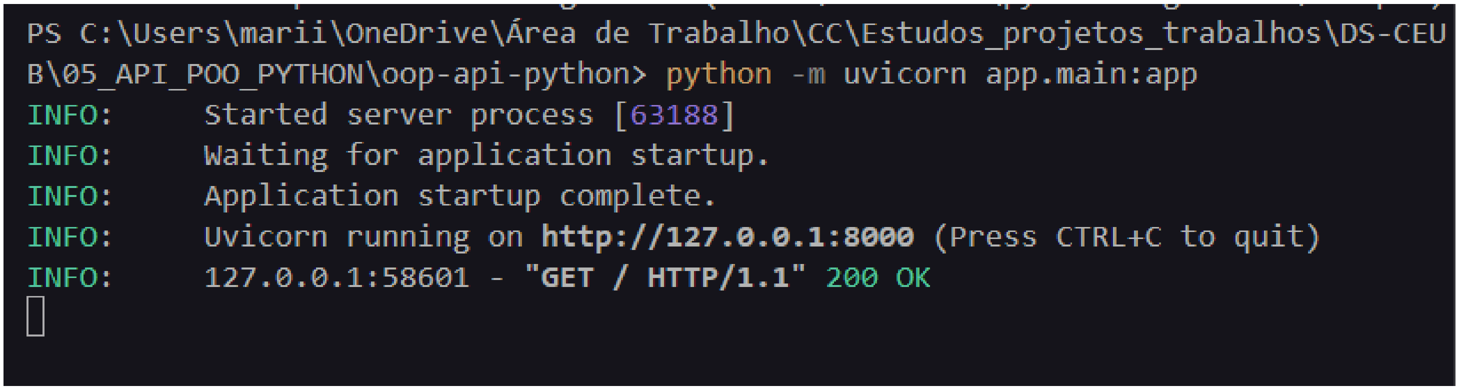
Evidências – API OOP (Python)

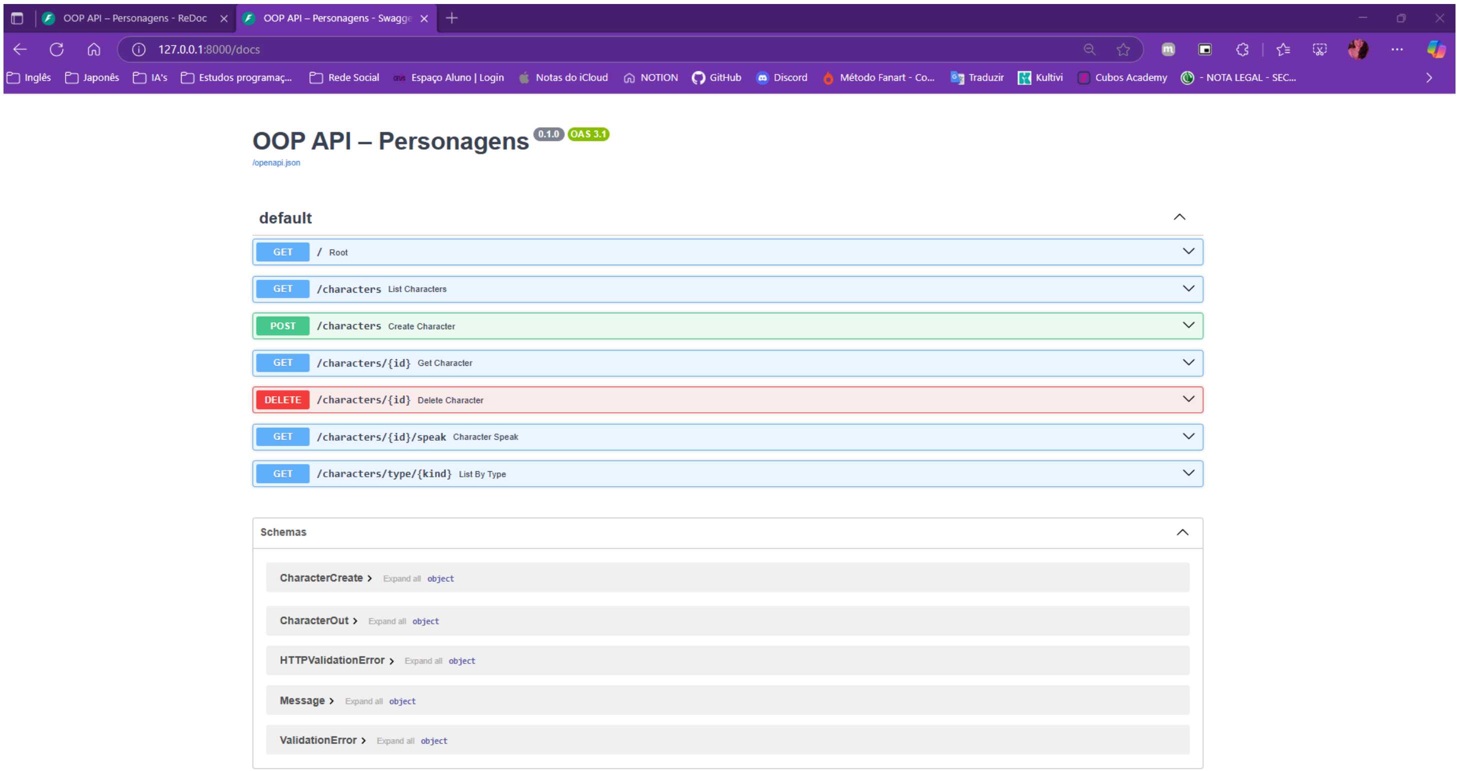
1. Execução do servidor

- Terminal com `uvicorn app.main:app --reload` e log "Uvicorn running on http://127.0.0.1:8000".



```
PS C:\Users\marii\OneDrive\Área de Trabalho\CC\Estudos_projetos_trabalhos\DS-CEU
B\05_API_POO_PYTHON\oop-api-python> python -m uvicorn app.main:app
INFO:     Started server process [63188]
INFO:     Waiting for application startup.
INFO:     Application startup complete.
INFO:     Uvicorn running on http://127.0.0.1:8000 (Press CTRL+C to quit)
INFO:     127.0.0.1:58601 - "GET / HTTP/1.1" 200 OK
```

- Print do Swagger UI (`/docs`).



