Django

Command Prompt

Creating CRUD

settings.py

urls.py

```
myproject > urls.py > ...

1  from django.contrib import admin
2  from django.urls import path
3  from myapp import views

4
5  urlpatterns = [
6  path('admin/', admin.site.urls),
7  path('', views.index, name='index'),
8  path('addnew',views.addnew, name='addnew'),
9  path('edit/<int:id>', views.edit, name='edit'),
10  path('update/<int:id>', views.update, name='update'),
11  path('delete/<int:id>', views.destroy, name='destroy'),
12 ]
13
14
```

models.py

```
myapp > models.py > ...

from django.db import models

# Create your models here.

#make sure to use migrations and migrate everytime a model is added or removed.

class Student(models.Model):

name = models.CharField(max_length=100)

email = models.EmailField()

contact = models.CharField(max_length=15)

class Meta:

db_table = "tblemployee"
```

forms.py

```
myapp > forms.py > ...

1     from django import forms
2     from myapp.models import Student
3     #this file is manually created for forms attribute
4     class StudentForm(forms.ModelForm):
5          class Meta:
6          model = Student
7          fields = ['name', 'contact', 'email']
8          widgets = { 'name': forms.TextInput(attrs={ 'class': 'form-control' }),
9          'email': forms.EmailInput(attrs={ 'class': 'form-control' }),
10          'contact': forms.TextInput(attrs={ 'class': 'form-control' }),
11          }
12
```

```
🕏 views.py 🛛 🗙
myapp > 🐡 views.py > ...
      from django.shortcuts import render, redirect
       from myapp.forms import StudentForm
      from myapp.models import Student
      # Create your views here.
      def addnew(request):
           if request.method == "POST":
               form = StudentForm(request.POST)
               if form.is valid():
                   try:
                       form.save()
                       return redirect('/')
                   except:
                       pass
           else:
               form = StudentForm()
           return render(request, 'index.html', { 'form':form})
      def index(request):
           students = Student.objects.all()
           return render(request, "show.html", {'students':students})
      def edit(request, id):
           student = Student.objects.get(id=id)
           return render(request, 'edit.html', {'student':student})
      def update(request, id):
           student = Student.objects.get(id=id)
           form = StudentForm(request.POST, instance = student)
           if form.is valid():
               form.save()
               return redirect("/")
          return render(request, 'edit.html', {'student': student})
      def destroy(request, id):
          student = Student.objects.get(id=id)
          student.delete()
          return redirect("/")
```

base.html

edit.html

```
o edit.html X
    {% extends "base.html" %}
      {% block title %}Add New Student Records{% endblock title %}
      {% block content %}
      <div class="col-md-12">
          <form method="POST" class="post-form" action="/update/{{student.id}}">
          {% csrf_token %}
                  <h3>Update Details</h3>
             <div class="mb-3">
              <label>Student ID:</label>
<input type="text" class="form-control" name="id" id="id_id" required maxlength="20" value="{{ student.id }}"/>
                 <label>Name:</label>
                  <input type="text" class="form-control" name="name" id="id_name" required maxlength="100" value="{{ student.name }}" />
              <div class="mb-3">
                 <label>Email:</label>
                  <input type="email" class="form-control" name="email" id="id_email" required maxlength="254" value="{{ student.email }}" />
                  <input type="text" class="form-control" name="contact" id="id_contact" required maxlength="15" value="{{ student.contact }}" />
              <div class="mb-3">
                  <button type="submit" class="btn btn-success btn-lg">Update</button>
      {% endblock content %}
```

