead>
<tr>
<th>Institute ID</th>
<th>Name</th>
<th>Number of Courses</th>
</tr>
</thead>
<tbody id="institute-details">
</tbody>
</table>
</body>
</html>

```

Select institutes to change

ADD INSTITUTES +

Action: 0 of 3 selected

☐ INSTITUTES

☐ XYZ

☐ MIT

☐ MIC

3 institutess

Institutes

Select an Institute:

MIC

Select an Institute

MIC

MIT

XYZ

Institute De

Institute ID	Name	Number of Courses
1	MIC	14

Institutes

Select an Institute:

MIT

Institute Details

Institute ID	Name	Number of Courses
2	MIT	20