OOP API – Personagens 0.1.0 OAS 3.1

/openapi.json

default

GET `/` Root

GET `/characters` List Characters

POST `/characters` Create Character

GET `/characters/{id}` Get Character

DELETE `/characters/{id}` Delete Character

GET `/characters/{id}/speak` Character Speak

GET `/characters/type/{kind}` List By Type

Schemas

CharacterCreate › Expand all `object`

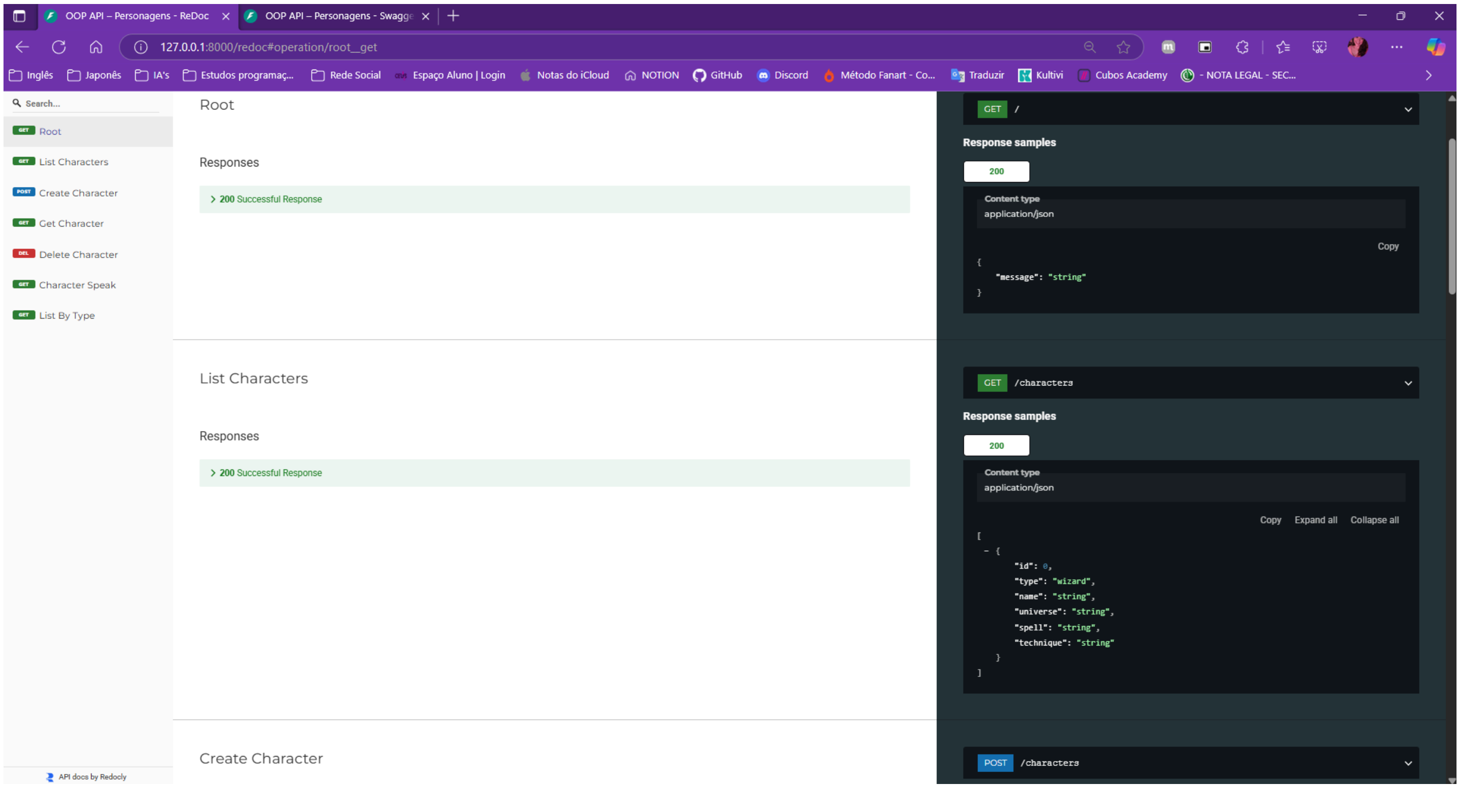
CharacterOut › Expand all `object`

HTTPValidationError › Expand all `object`

Message › Expand all `object`

ValidationError › Expand all `object`

- Print do ReDoc (`/redoc`)



