



## **Django API With React JS**

ID	City	State	Country	Actions 🧪 🛚
1	Sakri	Maharashtra_state	India	Update ♪ Delete ☒
2	Dhule	Maharashtra	India	Update ♪ Delete ■
7	New York	US	America	Update ♪ Delete ▼
9	Amalner_now	Maharashtra	India	Update ♪ Delete ■
20	Nagpur	Maharashtra	India	Update ♪ Delete ■
21	Ahmadnagar	Maharashtra	India	Update ♪ Delete ☑
22	Sangamner	Maharashtra	India	Update ♪ Delete ▼





























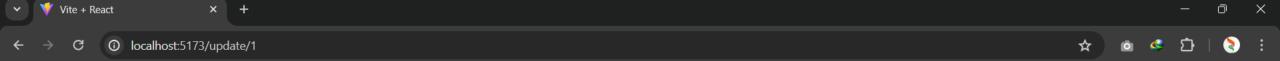












All Records **Create Record** 

































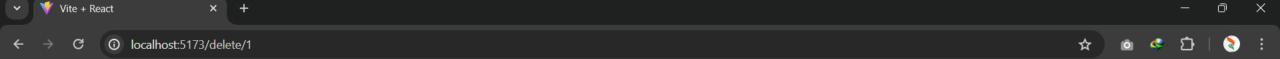












All Records **Create Record** 





































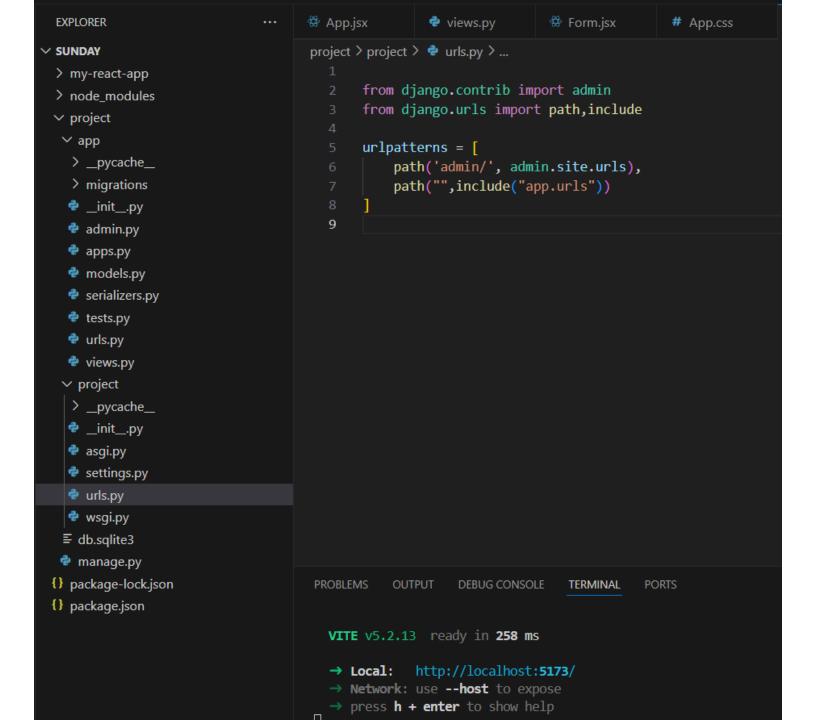


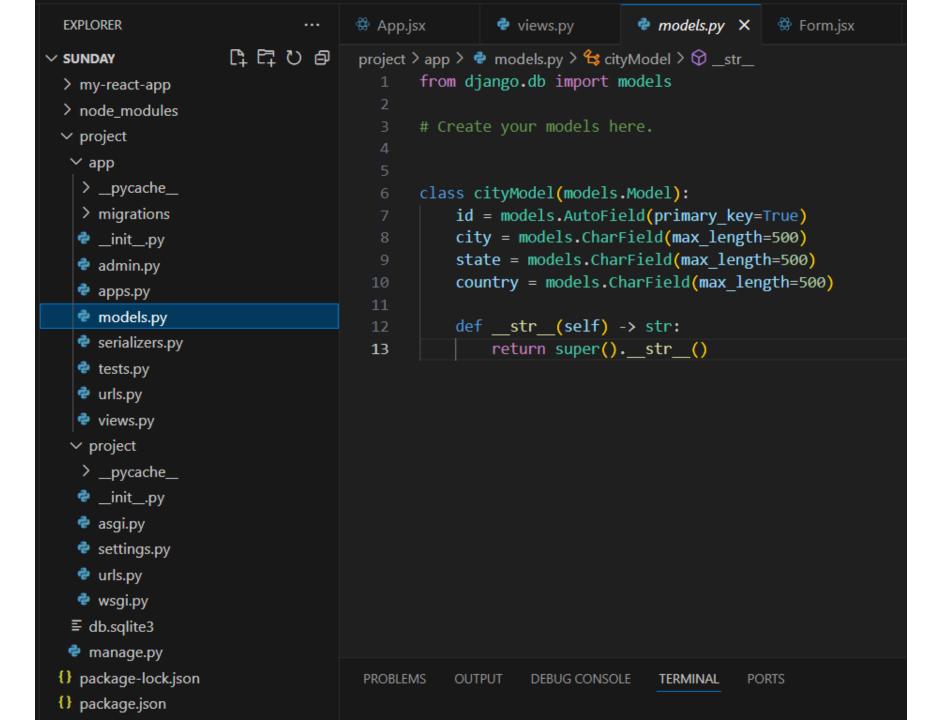


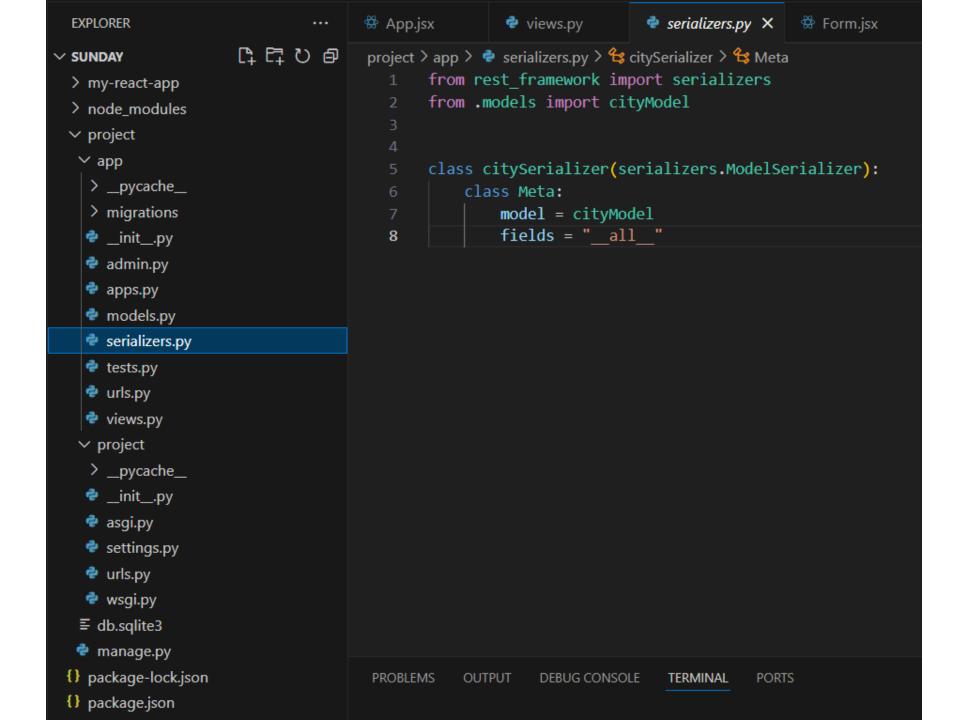


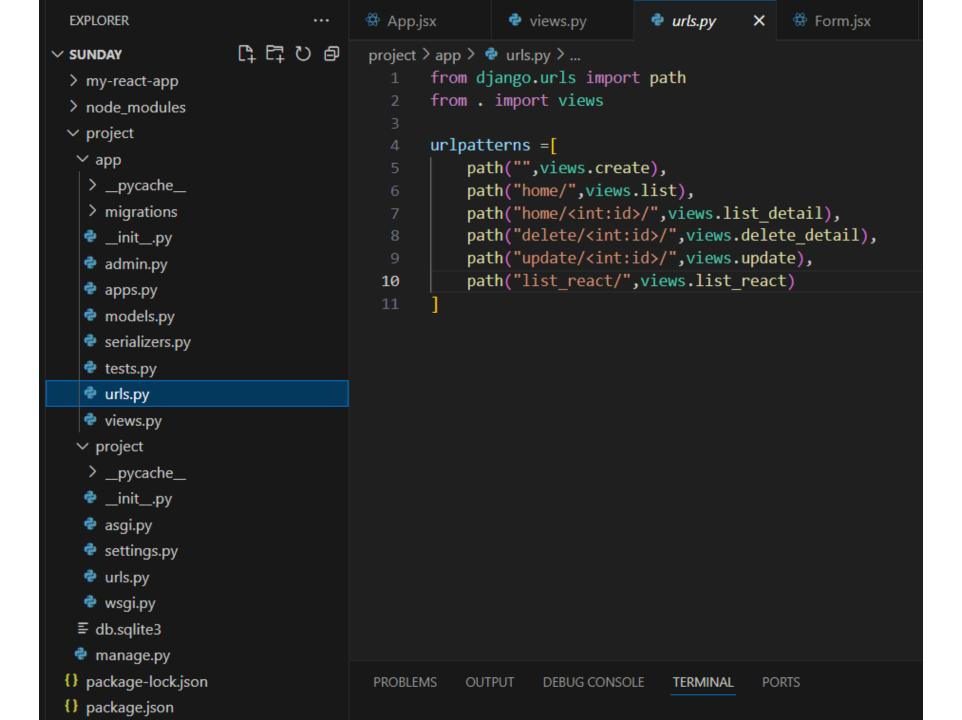
## Backend "Django REST API" Configuration

```
settings.py
INSTALLED APPS = [
    'app',
    'rest_framework',
    'corsheaders',
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'corsheaders.middleware.CorsMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
# Database
# https://docs.djangoproject.com/en/5.0/ref/settings/#databases
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': BASE_DIR / 'db.sqlite3',
# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/5.0/howto/static-files/
STATIC URL = '/static/'
CORS ORIGIN ALLOW ALL=True
# Default primary key field type
# https://docs.djangoproject.com/en/5.0/ref/settings/#default-auto-field
DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'
```









```
EXPLORER
                                  App.jsx
