Django Allauth Setup Notes (Email + Social Login)

1️⃣ Project & App তৈরি

```
django-admin startproject myproject
cd myproject
python manage.py startapp main
```

- **myproject** → Project - **main** → App

2️⃣ Install Django Allauth

```
pip install django-allauth
```

3️⃣ settings.py পরিবর্তন

INSTALLED_APPS

```
'django.contrib.sites',  # Required
'main',  # Your app
'allauth',
'allauth.account',
'allauth.socialaccount',
'allauth.socialaccount.providers.google',
'allauth.socialaccount.providers.facebook',
'allauth.socialaccount.providers.github',
```

Other Settings

```
SITE_ID = 1

AUTHENTICATION_BACKENDS = (
    'django.contrib.auth.backends.ModelBackend',
    'allauth.account.auth_backends.AuthenticationBackend',
)

ACCOUNT_EMAIL_REQUIRED = True
```

```
ACCOUNT_USERNAME_REQUIRED = False
ACCOUNT_AUTHENTICATION_METHOD = 'email'
ACCOUNT_EMAIL_VERIFICATION = 'mandatory'

LOGIN_REDIRECT_URL = '/'
LOGOUT_REDIRECT_URL = '/accounts/login/'

EMAIL_BACKEND = 'django.core.mail.backends.console.EmailBackend'
```

4 URL Configuration

myproject/urls.py

```
path('accounts/', include('allauth.urls')),  # Allauth URLs
path('', include('main.urls')),  # App URLs
```

main/urls.py

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

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

main/views.py

```
from django.shortcuts import render
from django.contrib.auth.decorators import login_required

@login_required
def home(request):
    return render(request, 'main/home.html')
```

5 Templates

signup.html – Email + Social signup

```
<form method="POST" action="{% url 'account_signup' %}">
    {% csrf_token %}
    {{ form.email }}
    {{ form.password1 }}
    {{ form.password2 }}
    <button type="submit">Sign Up</button>
</form>

<p>Or sign up with:</p>
{% providers_media_js %}
{% for provider in socialaccount_providers %}
    <a href="{% provider_login_url provider.id %}">{{ provider.name }}</a>
{% endfor %}
```

login.html – Email + Social login

```
<form method="POST" action="{% url 'account_login' %}">
    {% csrf_token %}
    {{ form.login }}
    {{ form.password }}
    <button type="submit">Login</button>
</form>

<p>Or login with:</p>
{% providers_media_js %}
{% for provider in socialaccount_providers %}
    <a href="{% provider_login_url provider.id %}">{{ provider.name }}</a>
{% endfor %}
```

home.html – Protected page

```
<h1>Welcome, {{ user.email }}</h1>
<a href="{% url 'account_logout' %}">Logout</a>
```

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6 Database Migrate

```
python manage.py makemigrations
python manage.py migrate
```

7️⃣ Superuser তৈরি

```
python manage.py createsuperuser
```

- Admin → Sites → example.com / localhost: `8 0 0 0` - Admin → Social Applications → Google/Facebook/GitHub Client ID & Secret যোগ করুন

8️⃣ Run Server

```
python manage.py runserver
```

- Visit: [http:// 1 2 7 . 0 . 0 . 1 : 8 0 0 0 /accounts/signup/](http://127.0.0.1:8000/accounts/signup/)

✅ Features Covered

- Email signup/login
- Email verification
- Password reset/change
- Social login (Google, Facebook, GitHub)
- Logout
- Protected home page