Root

Responses

> 200 Successful Response

GET /

Response samples

200

Content type
application/json

Copy

```
{
  "message": "string"
}
```

List Characters

Responses

> 200 Successful Response

GET /characters

Response samples

200

Content type
application/json

Copy Expand all Collapse all

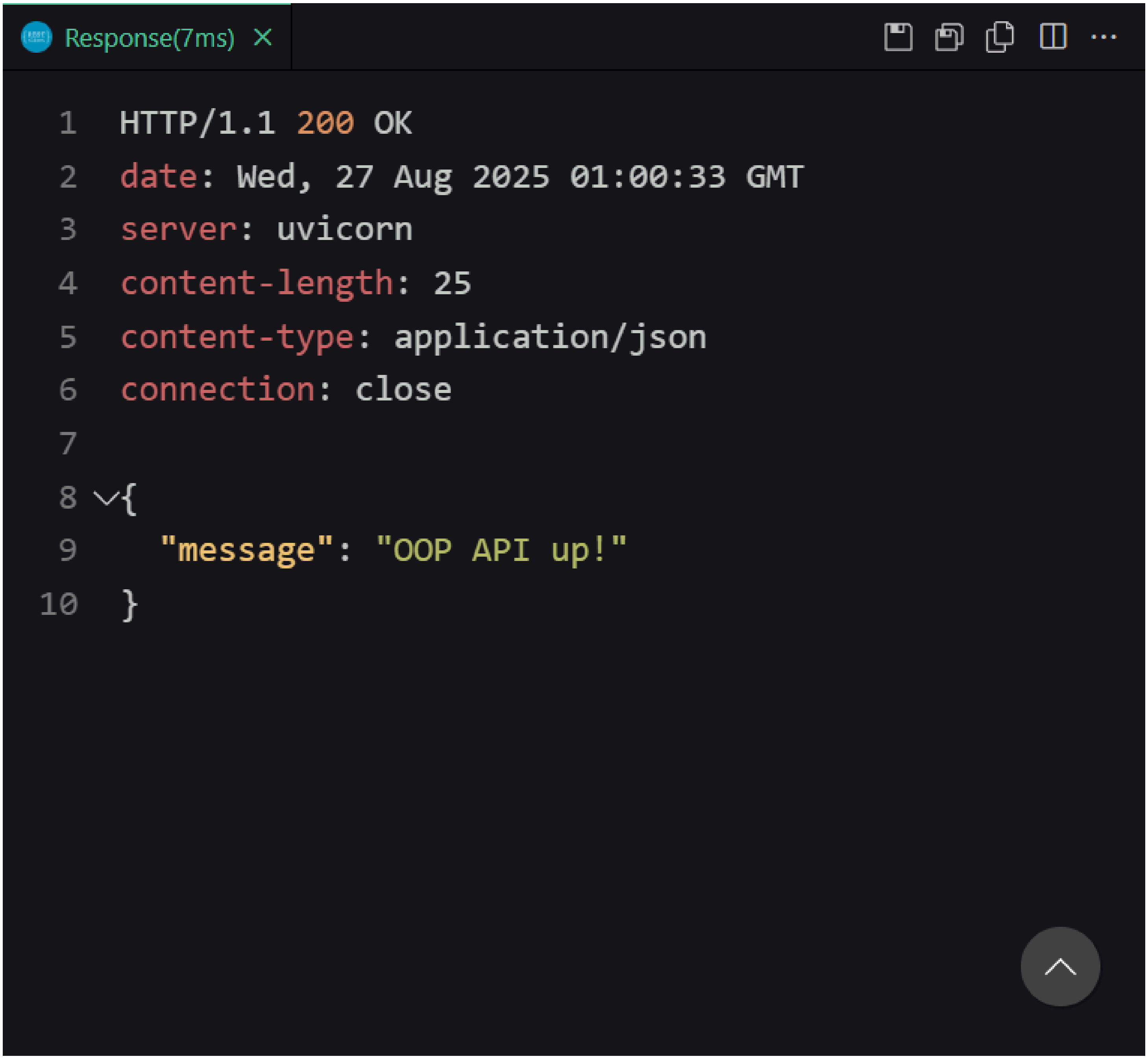
```
[
  - {
        "id": 0,
        "type": "wizard",
        "name": "string",
        "universe": "string",
        "spell": "string",
        "technique": "string"
    }
]
```

