

**User Can make signup,login , logut and perform crud operations on records name,city, phone project:-**

## **Step 1: Create Project & App**

Bash

```
# 1. Install Django (if not installed)
pip install django

# 2. Create project
django-admin startproject crud_example
cd crud_example

# 3. Create app
python manage.py startapp records
```

---

## **Step 2: Configure Settings**

**File: crud\_example/settings.py**

Python

```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'records',          # ← Add this
]

LOGIN_URL = '/login/'
LOGIN_REDIRECT_URL = '/'

LOGIN_REDIRECT_URL = '/'
LOGOUT_REDIRECT_URL = '/login/'
```

## **crud\_example/urls.py file:-**

```
from django.contrib import admin
```

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

```
urlpatterns = [
```

```
    path('admin/', admin.site.urls),
```

```
    path("", include('records.urls')), # ← All records URLs at root
```

```
]
```

### Step 3: Create the Model

**File:** records/models.py

```
# records/models.py

from django.db import models

from django.contrib.auth.models import User

class Record(models.Model):

    user = models.ForeignKey(User, on_delete=models.CASCADE)

    name = models.CharField(max_length=100)

    city = models.CharField(max_length=100)

    phone = models.CharField(max_length=20)

    created_at = models.DateTimeField(auto_now_add=True)

    updated_at = models.DateTimeField(auto_now=True)

    def __str__(self):

        return f"{self.name} – {self.city}"

class Meta:

    ordering = ['-created_at']
```

records/forms.py file code:-

```
# records/forms.py  
from django import forms  
from django.contrib.auth.forms import UserCreationForm  
from django.contrib.auth.models import User
```

```
from .models import Record
```

```
class SignUpForm(UserCreationForm):  
    email = forms.EmailField(required=True)
```

```
class Meta:  
    model = User  
    fields = ('username', 'email', 'password1', 'password2')
```

```
class RecordForm(forms.ModelForm):  
    class Meta:  
        model = Record  
        fields = ['name', 'city', 'phone']  
        widgets = {  
            'name': forms.TextInput(attrs={'class': 'form-control'}),  
            'city': forms.TextInput(attrs={'class': 'form-control'}),  
            'phone': forms.TextInput(attrs={'class': 'form-control'}),
```

```
}
```

### records/views.py file :-

```
# records/views.py

from django.shortcuts import render, redirect, get_object_or_404
from django.contrib.auth import login, logout, authenticate
from django.contrib.auth.decorators import login_required
from django.contrib import messages

from .forms import SignUpForm, RecordForm
from .models import Record

def signup(request):
    if request.method == 'POST':
        form = SignUpForm(request.POST)

        if form.is_valid():
            user = form.save()
            login(request, user)
            messages.success(request, "Account created successfully!")
            return redirect('record_list')

        else:
            messages.error(request, "Please correct the errors below.")

    else:
        form = SignUpForm()
```

```
return render(request, 'records/signup.html', {'form': form})
```

```
def user_login(request):
```

```
    if request.method == 'POST':
```

```
        username = request.POST.get('username')
```

```
        password = request.POST.get('password')
```

```
        user = authenticate(request, username=username, password=password)
```

```
        if user is not None:
```

```
            login(request, user)
```

```
            messages.success(request, "Welcome back!")
```

```
            return redirect('record_list')
```

```
        else:
```

```
            messages.error(request, "Invalid username or password.")
```

```
    return render(request, 'records/login.html')
```

```
def user_logout(request):
```

```
    logout(request)
```

```
    messages.info(request, "You have been logged out.")
```

```
    return redirect('login')
```

```
@login_required
```

```
def record_list(request):
```

```
    records = Record.objects.filter(user=request.user)
```

```
    return render(request, 'records/record_list.html', {'records': records})
```

```
@login_required
```

```
def record_create(request):
```

```
    if request.method == 'POST':
```

```
        form = RecordForm(request.POST)
```

```
        if form.is_valid():
```

```
            record = form.save(commit=False)
```

```
            record.user = request.user
```

```
            record.save()
```

```
            messages.success(request, "Record created successfully!")
```

```
            return redirect('record_list')
```

```
    else:
```

```
        form = RecordForm()
```

```
    return render(request, 'records/record_form.html', {
```

```
        'form': form,
```

```
        'title': 'Add New Record'
```

```
    })
```

```
@login_required
```

```
def record_update(request, pk):
```

```
    record = get_object_or_404(Record, pk=pk, user=request.user)
```

```
    if request.method == 'POST':
```

```
        form = RecordForm(request.POST, instance=record)
```

```
        if form.is_valid():
```

```
            form.save()
```

```
            messages.success(request, "Record updated successfully!")
```

```
            return redirect('record_list')
```

```
    else:
```

```
        form = RecordForm(instance=record)
```

```
    return render(request, 'records/record_form.html', {
```

```
        'form': form,
```

```
        'title': 'Edit Record'
```

```
    })
```

```
@login_required
```

```
def record_delete(request, pk):
```

```
    record = get_object_or_404(Record, pk=pk, user=request.user)
```

```
    if request.method == 'POST':
```

```
        record.delete()
```

```
messages.success(request, "Record deleted successfully!")
```

```
return redirect('record_list')
```

```
return render(request, 'records/record_confirm_delete.html', {'record': record})
```