                                                 Form.jsx
                                                                                                 # App.css
                                                                                                                 GetDjango.jsx
                                                                                                                                   UpdateForm.jsx
                                                                                                                                                       DeleteForm.jsx
∨ SUNDAY
                                  project > app > 💠 views.py > ...
                                         from django.shortcuts import get_object_or_404, redirect, render
 > my-react-app
                                         from .models import cityModel
 > node_modules
                                         from .serializers import citySerializer
 project
                                         from rest_framework.response import Response

✓ app
                                         from rest_framework.decorators import api_view
  > __pycache__
   > migrations
                                        # new record
   __init__py
                                         @api_view(['POST'])
   admin.py
                                        def create(request):
   apps.py
                                             if request.method == "POST" or None:
   models.py
                                                 serializer = citySerializer(data=request.data)
  serializers.py
                                                 if serializer.is valid():
   tests.py
                                                     serializer.save()
                                                     return Response(serializer.data)
   urls.py
                                                 return Response(serializer.errors)
  views.py

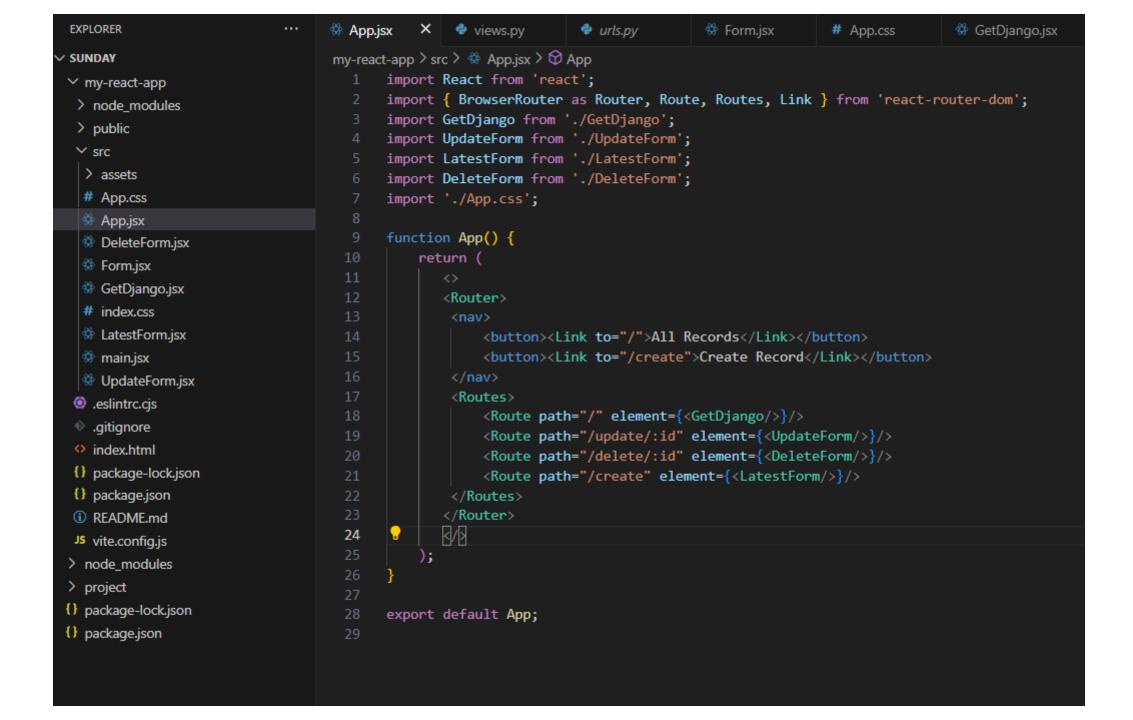
∨ project

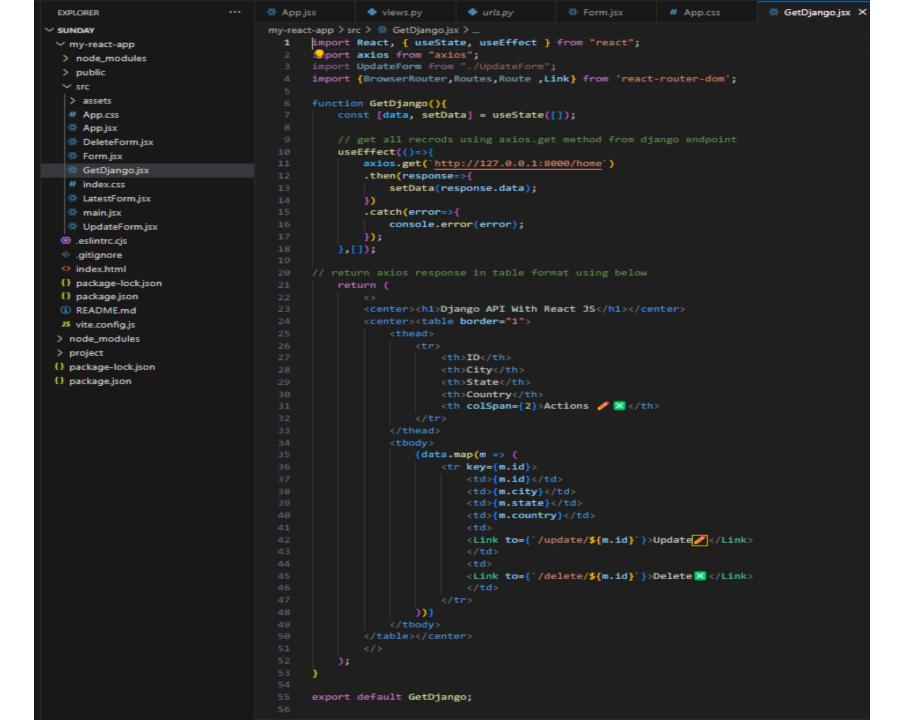
                                         @api_view(['GET'])
   > _pycache_
                                         def list(request):
  _init__py
                                             instance = cityModel.objects.all()
  asgi.py
                                             serializer = citySerializer(instance=instance,many=True)
  settings.py
                                             return Response(serializer.data)
  urls.py
                                         @api_view(['GET'])
  wsgi.py
                                         def list_react(request):

■ db.sqlite3

                                             instance = cityModel.objects.all()
 manage.py
                                             serializer = citySerializer(instance=instance,many=True)
() package-lock.json
                                             output = []
() package.json
                                             for i in serializer.data:
                                                 output.append(i)
                                             return Response({"message":output})
                                         @api_view(['GET'])
                                         def list_detail(request,id):
                                             instance = get_object_or_404(cityModel,id=id)
                                             serializer = citySerializer(instance=instance)
                                             if serializer is not None:
                                                 return Response(serializer.data)
                                   39
                                         @api view(['DELETE'])
                                         def delete_detail(request,id):
                                             instance = get_object_or_404(cityModel,id=id)
                                             if instance is not None:
                                                     instance.delete()
                                                     return Response({"data": "Record Deleted Successfully."})
                                         @api_view(['PUT','GET'])
                                         def update(request,id):
                                            instance = get object or 404(cityModel,id=id)
                                            serializer = citySerializer(instance=instance,data=request.data)
                                            if serializer.is_valid():
                                                serializer.save()
                                                return Response(serializer.data)
                                                serializer = citySerializer(instance=instance)
                                                return Response(serializer.data)
```