Create Character

POST /characters

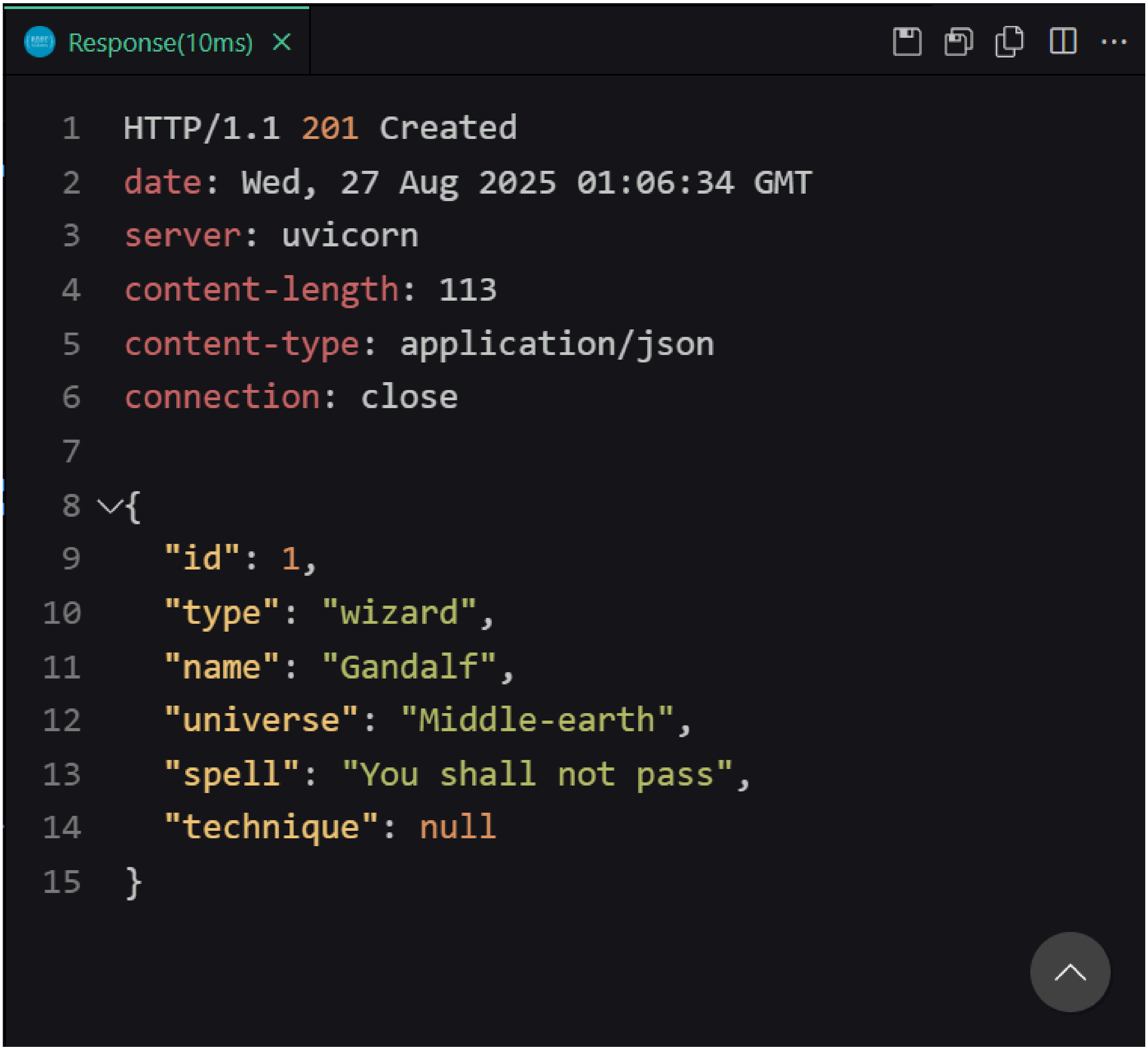
2. Consumo via VS Code – REST Client

- **Healthcheck**: resposta JSON de `/`.



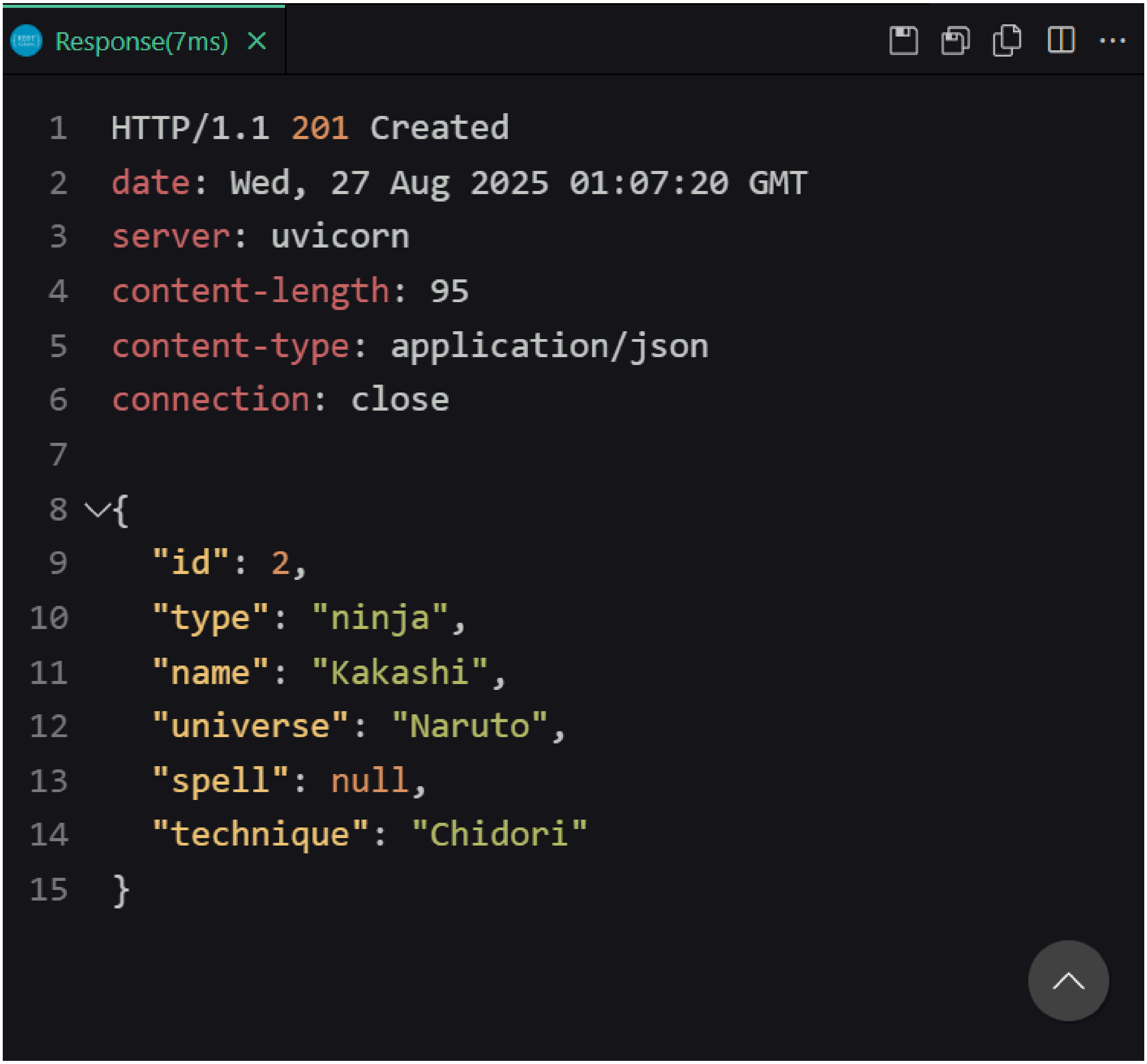
```
HTTP/1.1 200 OK
date: Wed, 27 Aug 2025 01:00:33 GMT
server: uvicorn
content-length: 25
content-type: application/json
connection: close

{
  "message": "OOP API up!"
}
```

- **Criar Wizard** (201).



