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User Accounts

We will see how to manage users, Django already ships with a robust user authentication system, plus the implementation is also easy.

New Project

Let's start with a blank slate, create a new project called 'users_project' and within the project create two apps 'pages' and 'users'

'pages' app will serve our regular home page, while 'users' app will handle user management.

```
$ mkdir users
$ cd users
$ pipenv install django
$ pipenv shell
$ django-admin startproject users_project .
$ python manage.py startapp pages
$ python manage.py startapp users
```

Register the app in project settings -

```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'pages.apps.PagesConfig', # new
    'users.apps.UsersConfig' # new
]
```

And finally complete our migrations

```
$ python manage.py migrate
```

Basic Setup

Let's add our templates and add bootstrap for our basic styling.

As Django provides all the necessary models and urls, we can simply create our views and templates.

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User Signup

We don't require any views for login, authenticate & logout, we just use the default Django functionality, however we need to create a view for user sign up.

We define a custom flow to sign up users -

- 1. Get user sign up data
- 2. Create user
- 3. Authenticate and login the user
- 4. Redirect to our home page

It's not necessary to always follow this work flow, you can always create a custom work flow depending on the project requirements.

```
from django.shortcuts import render, redirect
from django.contrib.auth.forms import UserCreationForm
from django.contrib.auth import authenticate, login
def sign up(request):
    # Check request method
    if request.method == 'POST':
        form = UserCreationForm(request.POST)
        # Check for form validity
        if form.is valid():
            # Save user
            form.save()
            # Get user credentials
            username = form.cleaned_data.get('username')
            raw_password = form.cleaned_data.get('password1')
            # Authenticate user
            user = authenticate(request, username=username,
password=raw password)
            if user is not None:
                print(f'User: {username}\tPassword: {raw_password}')
                # Login user
                login(request, user)
                return redirect('home')
    else:
        form = UserCreationForm()
    context = {
        'form': form
    return render(request, 'registration/signup.html', context)
```

Rest we plug in all the built-in urls and views offered by Django.