records/urls.py file:-

```
# records/urls.py
```

```
from django.urls import path
```

```
from . import views
```

```
urlpatterns = [
```

```
    path('signup/', views.signup, name='signup'),
```

```
    path('login/', views.user_login, name='login'),
```

```
    path('logout/', views.user_logout, name='logout'),
```

```
    path("", views.record_list, name='record_list'),
```

```
    path('add/', views.record_create, name='record_create'),
```

```
    path('<int:pk>/edit/', views.record_update, name='record_update'),
```

```
    path('<int:pk>/delete/', views.record_delete, name='record_delete'),
```

```
]
```

records/templates/records/base.html file:-

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <title>{% block title %}Records{% endblock %}</title>

  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet">

</head>

<body class="bg-light">

<nav class="navbar navbar-expand-lg navbar-dark bg-dark">

  <div class="container">

    <a class="navbar-brand" href="{% url 'record_list' %}">Records</a>

    <div class="navbar-nav ms-auto">

      {% if user.is_authenticated %}

        <span class="nav-link text-light">Hi, {{ user.username }}</span>

        <a class="nav-link" href="{% url 'record_create' %}">Add Record</a>

        <a class="nav-link" href="{% url 'logout' %}">Logout</a>

      {% else %}

        <a class="nav-link" href="{% url 'login' %}">Login</a>

        <a class="nav-link" href="{% url 'signup' %}">Sign Up</a>

      {% endif %}

    </div>

  </div>

</nav>
```

```
<div class="container mt-4">
  {% if messages %}
    {% for message in messages %}
      <div class="alert alert-{{ message.tags }} alert-dismissible fade show">
        {{ message }}
        <button type="button" class="btn-close" data-bs-dismiss="alert"></button>
      </div>
    {% endfor %}
  {% endif %}

  {% block content %}{% endblock %}
</div>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```