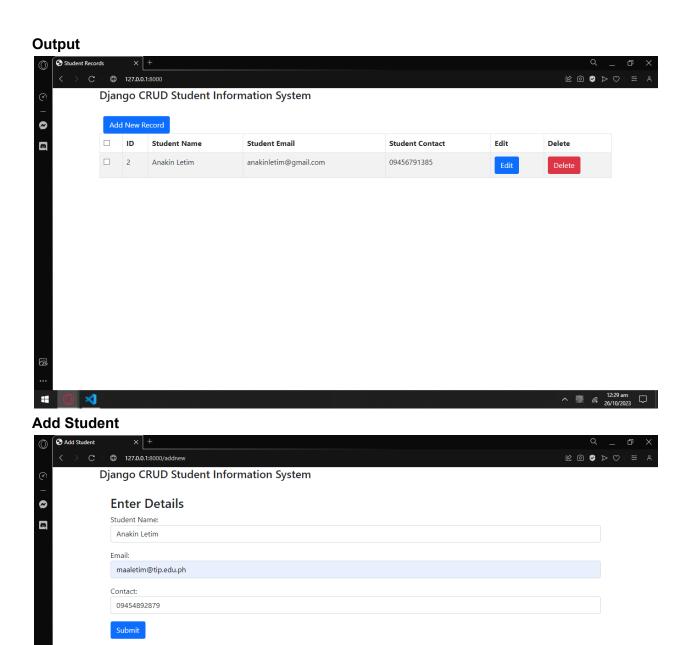
index.html

```
o index.html ×
myapp > templates > ( index.html > ...
      {% extends "base.html" %}
      {% block title %}Add Student{% endblock title %}
      {% block content %}
      <div class="col-md-12">
          <form method="POST" class="post-form" action="/addnew">
          {% csrf_token %}
          <div class="container">
               <div class="col-12">
              <h3>Enter Details</h3>
              <div class="mb-3">
                  <label>Student Name:</label>
                  {{ form.name }}
               <div class="mb-3">
                  <label>Email:</label>
                  {{ form.email }}
               <div class="mb-3">
                  <label>Contact:</label>
                  {{ form.contact }}
               <div class="mb-3">
                   <button type="submit" class="btn btn-primary">Submit</button>
           </form>
      {% endblock content %}
```

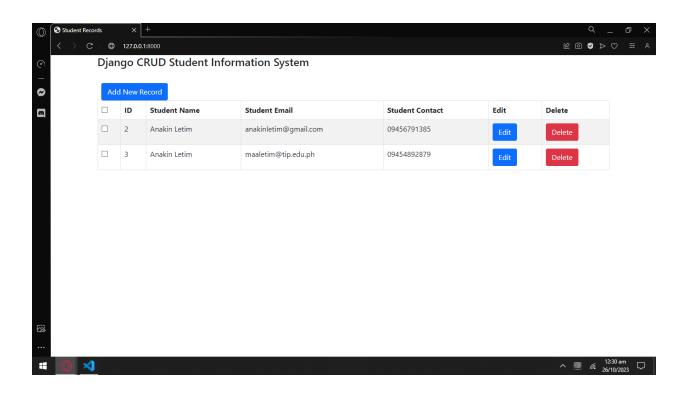
show.html

```
⇔ show.html ×

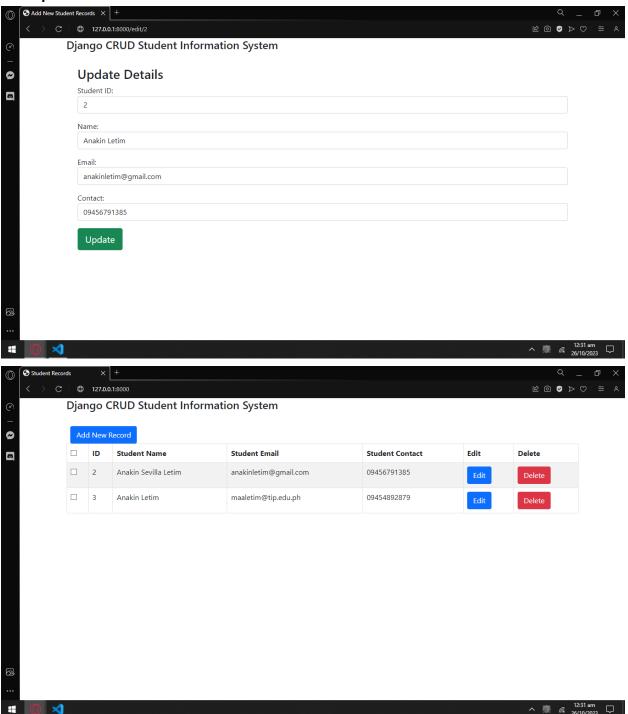
myapp > templates > • show.html > ...
 1 {% extends "base.html" %}
     {% block title %}Student Records{% endblock title %}
     {% block content %}
     <div class="col-md-12">
           <span><a href="/addnew" class="btn btn-primary">Add New Record</a></span>
           <div class="table-responsive">
           <input type="checkbox" id="checkall" />
              ID
              Student Name
              Student Email
              Student Contact
              Edit
              Delete
           {% for student in students %}
               input type="checkbox" class="checkthis" />
               {{ student.id }}
               {td>{{ student.name }}
               {td>{{ student.email }}
               \t d \in {td} = {td} 
               \label{lem:class} $$ \d href="\underline{\dit}_{{\ student.id\ }}$ class="btn btn-primary">Edit</a>
              <a href="/delete/{{ student.id }}" class="btn btn-danger">Delete</a>
           {% endfor %}
           {% endblock content %}
```



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Edit/Update Student



Delete Student

