

Marcus github link:

https://github.com/Marcus-K-Thorsen/12a_Expose_and_integrate_with_a_webhook_system

script til at registrere webhooks:

```
import requests

exposee_base_url = "https://exposee-webhook.local.it"
integrator_base_url = "https://7027-85-82-70-165.ngrok-free.app"

subscriptions = [
    {
        "event": "user_registered",
        "url": f"{integrator_base_url}/webhook"
    },
    {
        "event": "user_send_message",
        "url": f"{integrator_base_url}/webhook"
    }
]

for subscription in subscriptions:
    response = requests.post(
        f"{exposee_base_url}/webhook",
        json=subscription
    )
    if response.ok:
        print(f"Subscribed to {subscription['event']} successfully.")
    else:
        print(f"Failed to subscribe to {subscription['event']}: {response.text}")
```

running the script gives this:

```
(12a-expose-and-integrate-with-a-webhook-system-py3.13) PS C:\Users\OliverRoat\KEA\Sys_int\12a_Expose_and_integrate_with_a_webhook_system\webhook_receiver> poetry run python webhook_script.py
Subscribed to user_registered successfully.
Subscribed to user_send_message successfully.
```

Now i can see all the webhooks registered to all events:

Parameters

Cancel

Name	Description
event_filter	Filter webhooks to return by a specific event name (e.g., 'user_registered').
<div>string (string null) (query)</div>	<div>event_filter</div>

Execute

Clear

Responses

Curl

curl -X 'GET' \

https://exposee-webhook.local.it/webhooks \

-H 'accept: application/json'

Request URL

https://exposee-webhook.local.it/webhooks

Server response

Code

Details

200

Response body

{

"webhooks": [

{

"event": "user_registered",

"urls": [

"https://7027-85-82-70-165.ngrok-free.app/webhook"

]

},

{

"event": "user_send_message",

"urls": [

"https://7027-85-82-70-165.ngrok-free.app/webhook"

]

}

]

}

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Response headers

content-length: 192

content-type: application/json

date: Wed, 07 May 2025 09:32:49 GMT

keep-alive: timeout=5

server: uvicorn

x-localtunnel-agent-ips: ["112.156.61.172"]

x-robots-tag: noindex,nofollow,noarchive,nosnippet,nositelinksearchbox,noimageindex

now i am registering myself as a user:

Parameters

Cancel

Reset

No parameters

Request body required

application/json

```
{
  "username": "oliver"
}
```

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
'https://exposee-webhook.local.it/users' \
-H 'accept: application/json' \
-H 'Content-Type: application/json' \
-d '{
  "username": "oliver"
}'
```

Request URL

```
https://exposee-webhook.local.it/users
```

Server response

Code	Details
200	<div><div>Response body</div><div><pre>{ "username": "oliver", "registered_at": "2025-05-07T09:36:45.619967+00:00" }</pre></div><div>Download</div></div> <div><div>Response headers</div><div><pre>access-control-allow-credentials: true access-control-allow-origin: * content-length: 72 content-type: application/json date: Wed, 07 May 2025 09:36:45 GMT keep-alive: timeout=5 server: uvicorn x-localtunnel-agent-ips: ["112.156.61.172"] x-robots-tag: noindex,nofollow,noarchive,nosnippet,nositelinksearchbox,noimageindex</pre></div></div>

Responses

after that i can now see in my terminal that my webhook that i registered has been triggered:

```
Writing lock file
(12a-expose-and-integrate-with-a-webhook-system-py3.13) PS C:\Users\OliverRoat\KEA\Sys_int\12a_Expose_and_integrate_with_a_webhook_system\webhook_receiver> poetry run uvicorn receiver:app --reload
INFO: Will watch for changes in these directories: ['C:\\Users\\OliverRoat\\KEA\\Sys_int\\12a_Expose_and_integrate_with_a_webhook_system\\webhook_receiver']
INFO: Uvicorn running on http://127.0.0.1:8000 (Press CTRL+C to quit)
INFO: Started reloader process [32100] using StatReload
INFO: Started server process [31140]
INFO: Waiting for application startup.
INFO: Application startup complete.
[2025-05-07 11:37:29] Webhook receiveds: {'event': 'user_registered', 'data': {'username': 'oliver', 'registered_at': '2025-05-07T09:36:45.619967+00:00'}}
INFO: 112.156.61.172:0 - "POST /webhook HTTP/1.1" 200 OK
```

i send a message from one user to another:

Parameters

Cancel

Reset

No parameters

Request body required

application/json

```
{  "sender": "oliver",  "recipient": "anton",  "subject": "hej du gamle",  "message": "godmorgen"}
```

Execute

Clear

Responses

Curl

