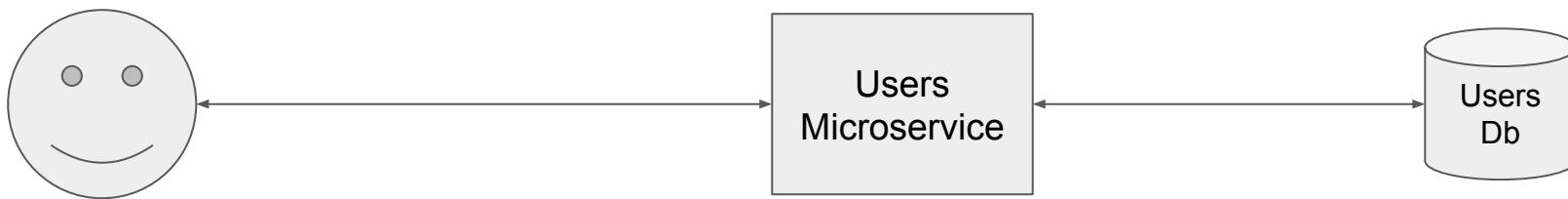


# JWT Authentication

## Introduction

- POST /users
- GET /users/<userId> **Require authentication**
- PUT /users/<userId> **Require Authentication**
- DELETE /users/<userId> **Require Authentication**
- POST /login

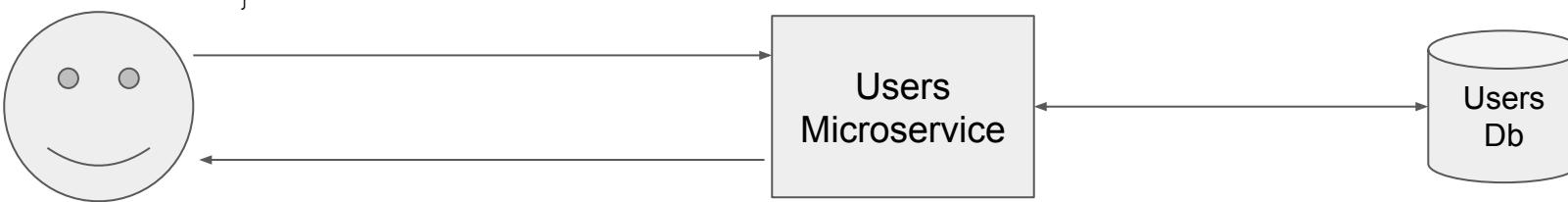


**User authentication** is the process of confirming a user's identity by checking their credentials, like a username and password.

## POST /login

```
{  
  "email": "test1@com",  
  "password": "123456789"}  
}
```

- POST /users
- GET /users/<userId> Require authentication
- PUT /users/<userId> Require Authentication
- DELETE /users/<userId> Require Authentication
- POST /login



## JSON Web Token(JWT)

```
eyJhbGciOiJIUzUxMiJ9.eyJzdWliOiJINTI3YmRhZS0  
2ZTJkLTRjMDYtYjQ3ZC1iNzE3OWVkJNWI0OWEiLCJ  
pYXQiOjE3Mjk5NjY2ODgslmV4cCl6MTcyOTk3MDI4  
OH0.Sn6L2JV4X7ZC3bE-Qkw2qRwd12ruiRiX_P4-Yd  
ErFDIluYJdPlZeUfVepniDhQatZBLX_wfbl6W9OlRA  
Yechg
```

