

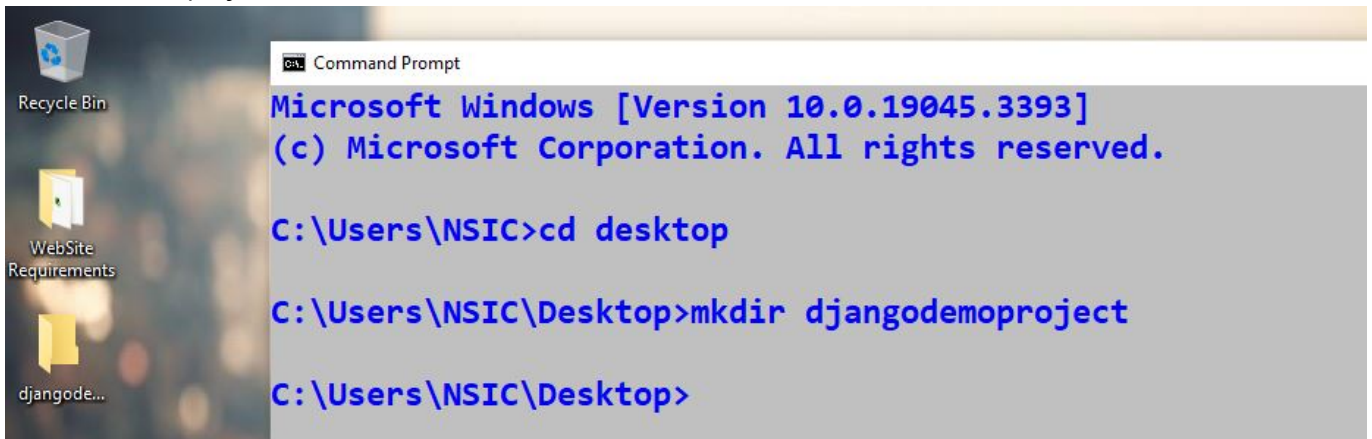
Program 14 - Django Student Management

AIM

To develop a student management system backend using Django, allowing users to register, login, and access information through a clean and basic Canvas-style UI.

DESCRIPTION

This experiment demonstrates how to build a basic web application using Django. The project implements user authentication (register and login), and basic navigation through pages like Home, About, and Contact. It showcases Django concepts like URL routing, views, templates, and static file management. This project is ideal for beginners to learn the fundamentals of Django web development including template rendering, view functions, and project structure.



```
C:\Users\NSIC\Desktop>mkdir.djangodemoproject
```

```
C:\Users\NSIC\Desktop>cd.djangodemoproject
```

```
C:\Users\NSIC\Desktop\djangodemoproject>pip install virtualenv
```

```
C:\Users\NSIC\Desktop\djangodemoproject>virtualenv virdemo
```

```
C:\Users\NSIC\Desktop\djangodemoproject>cd virdemo
```

```
C:\Users\NSIC\Desktop\djangodemoproject\virdemo>
```

```
C:\Users\NSIC\Desktop\djangodemoproject\virdemo>cd scripts
```

```
C:\Users\NSIC\Desktop\djangodemoproject\virdemo\Scripts>activate
```

```
(virdemo) C:\Users\NSIC\Desktop\djangodemoproject\virdemo\Scripts>deactivate
```

```
C:\Users\NSIC\Desktop\djangodemoproject\virdemo\Scripts>activate
```

```
(virdemo) C:\Users\NSIC\Desktop\djangodemoproject\virdemo\Scripts>
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```
C:\Users\NSIC\Desktop\djangoemoproject\virdemo\Scripts>activate

(virdemo) C:\Users\NSIC\Desktop\djangoemoproject\virdemo\Scripts>deactivate
C:\Users\NSIC\Desktop\djangoemoproject\virdemo\Scripts>activate

(virdemo) C:\Users\NSIC\Desktop\djangoemoproject\virdemo\Scripts>cd..

(virdemo) C:\Users\NSIC\Desktop\djangoemoproject\virdemo>

(virdemo) C:\Users\NSIC\Desktop\djangoemoproject\virdemo>pip install django

(virdemo) C:\Users\NSIC\Desktop\djangoemoproject\virdemo>django-admin start
project projdemo

(virdemo) C:\Users\NSIC\Desktop\djangoemoproject\virdemo>cd projdemo

(virdemo) C:\Users\NSIC\Desktop\djangoemoproject\virdemo\projdemo>

(virdemo) C:\Users\NSIC\Desktop\djangoemoproject\virdemo>django-admin startp
roject projdemo

(virdemo) C:\Users\NSIC\Desktop\djangoemoproject\virdemo>cd projdemo

(virdemo) C:\Users\NSIC\Desktop\djangoemoproject\virdemo\projdemo>django-adm
in startapp appdemo

(virdemo) C:\Users\NSIC\Desktop\djangoemoproject\virdemo\projdemo>
```

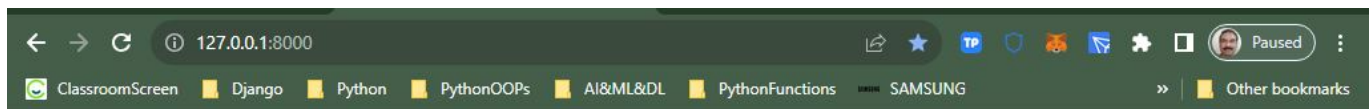


```
(virdemo) C:\Users\NSIC\Desktop\djangodemoproject\virdemo\projdemo>django-admin startapp appdemo

(virdemo) C:\Users\NSIC\Desktop\djangodemoproject\virdemo\projdemo>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).

You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations for app(s): admin, auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.
September 14, 2023 - 11:27:59
Django version 3.2.21, using settings 'projdemo.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```



django

View [release notes](#) for Django 3.2



The install worked successfully! Congratulations!

You are seeing this page because `DEBUG=True` is in your settings file and you have not configured any URLs.



Django Documentation

Topics, references, & how-to's



Tutorial: A Polling App

Get started with Django



Django Community

Connect, get help, or contribute

PROJECT STRUCTURE

```
student_mgmt/ | — core/ | | — views.py # Contains views for all pages | | — urls.py # App URL routing
| — templates/ | | — base.html # Base template with common UI elements | | — home.html # Home
page template | | — about.html # About page template | | — contact.html # Contact page template |
| — login.html # Login page template | | — register.html # Registration page template | —
student_mgmt/ | | — settings.py # Project settings including installed apps and templates | | — urls.py #
```

Project-level URL routing |—— db.sqlite3 # SQLite database file |—— manage.py # Django project management script |—— README.md # Project documentation

INSTALLATION & SETUP PREREQUISITES

- Python 3.x
- Django 5.2
- VS Code or any preferred code editor
- Basic knowledge of Python and Django framework

STEPS TO RUN THE PROJECT

1.Clone the repository (or create the project and app as per instructions)

git clone cd student_mgmt

2.Create a virtual environment and activate it (optional but recommended) python -m venv venv source venv/bin/activate # Linux/Mac venv\Scripts\activate # Windows

3.Install Django pip install django==5.2

4.Run migrations python manage.py migrate

5.Create a superuser (optional, for admin access) python manage.py createsuperuser

6.Run the development server python manage.py runserver

7.Open the app in your browser Visit: <http://127.0.0.1:8000/>

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