

CRUD OPERATION

VIEWS.PY

```
from django.shortcuts import render, redirect
from django.urls import reverse_lazy
from django.views import generic
from django.contrib.messages.views import SuccessMessageMixin
from django.views.generic import CreateView, DetailView, DeleteView, UpdateView, ListView
from .forms import DimoForm
from .models import Dimo
from django.contrib.auth import login, authenticate
from django.contrib.auth.forms import UserCreationForm
```

```
class StudentListView(ListView):
    model = Dimo
    template_name = 'list/dimo_list.html'
    context_object_name = 'students'
    paginated_by = 4
```

```
def get_queryset(self):
    return Dimo.objects.order_by('-id')
```

```
class StudentCreateView(SuccessMessageMixin, CreateView):
    model = Dimo
    template_name = 'list/add.html'
    form_class = DimoForm
    success_url = reverse_lazy('slist')
    success_message = "Data Added Successfully"
```

```
class StudentDetailView(DetailView):
    model = Dimo
    template_name = 'list/dimo_detail.html'
```

```
class StudentUpdateView(SuccessMessageMixin, UpdateView):
    model = Dimo
    template_name = 'list/edit.html'
    form_class = DimoForm
```



```

success_url = reverse_lazy('slist')
success_message = "Data Updated Successfully"

class StudentDeleteView(SuccessMessageMixin, DeleteView):
    model = Dimo
    template_name = 'list/delete.html'

    success_url = reverse_lazy('slist')
    success_message = "Data Deleted Successfully"

```

MODELS.PY

```

from django.db import models

# Create your models here.
class Dimo(models.Model):

    fname =models.CharField(max_length=100,blank=True)

    course =models.CharField(max_length=100,blank=True)

    year =models.IntegerField(blank=True)

    place =models.CharField(max_length=100,blank=True)

    def _str_(self):
        return self.fname

```

URLS.PY

```

from django.urls import path
from . import views

urlpatterns = [

    path('slist', views.StudentListView.as_view(), name="slist"),
    path('add', views.StudentCreateView.as_view(), name="add"),
    path('rlist/<int:pk>/', views.StudentDetailView.as_view(), name="rlist"),

```



```

    path('elist/<int:pk>/', views.StudentUpdateView.as_view(), name="elist"),
    path('dlist/<int:pk>/', views.StudentDeleteView.as_view(), name="dlist"),
    path("", views.register, name='register'),
]

```

FORMS.PY

```

from .models import Dimo
from django.forms import ModelForm

class DimoForm(ModelForm):

    class Meta:
        model = Dimo
        fields = ['fname', 'course', 'year', 'place']

```

ADMIN.PY

```

from django.contrib import admin
from .models import Dimo

admin.site.register(Dimo)

```

TEMPLATES

DIMO_LIST.HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
        tr,th,td{
            border:1px solid blue;
            padding: 20px;
        }
        table{
            margin-left: 5cm;

```



```

padding: 20px;
background-color: black;
color: white;
}
</style>
</head>
<body>
  <h1>Student Lists</h1>
  <a href="{% url 'add' %}"><button>Add</button></a>
  <div>

    {% for message in messages %}

    <h1>{{message}}</h1>

    {% endfor %}

  </div>

  <table style="border: 2px solid black;">

    <thead>
      <tr>
        <th>Id</th>
        <th>First Name</th>
        <th>year</th>
        <th>course</th>
        <th>place</th>
        <th>Action</th>
      </tr>
    </thead>
    <tbody>

      {% if students %}
      {% for student in students %}

      <tr>

        <td>{{forloop.counter}}</td>
        <td>{{student.fname}}</td>
        <td>{{student.year}}</td>
        <td>{{student.course}}</td>
        <td>{{student.place}}</td>
        <td>
          <a href="{% url 'rlist' student.pk %}"><button>View</button></a>

```



```

        <a href="{% url 'elist' student.pk %}"><button>Edit</button></a>
        <a href="{% url 'dlist' student.pk %}"><button>Delete</button></a>

    </td>
</tr>

{% endfor %}
{% else %}
<h1>No Record Found</h1>
{% endif %}
</tbody>

</table>
</body>
</html>

```

DIMO_DETAIL.HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1> Details for {{object.fname}}</h1>
    <h2>Student Details</h2>
    <ul>
        <li>Name: {{object.fname}}</li>
        <li>course: {{object.course}}</li>
        <li>year: {{object.year}}</li>
        <li>place: {{object.place}}</li>
    </ul>

```



```
<a href="{% url 'slist' %}"><button>Back</button></a>
</body>
</html>
```

ADD.HTML

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

  <a href="{% url 'slist' %}"><button>Back</button></a>
  <form action="" method="post">
    {% csrf_token %}

    {{form}}

    <button type="submit">

      {% if not object.pk %}
      save
      {% else %}

      update
      {% endif %}

    </button>

  </form>
</body>
</html>
```

EDIT.HTML

```
<!DOCTYPE html>
```



```

<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>

  <a href="{% url 'slist' %}"><button>Back</button></a>
  <form action="" method="post">
    {% csrf_token %}

    {{form}}

    <button type="submit">

      {% if not object.pk %}
      save
      {% else %}

      update
      {% endif %}

    </button>

  </form>
</body>
</html>

```

DELETE.HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h1> Details for {{object.fname}}</h1>
  <h2>Student Details</h2>
  <ul>

```



```
<li>Name: {{object.fname}}</li>
<li>course: {{object.course}}</li>
<li>year: {{object.year}}</li>
<li>place: {{object.place}}</li>
</ul>

<p>Are you sure You want to delete a student {{object.fname}}</p>
<form action="" method="POST">
    {% csrf_token %}
    <input type="submit" value="yes, Delete">
</form>
<a href="{% url 'slist' %}"><button> No Go Back</button></a>
</body>
</html>
```

URLS.PY OF THE PROJECT

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

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