records/templates/records/record\_list.html file code:-

```
{% extends 'records/base.html' %}
```

```
{% block title %}My Records{% endblock %}
```

```
{% block content %}
```

```
<h1>My Records</h1>
```

```
{% if records %}
```

```
<table class="table table-hover table-striped">
```

```
<thead class="table-dark">
```

```
<tr>
```

```
<th>Name</th>
```

```
<th>City</th>
```

```
<th>Phone</th>
```

```
<th>Created</th>
```

```
<th>Actions</th>
```

```
</tr>
```

```
</thead>
```

```
<tbody>
```

```
{% for record in records %}
```

```
<tr>
```

```
<td>{{ record.name }}</td>
```

```
<td>{{ record.city }}</td>
```

```
<td>{{ record.phone }}</td>
```

```
<td>{{ record.created_at|date:"d M Y H:i" }}</td>
```

```

<td>
  <a href="{% url 'record_update' record.pk %}" class="btn btn-sm btn-outline-primary">Edit</a>
  <a href="{% url 'record_delete' record.pk %}" class="btn btn-sm btn-outline-danger">Delete</a>
</td>
</tr>
{% endfor %}
</tbody>
</table>
{% else %}
  <div class="alert alert-info">No records yet. <a href="{% url 'record_create' %}">Add one</a>!</div>
{% endif %}
{% endblock %}

```

records/tempaltes/records/record\_from.html file:-

```

{% extends 'records/base.html' %}
{% block title %}{{ title }}{% endblock %}

{% block content %}
<div class="row justify-content-center">
  <div class="col-md-7 col-lg-6">
    <div class="card shadow-sm">
      <div class="card-header bg-primary text-white">
        <h4 class="mb-0">{{ title }}</h4>
      </div>

```

```
<div class="card-body">
  <form method="post">
    {% csrf_token %}

    {% if form.non_field_errors %}
      <div class="alert alert-danger">
        {{ form.non_field_errors }}
      </div>
    {% endif %}

    <div class="mb-3">
      <label for="{{ form.name.id_for_label }}" class="form-label">Name</label>
      {{ form.name }}
      {% if form.name.errors %}
        <div class="text-danger small">{{ form.name.errors }}</div>
      {% endif %}
    </div>

    <div class="mb-3">
      <label for="{{ form.city.id_for_label }}" class="form-label">City</label>
      {{ form.city }}
      {% if form.city.errors %}
        <div class="text-danger small">{{ form.city.errors }}</div>
      {% endif %}
    </div>
  </form>
</div>
```

```
</div>
```

```
<div class="mb-3">
```

```
<label for="{{ form.phone.id_for_label }}" class="form-label">Phone</label>
```

```
{{ form.phone }}
```

```
{% if form.phone.errors %}
```

```
<div class="text-danger small">{{ form.phone.errors }}</div>
```

```
{% endif %}
```

```
<div class="form-text text-muted">
```

```
Example: +91 98765 43210 or 9876543210
```

```
</div>
```

```
</div>
```

```
<div class="d-grid gap-2 d-md-flex justify-content-md-end mt-4">
```

```
<a href="{% url 'record_list' %}" class="btn btn-outline-secondary">Cancel</a>
```

```
<button type="submit" class="btn btn-primary">
```

```
{% if title == "Add New Record" %}Create Record{% else %}Save Changes{% endif %}
```

```
</button>
```

```
</div>
```

```
</form>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
{% endblock %}
```

records/templates/records/record\_confirm\_delete.html file:-

```
{% extends 'records/base.html' %}
```

```
{% block title %}Delete Record{% endblock %}
```

```
{% block content %}
```

```
<div class="row justify-content-center">
```

```
<div class="col-md-6 col-lg-5">
```

```
<div class="card shadow-sm border-danger">
```

```
<div class="card-header bg-danger text-white">
```

```
<h4 class="mb-0">Confirm Deletion</h4>
```

```
</div>
```

```
<div class="card-body">
```

```
<h5 class="text-center mb-4">Are you sure you want to delete this record?</h5>
```

```
<div class="card bg-light mb-4">
```

```
<div class="card-body">
```

```
<dl class="row mb-0">
```

```
<dt class="col-sm-3">Name</dt>
```

```
<dd class="col-sm-9">{{ record.name }}</dd>
```

```
<dt class="col-sm-3">City</dt>
```

```
<dd class="col-sm-9">{{ record.city }}</dd>
```

```
<dt class="col-sm-3">Phone</dt>
```

```
<dd class="col-sm-9">{{ record.phone }}</dd>
```

```
<dt class="col-sm-3">Added</dt>
```

```
<dd class="col-sm-9">{{ record.created_at|date:"d M Y H:i" }}</dd>
```

```
</dl>
```

```
</div>
```

```
</div>
```

```
<p class="text-muted text-center mb-4">
```

```
    This action cannot be undone.
```

```
</p>
```

```
<form method="post" class="d-grid gap-2 d-md-flex justify-content-md-center">
```

```
    {% csrf_token %}
```

```
    <a href="{% url 'record_list' %}" class="btn btn-outline-secondary px-5">Cancel</a>
```

```
    <button type="submit" class="btn btn-danger px-5">Yes, Delete Record</button>
```

```
</form>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
{% endblock %}
```