## Frontend "React JS" Configuration





```
EXPLORER
                                                                                  Form.jsx
                                                                                                  # App.css
                                                                                                                                     ♥ UpdateForm.jsx
                                  App.jsx
                                                  views.py
                                                                  urls.py

✓ SUNDAY

                                   my-react-app > src >  LatestForm.jsx > ...
                                         import React, { useState } from "react";

✓ my-react-app

                                          port axios from 'axios';
  > node modules
                                         import { useNavigate } from "react-router-dom";
  > public

✓ src

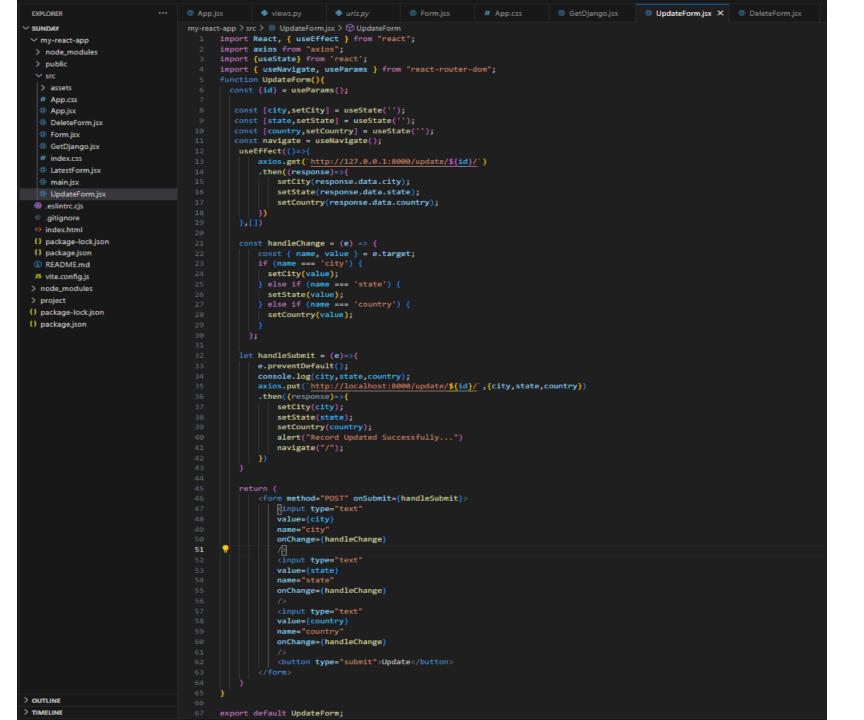
                                         function LatestForm(){
   assets
                                             const [city,setCity] = useState("");
   # App.css
                                             const [state,setState] = useState("");
                                             const [country, setCountry] = useState("");
   App.jsx
                                             const navigate = useNavigate();
   DeleteForm.jsx

♠ Form.jsx

                                             // function to perform new record creation
  GetDjango.jsx
                                         const handleSubmit=(event)=>{
   # index.css
                                             event.preventDefault();
  LatestForm.jsx
                                             axios.post(`http://127.0.0.1:8000/`,{city,state,country})
   main.jsx
                                              .then(response=>{
                                                  alert("data has been registered on database.")
  ♥ UpdateForm.jsx
                                                 navigate("/");
 eslintrc.cjs
                                              })
 gitignore
                                             .catch(error=>{
 index.html
                                                  console.error(error);
 {} package-lock.json
                                             });
 {} package.json

    README.md

                                           // form to create new record using post method
 JS vite.config.js
                                           return (
> node modules
> project
                                             <form method="POST" onSubmit={handleSubmit}>
{} package-lock.json
                                               <input type="text" placeholder='city' value={city} onChange={e=>setCity(e.target.value)}/><br/>>
{} package.json
                                               <input type="text" placeholder='state' value={state} onChange={e=>setState(e.target.value)} /><br/>
                                               <input type="text" placeholder='country' value={country} onChange={e=>setCountry(e.target.value)} />
                                               <button type="submit">Submit
                                             </form>
                                         export default LatestForm;
```



```
EXPLORER
                                  App.jsx
                                                  views.py
                                                                   urls.py
                                                                                   Form.jsx
                                                                                                    # App.css