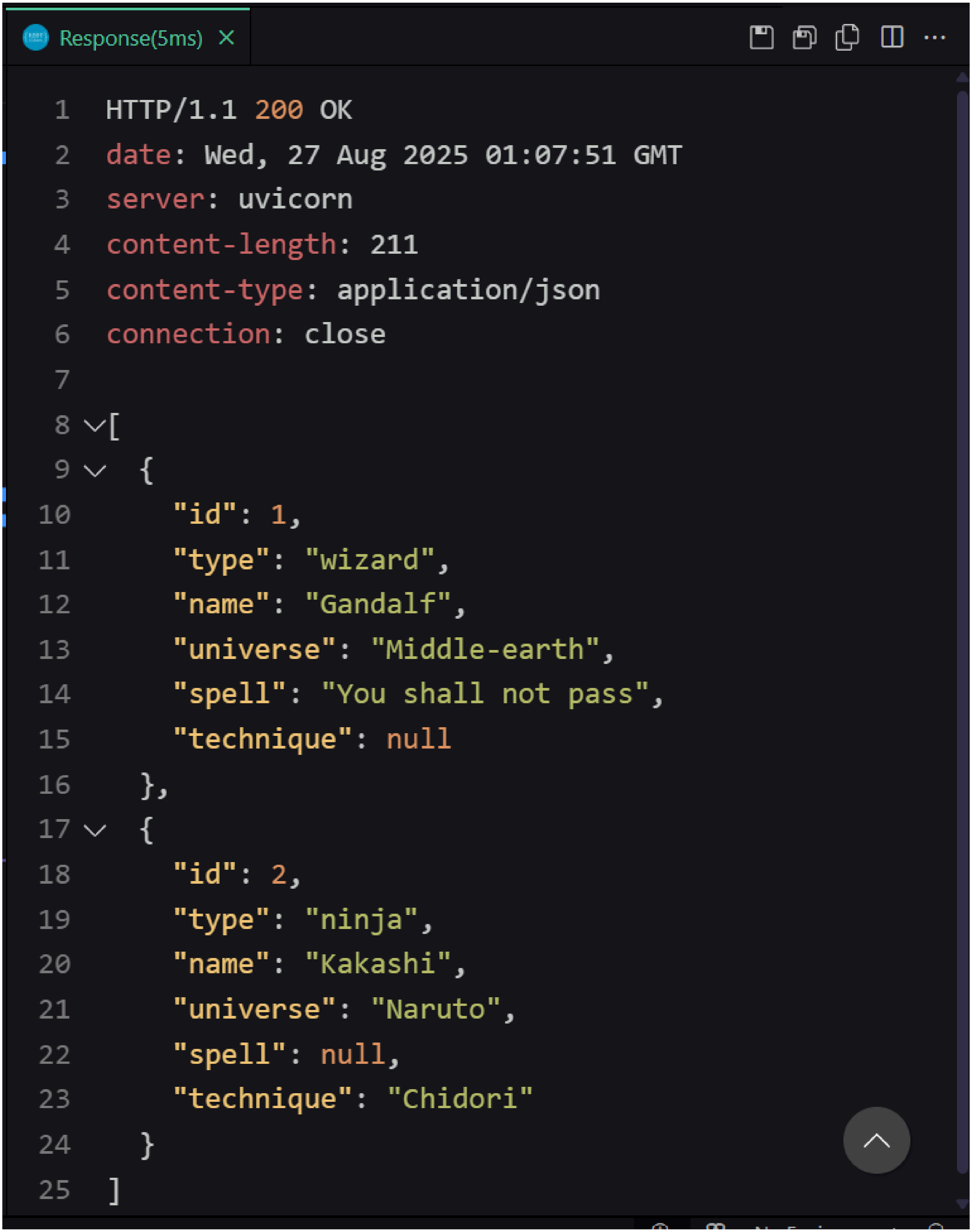
```
HTTP/1.1 201 Created
date: Wed, 27 Aug 2025 01:06:34 GMT
server: uvicorn
content-length: 113
content-type: application/json
connection: close

{
  "id": 1,
  "type": "wizard",
  "name": "Gandalf",
  "universe": "Middle-earth",
  "spell": "You shall not pass",
  "technique": null
}
```

- **Criar Ninja** (201).



