**Creating a simple "To-Do List" application with Django**

**Step 1: Set Up a Django Project**:

Create a new Django project and a new app within the project execute below code in terminal or CMD.

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| --- |
| django-admin startproject todolist\_project  cd todolist\_project  python manage.py startapp todolist |

**Step 2: Define app name in projects setting.py file installed apps list:**

|  |
| --- |
| INSTALLED\_APPS = [  # Other names  'todolist',  ] |

**Step 3: Define Models**:

Edit **todolist/models.py** to define the models for To-Do list. In this example, we'll have a single model for tasks.

|  |
| --- |
| # todolist/models.py  from django.db import models  class Task(models.Model):  title = models.CharField(max\_length=200)  completed = models.BooleanField(default=False)  def \_\_str\_\_(self):  return self.title |

**Step 4: Create Database Tables:**

Run migrations to create the database tables for the models:

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| --- |
| python manage.py makemigrations  python manage.py migrate |

**Step 5: Create Views:**

Now, create views for the To-Do list app. Edit **todolist/views.py**:

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| --- |
| # todolist/views.py  from django.shortcuts import render  from .models import Task  def task\_list(request):  tasks = Task.objects.all()  return render(request, 'todolist/task\_list.html', {'tasks': tasks}) |

**Step 6: Create Templates:**

Create an HTML template for displaying the task list. Create a directory named **templates** in the **todolist** app's directory, and inside it, create a file named **task\_list.html**.

**todolist/templates/todolist/task\_list.html**

**task\_list.html** contain below code:

|  |
| --- |
| <!-- todolist/templates/todolist/task\_list.html -->  <!DOCTYPE html>  <html>  <head>  <title>Task List</title>  <style>  body {  font-family: Arial, sans-serif;  background-color: #f0f0f0;  margin: 0;  padding: 0;  }  h1 {  text-align: center;  color: #333;  margin: 20px 0;  }  ul {  list-style-type: none;  padding: 0;  margin: 0;  }  li {  background-color: #fff;  border: 1px solid #ddd;  margin: 5px 0;  padding: 5px;  border-radius: 5px;  }  </style>  </head>  <body>  <h1>Task List</h1>  <ul>  {% for task in tasks %}  <li>{{ task.title }}</li>  {% empty %}  <li>No tasks available</li>  {% endfor %}  </ul>  </body>  </html> |

**Step 7: Define URLs:**

Create URL patterns for the app by creating **urls.py** file in todolist folder:

|  |
| --- |
| # todolist/urls.py  from django.urls import path  from . import views  urlpatterns = [  path('', views.task\_list, name='task\_list'),  ] |

**Step 8: Include App URLs in Project URLs:**

In your project's **urls.py**, include the URLs from the app:

|  |
| --- |
| # todolist\_project/urls.py  from django.contrib import admin  from django.urls import path, include  urlpatterns = [  path('admin/', admin.site.urls),  path('todolist/', include('todolist.urls')),  ] |

**Step 9: Run the Development Server:**

You can now start the Django development server:

|  |
| --- |
| python manage.py runserver |

Visit **http://127.0.0.1:8000/todolist/** in your web browser, and you should see your To-Do list.