## records/templates/records/login.html file code:-

```
{% extends 'records/base.html' %}

{% block title %}Login{% endblock %}

{% block content %}

<div class="row justify-content-center">

  <div class="col-md-5">

    <div class="card shadow">

      <div class="card-header bg-primary text-white">

        <h4 class="mb-0">Login</h4>

      </div>

      <div class="card-body">

        <form method="post">

          {% csrf_token %}

          <div class="mb-3">

            <label class="form-label">Username</label>

            <input type="text" name="username" class="form-control" required autofocus>

          </div>

          <div class="mb-3">

            <label class="form-label">Password</label>

            <input type="password" name="password" class="form-control" required>

          </div>

          <button type="submit" class="btn btn-primary w-100">Login</button>

        </form>

      </div>

    </div>

  </div>

</div>
```

```
</div>
</div>
</div>
{% endblock %}
```

#### records/templates/records/signup.html file :-

```
{% extends 'records/base.html' %}
{% block title %}Sign Up{% endblock %}

{% block content %}
<div class="row justify-content-center">
  <div class="col-md-6 col-lg-5">
    <div class="card shadow">
      <div class="card-header bg-success text-white">
        <h4 class="mb-0">Create Account</h4>
      </div>
      <div class="card-body">
        <form method="post">
          {% csrf_token %}

          {% if form.non_field_errors %}
            <div class="alert alert-danger alert-dismissible fade show" role="alert">
              {{ form.non_field_errors }}
            <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
          {% endif %}
        </form>
      </div>
    </div>
  </div>
</div>
{% endblock %}
```

```
</div>

{% endif %}

<div class="mb-3">

  <label for="{{ form.username.id_for_label }}" class="form-label">Username</label>

  {{ form.username }}

  {% if form.username.errors %}

    <div class="text-danger small mt-1">{{ form.username.errors }}</div>

  {% endif %}

  <div class="form-text text-muted">

    Letters, digits and @/./+/_ only.

  </div>

</div>

<div class="mb-3">

  <label for="{{ form.email.id_for_label }}" class="form-label">Email address</label>

  {{ form.email }}

  {% if form.email.errors %}

    <div class="text-danger small mt-1">{{ form.email.errors }}</div>

  {% endif %}

</div>

<div class="mb-3">

  <label for="{{ form.password1.id_for_label }}" class="form-label">Password</label>

  {{ form.password1 }}
```

```
{% if form.password1.errors %}
```

```
<div class="text-danger small mt-1">{{ form.password1.errors }}</div>
```

```
{% endif %}
```

```
<div class="form-text text-muted">
```

Your password must contain at least 8 characters and can't be too similar to your other personal information.

```
</div>
```

```
</div>
```

```
<div class="mb-4">
```

```
<label for="{{ form.password2.id_for_label }}" class="form-label">Confirm Password</label>
```

```
{{ form.password2 }}
```

```
{% if form.password2.errors %}
```

```
<div class="text-danger small mt-1">{{ form.password2.errors }}</div>
```

```
{% endif %}
```

```
</div>
```

```
<div class="d-grid">
```

```
<button type="submit" class="btn btn-success btn-lg">Sign Up</button>
```

```
</div>
```

```
</form>
```

```
<div class="text-center mt-4">
```

```
<p class="text-muted">
```