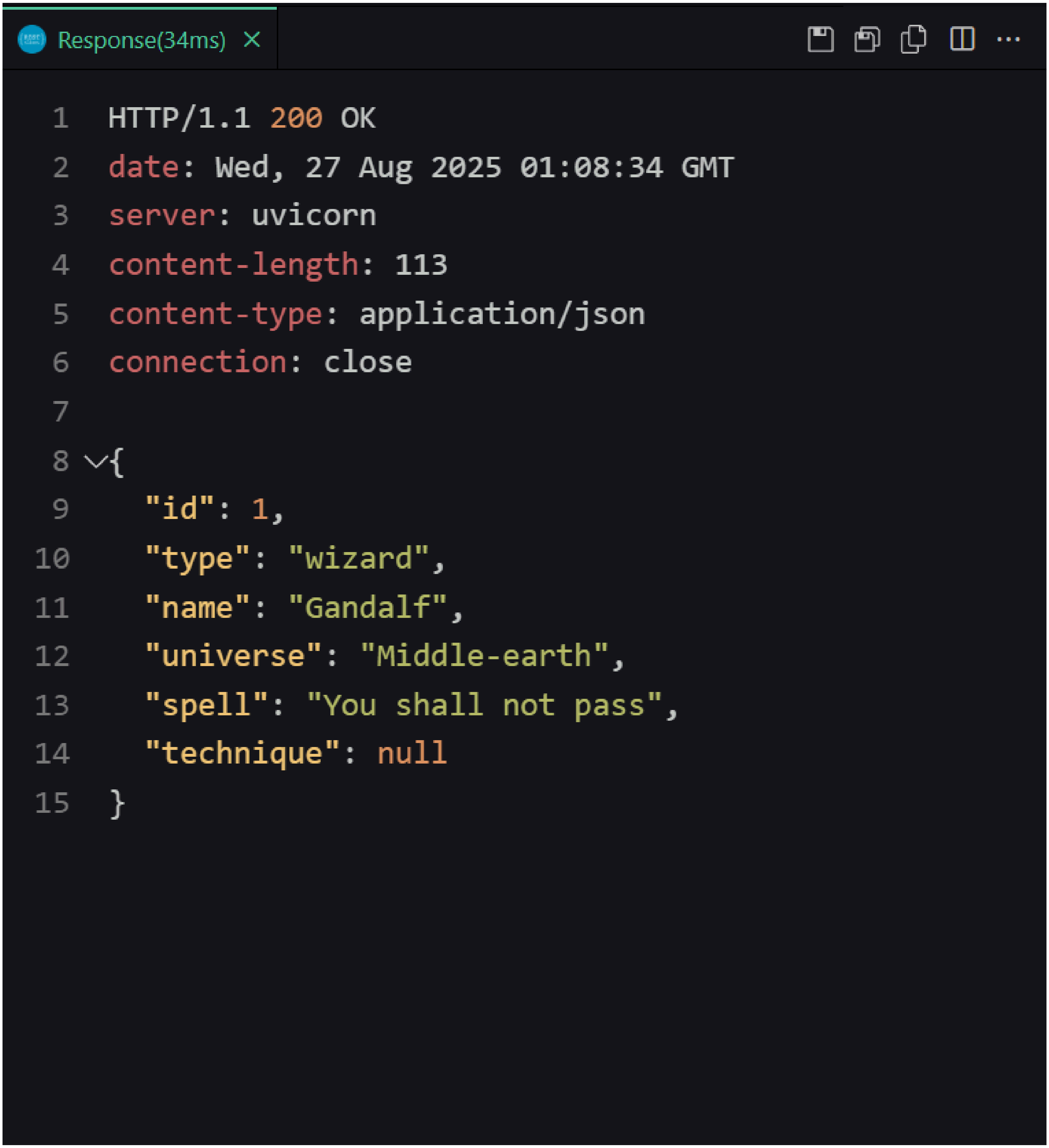
```
HTTP/1.1 201 Created
date: Wed, 27 Aug 2025 01:07:20 GMT
server: uvicorn
content-length: 95
content-type: application/json
connection: close

{
  "id": 2,
  "type": "ninja",
  "name": "Kakashi",
  "universe": "Naruto",
  "spell": null,
  "technique": "Chidori"
}
```

