

# How To Create Dynamic Web Pages

Dynamic web pages change content based on user interactions or other factors, providing a more interactive experience than static pages. Django, a Python web framework, makes it easy to create these pages. Here's a quick guide:

## Steps to Create Dynamic Web Pages in Django

### 1. Install Django:

- Install Python.
- Install Django with `pip install django`.

### 2. Create a Django Project:

- Run `django-admin startproject myproject`.
- Navigate to the project directory: `cd myproject`.
- Start the server: `python manage.py runserver`.

### 3. Create a Django App:

- Run `python manage.py startapp myapp`.
- Add `'myapp'` to `INSTALLED_APPS` in `myproject/settings.py`.

### 4. Create a View:

- In `myapp/views.py`, create a simple view:

```
from django.http import HttpResponse
```

```
def home(request):
```

```
    return HttpResponse("Hello, this is a dynamic web page!")
```

### 5. Map the URL:

- Create `myapp/urls.py` and map the view:

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

```
from . import views
```

```
urlpatterns = [  
    path('', views.home, name='home'),  
]
```

- Include app URLs in `myproject/urls.py`:

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

```
urlpatterns = [  
    path('', include('myapp.urls')),  
]
```

### 6. Use Templates for Dynamic Content:

- Create a `templates` folder in `myapp` and add `index.html`:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Dynamic Page</title>
</head>
<body>
  <h1>{{ message }}</h1>
</body>
</html>
```

- Update the view to use the template:

```
from django.shortcuts import render
```

```
def home(request):
```

```
    context = {'message': 'Hello, this is a dynamic web page with a template!'}
```

```
    return render(request, 'index.html', context)
```

By following these steps, you can create dynamic web pages in Django, making your web application interactive and responsive.