                                                                                                                    GetDjango.jsx
                                                                                                                                       UpdateForm.jsx
SUNDAY
                                  my-react-app > src > @ DeleteForm.jsx > ...
                                         import React, { useEffect } from "react";
∨ my-react-app
                                          mport axios from "axios";
 > node_modules
                                         import {useState} from 'react';
 > public
                                         import { useParams,useNavigate } from "react-router-dom";

✓ src

                                         function UpdateForm(){
  > assets
                                           const {id} = useParams();
  # App.css
                                            const [city,setCity] = useState('');
  App.jsx
                                            const [state, setState] = useState('');
  DeleteForm.jsx
                                            const [country,setCountry] = useState('');
  Form.jsx
                                            const navigate = useNavigate();
  GetDjango.jsx
                                             // getting data from below link from django bakend with id on react js delete form
  # index.css
                                             useEffect(()=>{
  LatestForm.jsx
                                                  axios.get(`http://127.0.0.1:8000/home/${id}/`)
  🥰 main.jsx
                                                  .then((response)=>{
                                                      setCity(response.data.city);
 UpdateForm.jsx
                                                      setState(response.data.state);
 eslintrc.cjs
                                                      setCountry(response.data.country);
 .gitignore
 index.html
 {} package-lock.json
{} package.json
                                             // on submitting post form it will redirect to django endpoint for delete and record will get deleted.

 README.md

                                              let handleSubmit = (e)=>{
                                                  e.preventDefault();
 JS vite.config.js
                                                  console.log(city,state,country);
> node_modules
                                                  axios.delete(`http://localhost:8000/delete/${id}/`,{city,state,country})
> project
                                                  .then((response)=>{
{} package-lock.json
                                                     alert("data has been deleted.")
{} package.json
                                                     navigate("/");
                                             // form to retrieve and delete data
                                              return (
                                                  <form method="POST" onSubmit={handleSubmit}>
                                                      <input type="text"</pre>
                                                      value={city}
                                                      name="city"
                                                      <input type="text"</pre>
                                                      value={state}
                                                      name="state"
                                                      <input type="text"</pre>
                                                      value={country}
                                                      name="country"
                                                      <button type="submit">Delete</button>
                                         export default UpdateForm;
```