- **Listar** `/characters`



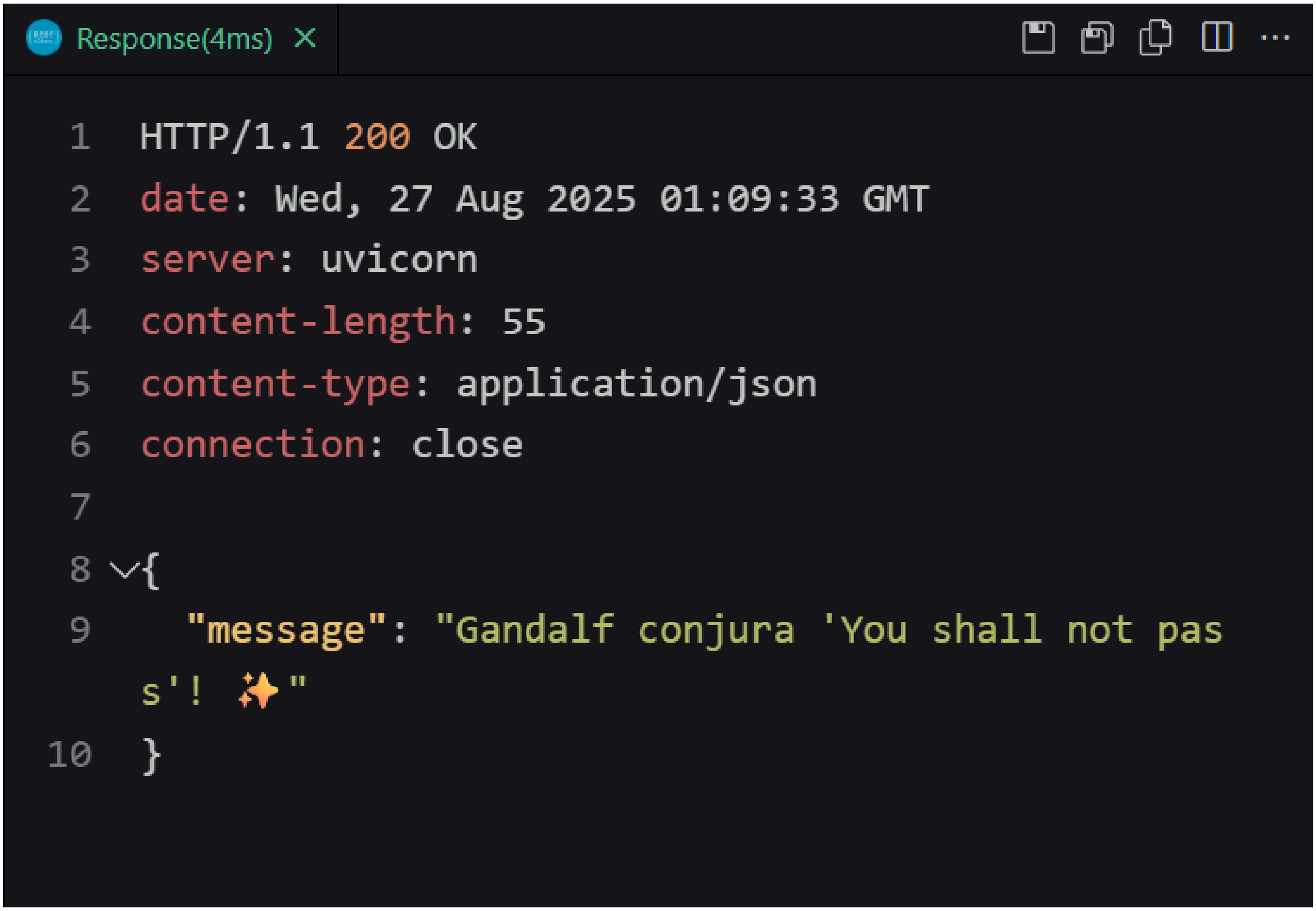
```
HTTP/1.1 200 OK
date: Wed, 27 Aug 2025 01:07:51 GMT
server: uvicorn
content-length: 211
content-type: application/json
connection: close

[
  {
    "id": 1,
    "type": "wizard",
    "name": "Gandalf",
    "universe": "Middle-earth",
    "spell": "You shall not pass",
    "technique": null
  },
  {
    "id": 2,
    "type": "ninja",
    "name": "Kakashi",
    "universe": "Naruto",
    "spell": null,
    "technique": "Chidori"
  }
]
```

- **Obter por ID** `/characters/{id}` : resposta do item 1.

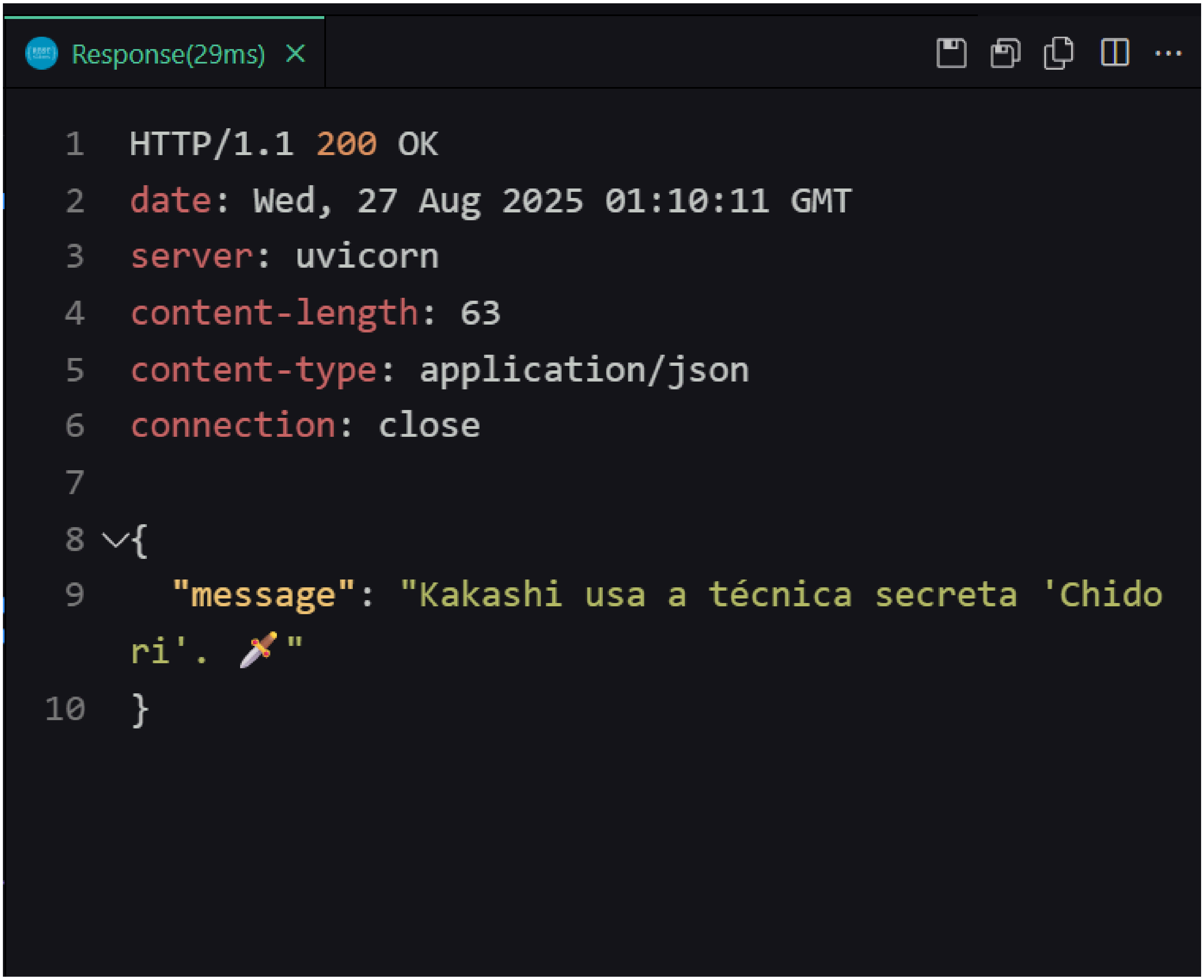


```
HTTP/1.1 200 OK
date: Wed, 27 Aug 2025 01:08:34 GMT
server: uvicorn
content-length: 113
content-type: application/json
connection: close

{
  "id": 1,
  "type": "wizard",
  "name": "Gandalf",
  "universe": "Middle-earth",
  "spell": "You shall not pass",
  "technique": null
}
```