Already have an account?

```
<a href="{% url 'login' %}" class="text-primary fw-bold">Login here</a>
```

```
</p>
</div>
</div>
</div>
</div>
</div>
{% endblock %}
```

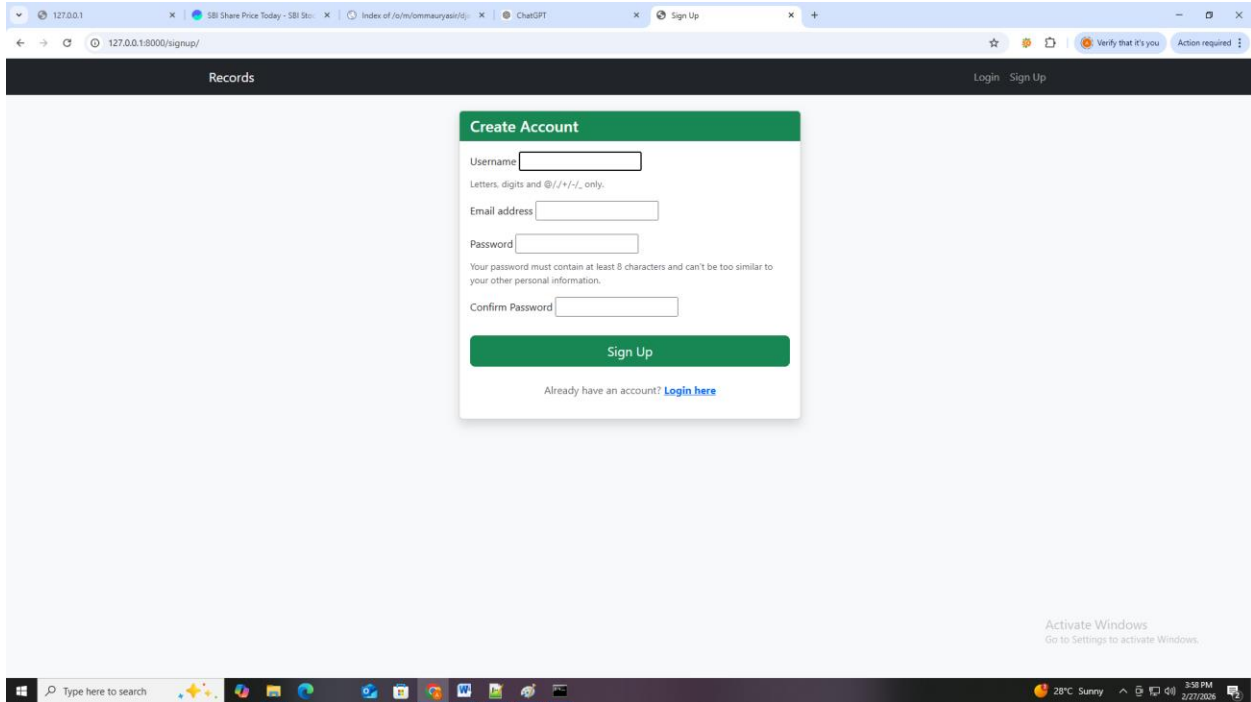
Output:-

Python manage.py runserver

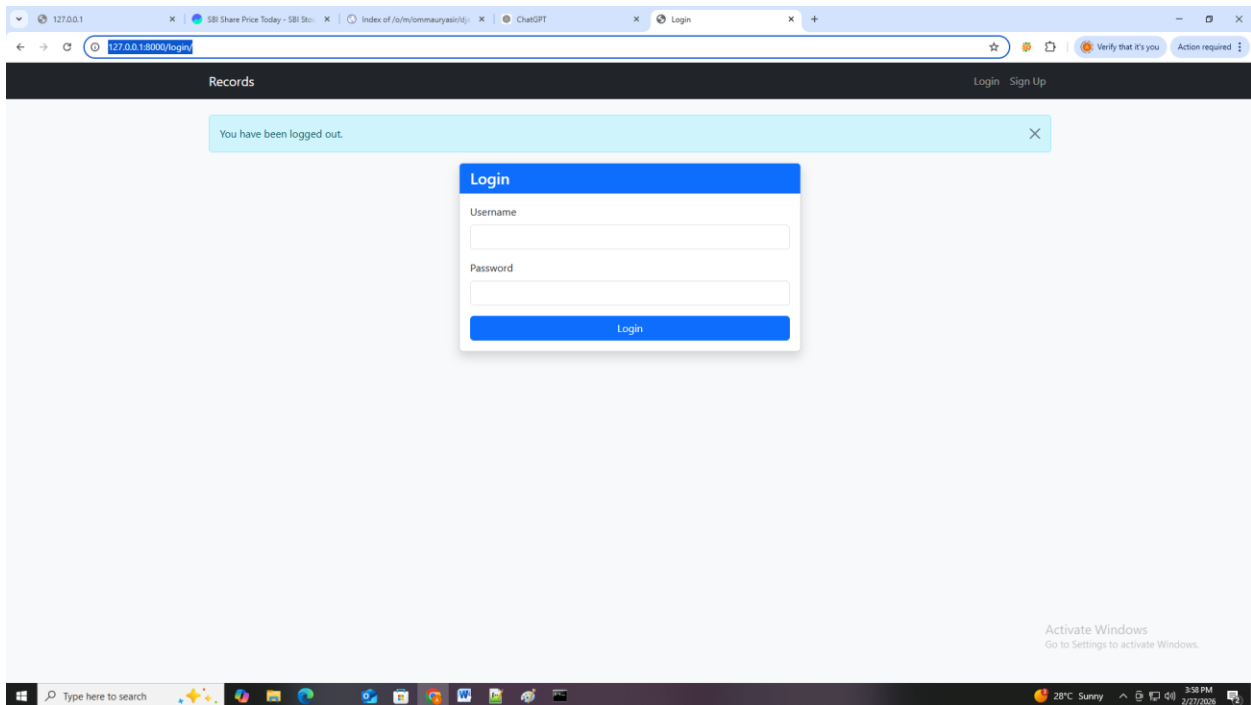
And check output :-

Signup:-

<http://127.0.0.1:8000/signup/>



<http://127.0.0.1:8000/login/>



After login you will see dashboard :-

Add record:-

<http://127.0.0.1:8000/add/>

The screenshot shows a web browser window with the URL [127.0.0.1:8000/add/](http://127.0.0.1:8000/add/). The page header includes the text "Records" on the left and "Hi, priya Add Record Logout" on the right. The main content area features a modal form titled "Add New Record" with the following fields: "Name", "City", and "Phone". Below the "Phone" field, there is an example: "Example: +91 98765 43210 or 9876543210". At the bottom of the form are two buttons: "Cancel" and "Create Record". In the bottom right corner of the page, there is a "Verify that it's you" security prompt and an "Action required" link. The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray with a temperature of 28°C and the time 4:00 PM on 2/27/2026.

The screenshot shows the "My Records" page in the same web browser. The URL is [127.0.0.1:8000/](http://127.0.0.1:8000/). The page header is identical to the previous screenshot. The main content area displays a table titled "My Records" with the following data:

Name	City	Phone	Created	Actions
om sir ji	virar	8149996597	27 Feb 2026 09:11	<a href="#">Edit</a> <a href="#">Delete</a>

At the bottom right of the page, there is a "Verify that it's you" security prompt and an "Action required" link. The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray with a temperature of 28°C and the time 3:57 PM on 2/27/2026.