# JSON Web Token(JWT)

eyJhbGciOiJSUzI1NilsInR5cClgOiAiSldeUliwia2IkliA6ICltNUlsX2I0cUktdWFvaEI3d244UHY3WEM2UEktU3BNbmZCRnIJZUx  
6QTJNln0.**eyJleHAiOjE1OTM0NTcxMTAsImhdCl6MTU5MzQ1NjgxMCwiYXV0aF90aW1ljoxNTkzNDU2NjE2LCJqdGkiOiJiMDky**  
OGEzNy01M2Y0LTQxZDQtODZkMy0wY2E2OTI2Njk4ODkiLCJpc3MiOiJodHRwOi8vbG9jYWxob3N0OjgwODAvYXV0aC9yZWFs  
bXMvYXBwc2RldmVsb3BlcmJsb2ciLCJzdWliOixZGRIM2ZjMy1jNmRiLTQ5ZmltOWIzC03OTY0YzVjMDY4N2EiLCJ0eXAiOiJCZ  
WFyZXliLCJhenAiOiJwaG90by1hcHAtY29kZS1mbG93LXJlc3QtY2xpZW50liwic2Vzc2lvbl9zdGF0ZSI6Ijc5OWFhOTJiLWVhNjctN  
DFiNy1hNzE1LWVkMGExNTI0MTY0NCIsImFjciI6IjAiLCJzY29wZSI6Im9wZW5pZCBwcm9maWxliwibmFtZSI6IkthcmdvcG9sb3Yi  
LCJwcmVmZXJyZWRfdXNlcm5hbWUiOjzZXJnZXkiLCJmYW1pbHfbmFtZSI6IkthcmdvcG9sb3YifQ.**FQQihDLOGU7UOeGNKzfZ**  
9kqgRNqxfc2GLV1kB2xWbvk1fEkTX2m9y-jtEsXukjx0Ew0ZpRC9jR1fZaDflWomzz7cYBsY5r6rl0SadxNJU6c7gUI4XTzaFhOplyPI  
4DGff9DaIW1SAPV0RdsKKjmCoboj\_CS1AfsVF2JFbujksmsnkTxrJ56oKom1UjrpQEIV\_81bQRQ6jQI54\_Edlcaqc6TvSTNosW6j7I  
\_LSPqcLZtSVrQaa7pEDeeNgPdNY0mMYmNgGd1YcDsers4g3lihySikIALcPma3KZX-DPQ7RTbWXbrPNDwbjXd4Anft0YrMRHQf  
JYBmOqHeGkA287gQQ

# What is JSON Web Token(JWT)

- An open standard (RFC 7519) for securely transmitting information between parties as a JSON object.
- A compact, self-contained token consisting of three parts: Header, Payload, and Signature

# JSON Web Token(JWT)



eyJhbGciOiJSUzI1NilsInR5cClgOiAiSldeIiwia2lkliA6ICltNUlsX2I0cUktdWFvaEI3d244UHY3WEM2UEktU3BNbmZCRnIJZUx

**6QTJNln0.eyJleHAiOjE1OTM0NTcxMTAsImhdCl6MTU5MzQ1NjgxMCwiYXV0aF90aW1ljoxNTkzNDU2NjE2LCJqdGkiOiJiMDky**

OGEzNy01M2Y0LTQxZDQtODZkMy0wY2E2OTI2Njk4ODkiLCJpc3MiOiJodHRwOi8vbG9jYWxob3N0OjgwODAvYXV0aC9yZWFs

bXMvYXBwc2RldmVsb3BlcmJsb2ciLCJzdWliOixZGRIM2ZjMy1jNmRiLTQ5ZmltOWIzC03OTY0YzVjMDY4N2EiLCJ0eXAiOiJCZ

WFyZXliLCJhenAiOiJwaG90by1hcHAtY29kZS1mbG93LXJlc3QtY2xpZW50liwic2Vzc2lvbl9zdGF0ZSI6Ijc5OWFhOTJiLWVhNjctN

DFiNy1hNzE1LWVkMGExNTI0MTY0NCIsImFjciI6IjAiLCJzY29wZSI6Im9wZW5pZCBwcm9maWxliwibmFtZSI6IkthcmdvcG9sb3Yi

LCJwcmVmZXJyZWRfdXNlcm5hbWUiOjzZXJnZXkiLCJmYW1pbHfbmFtZSI6IkthcmdvcG9sb3YifQ.**FQQihDLOGU7UOeGNKzfZ**

9kqgRNqxfc2GLV1kB2xWbvk1fEkTX2m9y-jtEsXukjx0Ew0ZpRC9jR1fZaDflWomzz7cYBsY5r6rl0SadxNJU6c7gUI4XTzaFhOplyPI

4DGff9DaIW1SAPV0RdsKKjmCoboj\_CS1AfsVF2JFbujksmsnkTxrJ56oKom1UjrpQEIV\_81bQRQ6jQI54\_Edlcaqc6TvSTNosW6j7I

\_LSPqcLZtSVrQaa7pEDeeNgPdNY0mMYmNgGd1YcDsers4g3lihySikIALcPma3KZX-DPQ7RTbWXbrPNDwbjXd4Anft0YrMRHQf

JYBmOqHeGkA287gQQ



[jwt.io](https://jwt.io)



### Header:

```
{  
  "alg": "HS512"  
}
```



### Payload:

```
{  
  "sub": "f3d60c7a-f1a2-4476-b24d-6f549a436047",  
  "iat": 1730128410,  
  "exp": 1730132010,  
  "roles": ["ROLE_USER", "ROLE_ADMIN"],  
  "authorities": ["READ_PROFILE", "EDIT_PROFILE", "DELETE_USER"]  
}
```

# Why we need JSON Web Token(JWT)

- Verify if the source is trusted,
- Verify user identity,
- Check user permissions.