- **Polimorfismo** `/characters/1/speak` e `/characters/2/speak` .

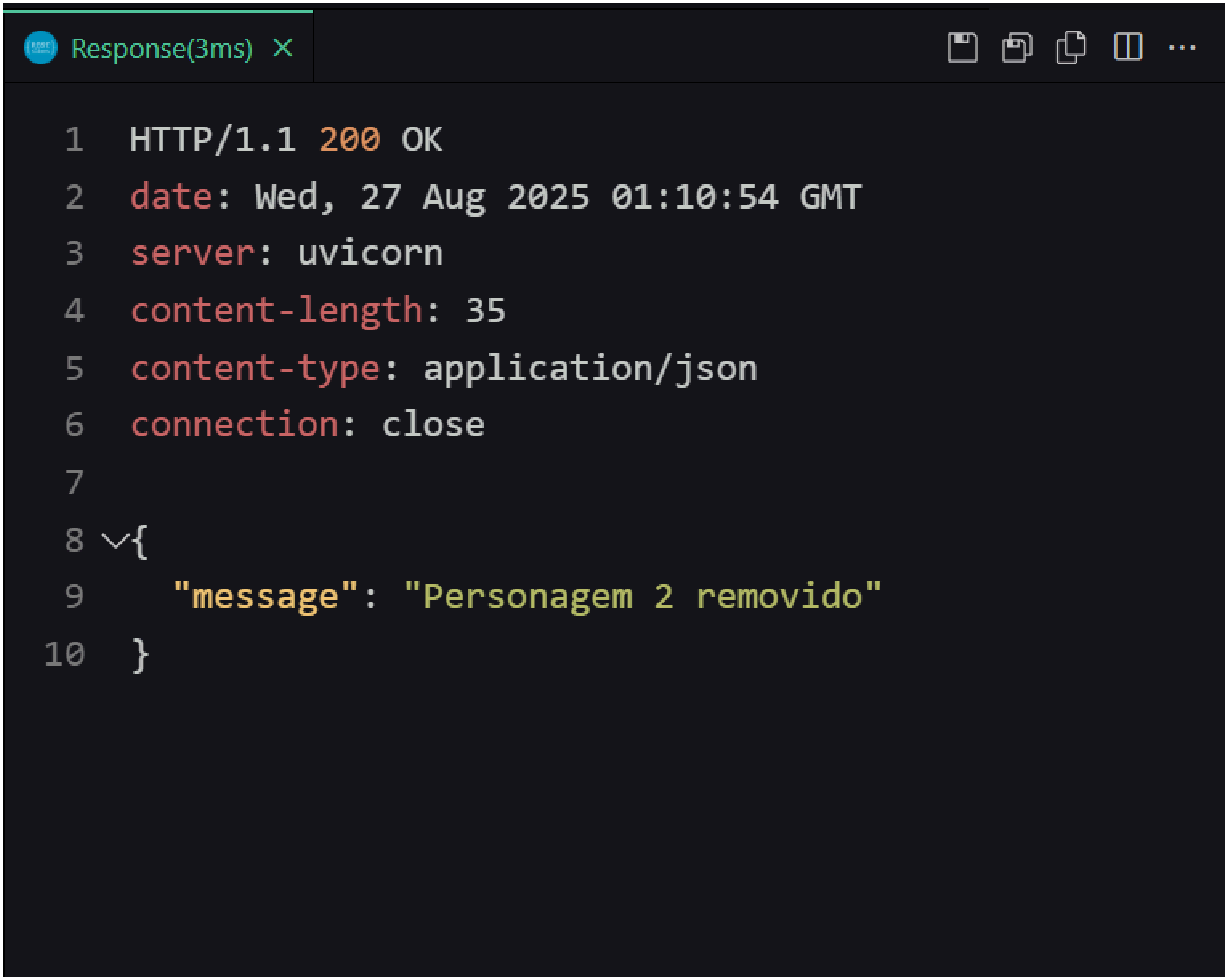


```
HTTP/1.1 200 OK
date: Wed, 27 Aug 2025 01:09:33 GMT
server: uvicorn
content-length: 55
content-type: application/json
connection: close

{
  "message": "Gandalf conjura 'You shall not pass'! ✨"
}
```



```
HTTP/1.1 200 OK
date: Wed, 27 Aug 2025 01:10:11 GMT
server: uvicorn
content-length: 63
content-type: application/json
connection: close

{
  "message": "Kakashi usa a técnica secreta 'Chidori'. 🗡️"
}
```

- **Remover** `/characters/2` .



```
HTTP/1.1 200 OK
date: Wed, 27 Aug 2025 01:10:54 GMT
server: uvicorn
content-length: 35
content-type: application/json
connection: close

{
  "message": "Personagem 2 removido"
}
```

3. Observações técnicas

- Como a fábrica no `POST /characters` decide qual classe instanciar com base em `type` .
- Encapsulamento com propriedades (`name`).