

## Step-by-Step Demo (With Actions & Proof)

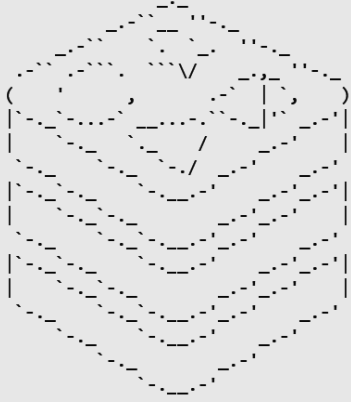
### STEP 1: Run All Required Services

#### A. Run Redis

In a terminal:

**redis-server**

```
PS D:\django-project> redis-server
[11620] 25 Jun 14:24:03.304 # Warning: no config file specified, using the default config.
In order to specify a config file use D:\Redis\redis-server.exe /path/to/redis.conf
```



```
Redis 3.0.504 (00000000/0) 64 bit

Running in standalone mode
Port: 6379
PID: 11620

http://redis.io

[11620] 25 Jun 14:24:03.317 # Server started, Redis version 3.0.504
[11620] 25 Jun 14:24:03.317 * The server is now ready to accept connections on port 6379
```

**Screenshot: redis\_running.png**

#### B. Run Celery Worker

In a second terminal:

**celery -A internship\_project worker --loglevel=info**

```

PS D:\django-project> celery -A internship_project worker --loglevel=info

----- celery@AlimsComputer v5.5.3 (immunity)
--- ***** ---
-- ***** --- Windows-10-10.0.22621-SP0 2025-06-25 14:25:24
- *** --- * ---
- ** ----- [config]
- ** ----- .> app:          internship_project:0x1d0434d7f70
- ** ----- .> transport:    redis://localhost:6379/0
- ** ----- .> results:     disabled://
- *** --- * --- .> concurrency: 8 (prefork)
-- ***** --- .> task events: OFF (enable -E to monitor tasks in this worker)
--- ***** ---
----- [queues]
      .> celery          exchange=celery(direct) key=celery

[tasks]
  . api.tasks.send_email_task

[2025-06-25 14:25:24,360: INFO/MainProcess] Connected to redis://localhost:6379/0
[2025-06-25 14:25:24,360: INFO/MainProcess] mingle: searching for neighbors
[2025-06-25 14:25:25,039: INFO/SpawnPoolWorker-3] child process 19788 calling self.run()
[2025-06-25 14:25:25,039: INFO/SpawnPoolWorker-2] child process 9872 calling self.run()
[2025-06-25 14:25:25,055: INFO/SpawnPoolWorker-5] child process 35936 calling self.run()
[2025-06-25 14:25:25,072: INFO/SpawnPoolWorker-1] child process 36268 calling self.run()
[2025-06-25 14:25:25,099: INFO/SpawnPoolWorker-4] child process 21012 calling self.run()
[2025-06-25 14:25:25,125: INFO/SpawnPoolWorker-7] child process 28812 calling self.run()
[2025-06-25 14:25:25,142: INFO/SpawnPoolWorker-8] child process 35548 calling self.run()
[2025-06-25 14:25:25,142: INFO/SpawnPoolWorker-6] child process 14608 calling self.run()
[2025-06-25 14:25:25,387: INFO/MainProcess] mingle: all alone
[2025-06-25 14:25:25,434: INFO/MainProcess] celery@AlimsComputer ready.

```

**Screenshot: celery\_worker\_started.png**

## C. Run Django Server

In a third terminal:

**python manage.py runserver**

```

PS D:\django-project> venv\Scripts\Activate
(venv) PS D:\django-project> python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
June 25, 2025 - 14:26:01
Django version 4.2.23, using settings 'internship_project.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.

