#### MediTrack Vaccination Management System



#### **Team Members**



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Track vaccinations, send SMS reminders, and ensure data security at the same time.

#### Introduction



Facilitate Users
(Parents/People with Child)



**Key Features:** 

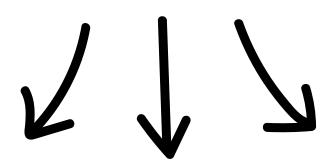
- Role-based Access
   (Only for Admin(Superuser))
- SMS Reminders

#### **How the System Works?**

#### Admin



Manages (View/Add/Delete)









**Tools Used in This Project** 

• IDE (Integrated Development Environment)



#### Frontend









#### **Tech Stack**

#### Backend







#### Database



#### **Initial Steps**

- Installed Python, Python interpreter, and Django using the command: pip install django.
- Initialized a new Django project named VaccineMgmt using the command: django-admin startproject VaccineMgmt.
- Navigated into the project directory and created a new app named vaccine using the command: python manage.py startapp vaccine.
- Opened the project folder in PyCharm for development.
- Started the development server using the command: python manage.py runserver.

## MVT in Django

- Model handles data.
- View handles logic.
- Template handles presentation.

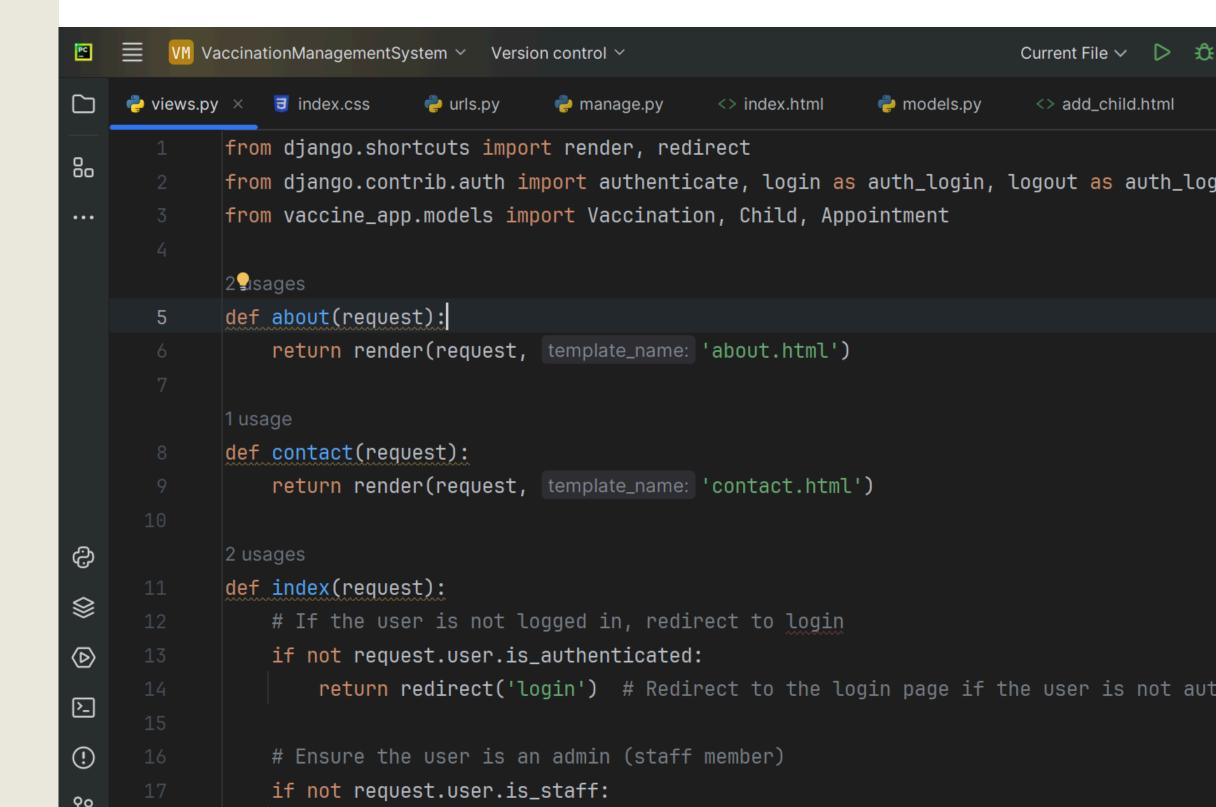
#### models.py

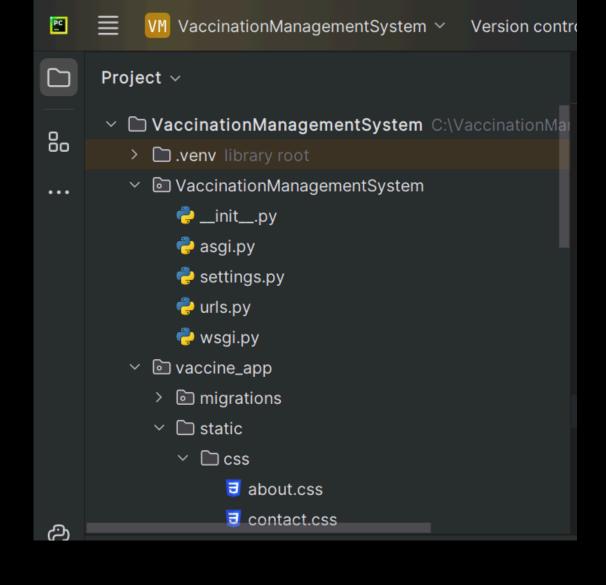
• Where we define the structure of our database tables using Python classes.

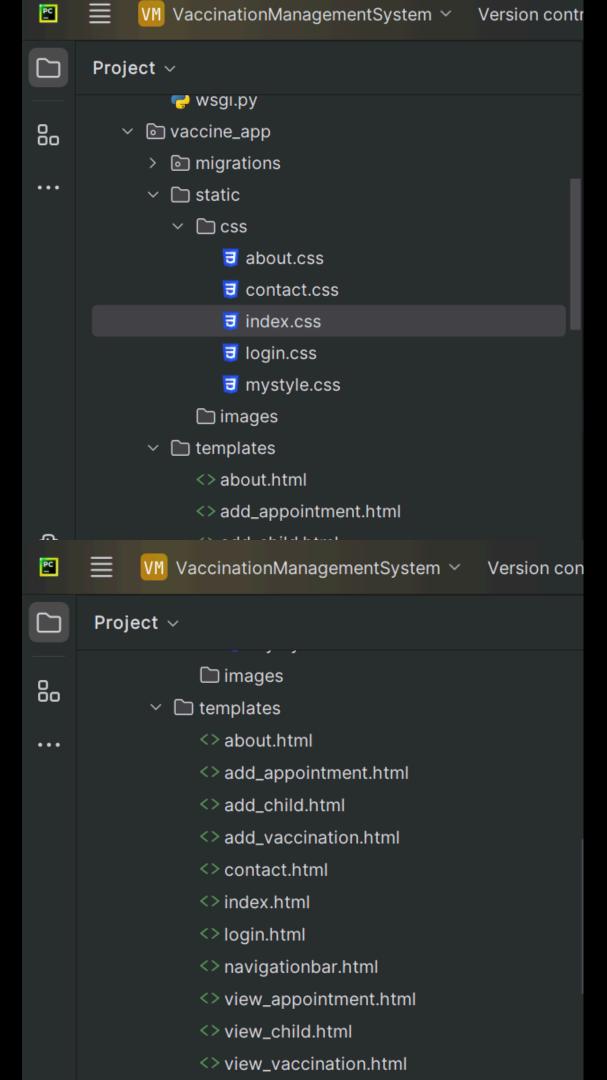
```
from django.db import models
80
            from datetime import time
            9 usages
            class Child(models.Model):
                full_name = models.CharField(max_length=100)
                date_of_birth = models.DateField()
                gender = models.CharField(max_length=10)
                parent_name = models.CharField(max_length=100)
                contact_number = models.CharField(max_length=20)
                email = models.EmailField(blank=True, null=True)
                address = models.CharField(max_length=200)
                medical_notes = models.CharField(max_length=200, blank=True)
```

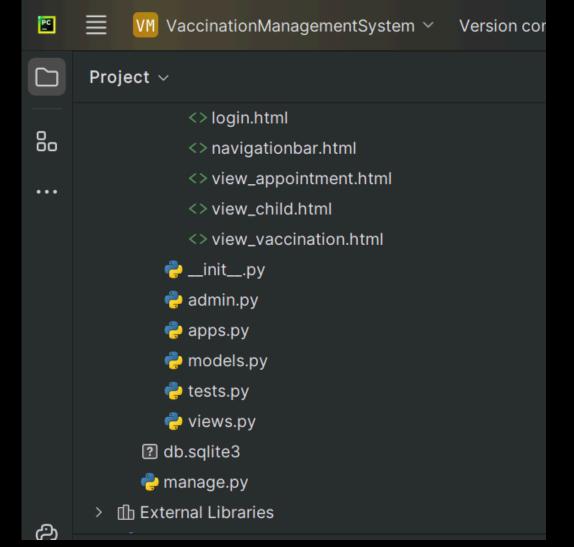
### views.py

• Contains the functions or classes that handle what happens when a user visits a specific URL.