```
curl -X 'POST' \  https://exposee-webhook.local/users/messages' \  -H 'accept: application/json' \  -H 'content-type: application/json' \  -d '{  "sender": "oliver",  "recipient": "anton",  "subject": "hej du gamle",  "message": "godmorgen"  }'
```

Request URL

https://exposee-webhook.local/users/messages

Server response

Code	Details
200	<div>Response body</div> <pre>{ "sender": "oliver", "recipient": "anton", "subject": "hej du gamle", "message": "godmorgen", "received_at": "2025-05-07T09:41:03.878719+00:00"}</pre> <div><div>Download</div></div>

My webhook was triggered and printer this out in the terminal:

```
INFO: 112.156.61.172:0 - "POST /webhook HTTP/1.1" 200 OK
[2025-05-07 11:40:00] Webhook received: {'event': 'user_registered', 'data': {'username': 'anton', 'registered_at': '2025-05-07T09:39:17.166887+00:00'}}
INFO: 112.156.61.172:0 - "POST /webhook HTTP/1.1" 200 OK
[2025-05-07 11:41:47] Webhook received: {'event': 'user_send_message', 'data': {'sender': 'oliver', 'recipient': 'anton', 'subject': 'hej du gamle', 'message': 'godmorgen', 'received_at': '2025-05-07T09:41:03.878719+00:00'}}
INFO: 112.156.61.172:0 - "POST /webhook HTTP/1.1" 200 OK
```

I now registered a webhook that does not exist:

Parameters

No parameters

Request body required

application/json

```
{
  "event": "user_registered",
  "url": "http://example.com/webhook1"
}
```

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'https://exposee-webhook.local.it/webhook' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
    "event": "user_registered",
    "url": "http://example.com/webhook1"
  }'
```

Request URL

https://exposee-webhook.local.it/webhook

Server response

Code

Details

200

Response body

```
{
  "message": "Webhook registered successfully",
  "url": "http://example.com/webhook1",
  "event": "user_registered"
}
```

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I pinged all the webhooks and here i can see the error for the wrongly registered webhook:

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'https://exposee-webhook.loca.lt/ping' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
    "test_key": "test_value",
    "message": "This is a test payload for webhook testing."
  }'
```

Request URL

https://exposee-webhook.loca.lt/ping

Server response

Code

Details

200

Response body

```
{
  "event": "user_registered",
  "url": "https://7027-85-82-70-165.ngrok-free.app/webhook",
  "payload": {
    "status": "ok"
  },
  "status_code": 200
},
{
  "event": "user_send_message",
  "url": "https://7027-85-82-70-165.ngrok-free.app/webhook",
  "payload": {
    "status": "ok"
  },
  "status_code": 200
},
{
  "failed_webhooks_count": 1,
  "failed_webhooks": [
    {
      "event": "user_registered",
      "url": "http://example.com/webhook1",
      "error": "HTTP error: Forbidden",
      "status_code": 403
    }
  ],
  "message": "Pinged all registered webhooks successfully."
}
```

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I unregistered the wrongly registered webhook:

Parameters

No parameters

Request body required

application/json

```
{
  "event": "user_registered",
  "url": "http://example.com/webhook1"
}
```

Execute

Clear

Responses

Curl

```
curl -X 'DELETE' \
  'https://exposee-webhook.local.it/webhook' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "event": "user_registered",
    "url": "http://example.com/webhook1"
  }'
```

Request URL

https://exposee-webhook.local.it/webhook

Server response

Code

Details

204

Response headers

```
access-control-allow-credentials: true
access-control-allow-origin: *
content-type: application/json
date: Wed, 07 May 2025 09:47:08 GMT
keep-alive: timeout=5
server: uvicorn
x-localtunnel-agent-ips: ["112.156.61.172"]
x-robots-tag: noindex,nofollow,noarchive,nosnippet,nositelinksearchbox,noimageindex
```

i pinged it again to test that its gone and it is:

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'https://exposee-webhook.loca.lt/ping' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
    "test_key": "test_value",
    "message": "This is a test payload for webhook testing."
  }'
```

Request URL

https://exposee-webhook.loca.lt/ping

Server response

Code

Details

200

Response body

```
{
  "successful_webhooks_count": 2,
  "successful_webhooks": [
    {
      "event": "user_registered",
      "url": "https://7027-85-82-70-165.ngrok-free.app/webhook",
      "payload": {
        "status": "ok"
      },
      "status_code": 200
    },
    {
      "event": "user_send_message",
      "url": "https://7027-85-82-70-165.ngrok-free.app/webhook",
      "payload": {
        "status": "ok"
      },
      "status_code": 200
    }
  ],
  "failed_webhooks_count": 0,
  "failed_webhooks": [],
  "message": "Pinged all registered webhooks successfully."
}
```

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Lastly i unregistered my two webhooks and tested that it worked and it did:

Execute

Clear

Responses

Curl

```
curl -X 'GET' \
  'https://exposee-webhook.loca.lt/webhooks' \
  -H 'accept: application/json'
```

Request URL

https://exposee-webhook.loca.lt/webhooks

Server response

Code

Details

200

Response body

```
{
  "webhooks": [
    {
      "event": "user_registered",
      "urls": []
    },
    {
      "event": "user_send_message",
      "urls": []
    }
  ]
}
```

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