```

**Screenshot: django\_server\_running.png**

## STEP 2: Login & Access Endpoints

### A. Get JWT Token (Login)

POST <http://127.0.0.1:8000/api/token/>

Content-Type: application/json

Body:

```
{
  "username": "your_username",

```

$$\}$$

**Screenshot: jwt\_token\_response.png**

### B. Call /api/public/ (No Auth Needed)

```
GET http://127.0.0.1:8000/api/public/
```

Response:

```
{
  "message": "This is a public endpoint"
}
```

```
1 HTTP/1.1 200 OK
2 Date: Wed, 25 Jun 2025 09:04:25 GMT
3 Server: WSGIServer/0.2 CPython/3.8.6
4 Content-Type: application/json
5 Vary: Accept
6 Allow: OPTIONS, GET
7 X-Frame-Options: DENY
8 Content-Length: 39
9 X-Content-Type-Options: nosniff
10 Referrer-Policy: same-origin
11 Cross-Origin-Opener-Policy: same-origin
12
13 {
14     "message": "This is a public endpoint"
15 }
```

**Screenshot: public\_endpoint.png**

### C. Call /api/protected/ (JWT Token Required)

#### Headers:

Authorization: Bearer your\_token\_here

#### Response:

```
{  
  "message": "Hello, your_username! This is a protected endpoint."  
}
```

```
1  HTTP/1.1 200 OK  
2  Date: Wed, 25 Jun 2025 09:04:38 GMT  
3  Server: WSGIServer/0.2 CPython/3.8.6  
4  Content-Type: application/json  
5  Vary: Accept  
6  Allow: OPTIONS, GET  
7  X-Frame-Options: DENY  
8  Content-Length: 60  
9  X-Content-Type-Options: nosniff  
10 Referrer-Policy: same-origin  
11 Cross-Origin-Opener-Policy: same-origin  
12  
13 {  
14   "message": "Hello wafiyaalim! This is a protected endpoint"  
15 }
```

Screenshot: protected\_endpoint.png

### STEP 3: Telegram Bot Demo

#### A. Run the Bot

python bot.py

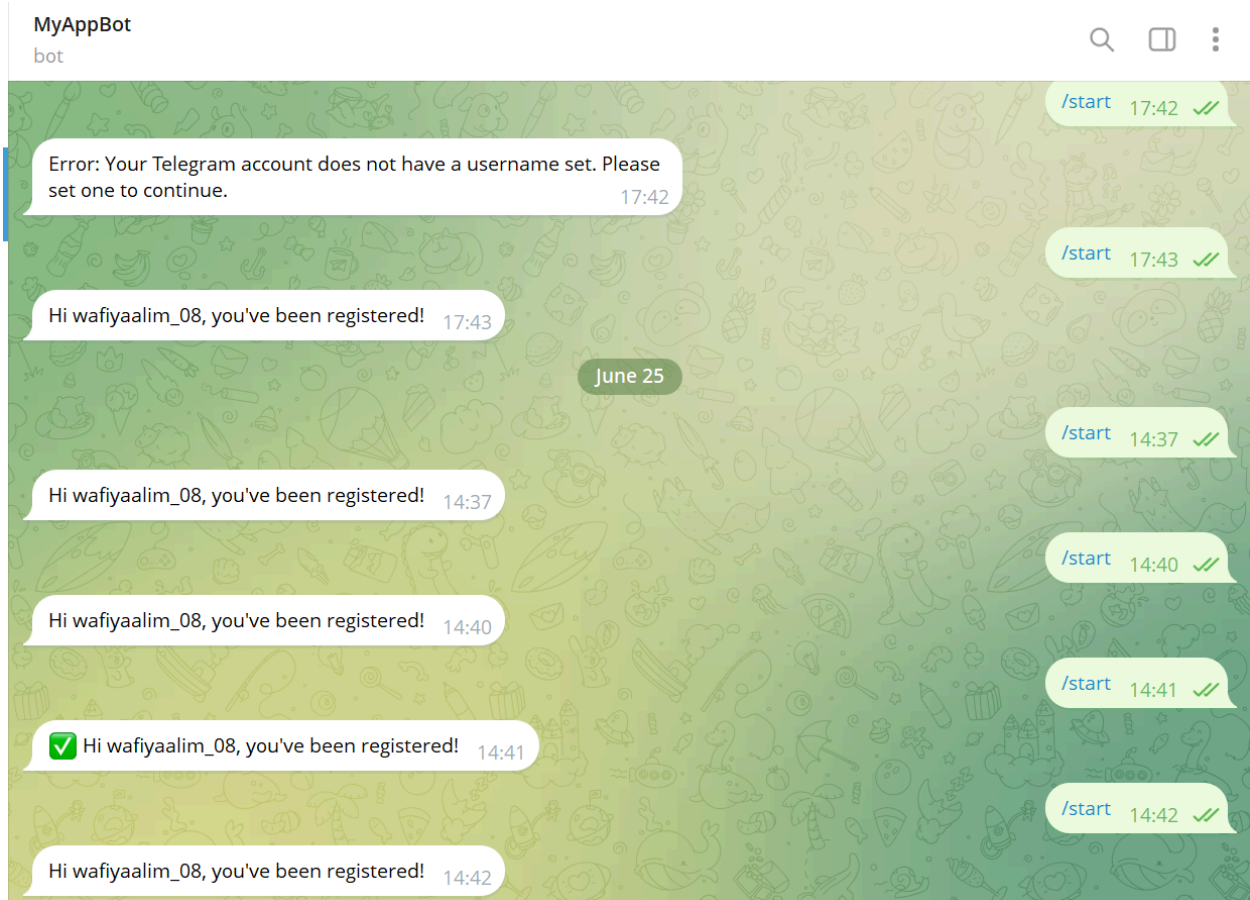
```
(venv) PS D:\django-project> python bot.py  
Starting Telegram bot...  
Bot is now running. Send /start in Telegram.
```