## urls.py

- Maps URLs to views.
- Defines the routes that users can access in the browser and tells Django which function or class should handle each request.

```
index.css
                  🗬 urls.py × <> index.html
                                           models.py
                                                         <> add_child.html
from django.contrib import admin
from django.urls import path
import vaccine_app
from vaccine_app import views
from vaccine_app.views import about, index, admin_login, logout_view
urlpatterns = [
    path('admin/', admin.site.urls),
    path('about/', about, name='about'),
    path('', index, name='home'), # Home page (admin dashboard)
    path('login/', admin_login, name='login'),
    path('contact/', vaccine_app.views.contact, name='contact'),
    path('logout/', logout_view, name='logout'), # Updated the name to `logout_view`
    path('view_vaccination/', vaccine_app.views.vaccination, name='view_vaccination'),
    path('add_vaccination/', views.add_vaccination, name='add_vaccination'),
    path('delete_vaccination/<int:pid>/', views.delete_vaccination, name='delete_vaccination'),
    path('add_child/', views.add_child, name='add_child'),
    path('view_child/', views.view_child, name='view_child'),
    path('add_appointment/', views.add_appointment, name='add_appointment'),
    path('view_appointment/', views.view_appointment, name='view_appointment'),
```

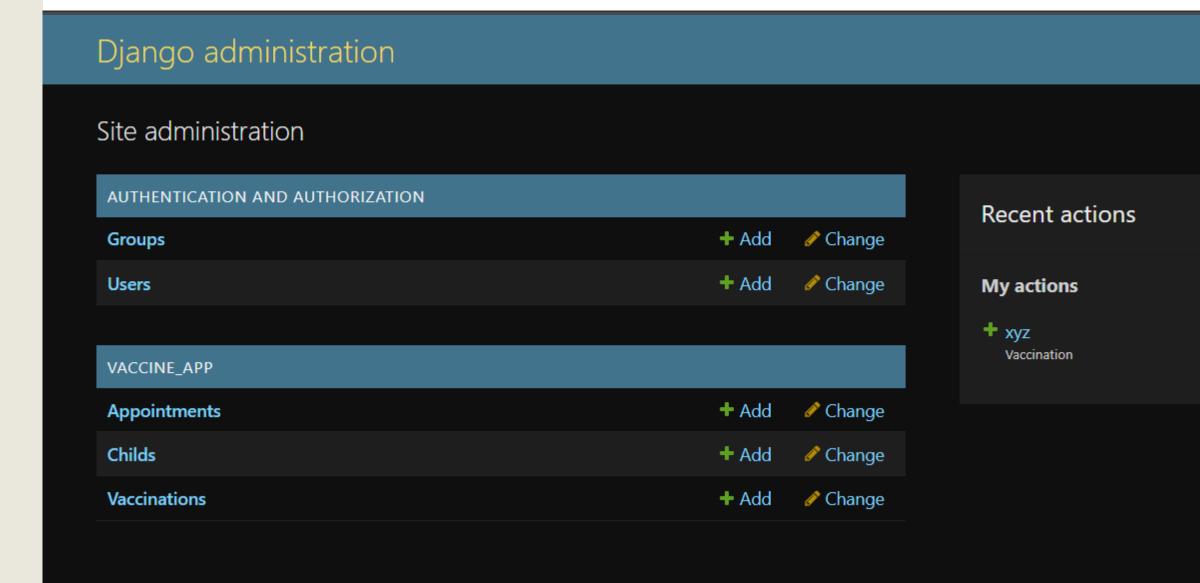
## **Creating Superuser**

## Deleting Superuser

- python manage.py createsuperuser --username satkarkhadka --email satkar@example.com
- Asks for Password
- Can Login
- Manage the system
- python manage.py shell
- from django.contrib.auth.models import User
- User.objects.filter(username='old\_username').delete()

# Working with Database Using Terminal

- python manage.py shell
- from vaccine\_app.models import Child, Vaccination, Appoinment
- Child.objects.all(), Child.objects.all().delete()
- a = Child(full\_name="Ashutosh")
- a.save()
- a.name, a.contact\_number



#### **Twilio Setup**