Screenshot: telegram\_bot\_running.png

B. Open Telegram and Type /start

Your bot should respond with:

Hi your\_username, you've been registered!



Screenshot: telegram\_start\_reply.png

## STEP 4: Verify Telegram Username Is Stored

### A. Check Django Admin or Shell

```
python manage.py shell
from api.models import TelegramUser
TelegramUser.objects.all()
```

#### Output:

```
<QuerySet [<TelegramUser: your_username>]>
(venv) PS D:\django-project> python manage.py shell
Python 3.8.6 (tags/v3.8.6:db45529, Sep 23 2020, 15:52:53) [MSC v.1927 64 bit (AMD64)]
in32
Type "help", "copyright", "credits" or "license" for more information.
(InteractiveConsole)
>>> from api.models import TelegramUser
>>> TelegramUser.objects.all()
<QuerySet [<TelegramUser: wafiyaalim_08>]>
```

Screenshot: telegram\_db\_saved.png

## STEP 6: Access /api/telegram-users/ (Protected API)

### Make this request:

GET http://127.0.0.1:8000/api/telegram-users/

Authorization: Bearer your\_token\_here

Response:

```
[
  {
    "username": "your_username",
    "created_at": "2025-06-21T12:43:56.849Z"
  }
]
```

```
1  HTTP/1.1 200 OK
2  Date: Wed, 25 Jun 2025 09:07:20 GMT
3  Server: WSGIServer/0.2 CPython/3.8.6
4  Content-Type: application/json
5  Vary: Accept
6  Allow: OPTIONS, GET
7  X-Frame-Options: DENY
8  Content-Length: 73
9  X-Content-Type-Options: nosniff
10 Referrer-Policy: same-origin
11 Cross-Origin-Opener-Policy: same-origin
12
13 ∨ [
14 ∨ {
15     "username": "wafiyaalim_08",
16     "created_at": "2025-06-21T12:13:36.624232Z"
17 }
18 ]
```

Screenshot: telegram\_users\_api.png