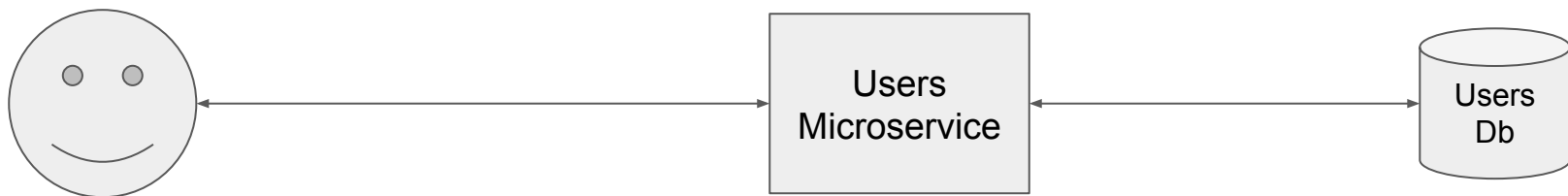


JWT Authentication

Introduction

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

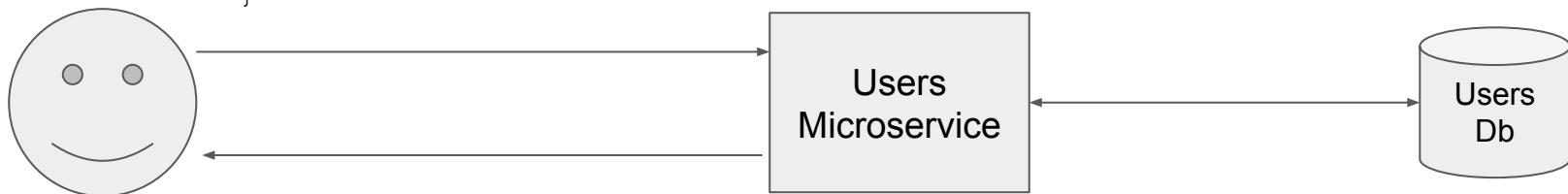


User authentication is the process of confirming a user's identity by checking their credentials, like a username and password.

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.eyJzdWUiOiJINTI3YmRhZS02ZTJkLTRjMDYtYjQ3ZC1iNzE3OWVkbWl0OWEiLCJpYXQiOiE3Mjk5NjY2ODgsImV4cCI6MTcyOTk3MDI4OH0.Sn6L2JV4X7ZC3bE-Qkw2qRwd12ruiRiX_P4-YdErFDIluYJdPIZeUfVepniDhQatZBLX_wfbl6W90luRAYechg
```

JSON Web Token(JWT)

[eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXZWl0cUkdWVvaEi3d244UHY3WEM2UEktU3BNbmZCRnIJZUx6QTJNIn0.](#)[eyJleHAiOjE1OTM0NTcxMTAsImhhbmMtTU5MzQ1NjgxMCwiYXV0aF90aWw1IljoXNTkzNDU2NjE2LCJqdGkiOiJiMDkyOGEzNy01M2Y0LTQxZDQtODZkMy0wY2E2OTI2Njk4ODkiLCJpc3MiOiJodHRwOi8vbG9jYWxob3N0OjgwODAvYXV0aC9yZWFs](#)[bXMvYXBwc2RldmVsb3BlcmJsb2ciLCJzdWIiOiIxZGRIM2ZjMy1jNmRiLTQ5ZmltOWIzC03OTY0YzVjMDY4N2EiLCJ0eXAiOiJCZWFyZXIiLCJhenAiOiJwaG90by1hcHAtY29kZS1mbG93LXIjc3QtY2xpZW50Iiwic2Vzc2lvbi9zdGF0ZSI6Ijc5OWFHOTJiLVVhbjctNF](#)[DFiNy1hNzE1LWVkMGExNTI0MTY0NCIsImFjcil6IjAiLCJzY29wZSI6Im9wZW5pZCBwcm9maWxliiwibmFtZSI6IkhthcmdvcG9sb3Yi](#)[LCJwcmVmZXJyZWRfdXNIcm5hbWUiOiJzZXJnZXkiLCJmYWw1pbHlfbmFtZSI6IkhthcmdvcG9sb3YifQ.](#)[FQQihDLOGU7UOeGNKzfZ9kqgRNqxp](#)[c2GLV1kB2xWbv](#)[k1fEkTX2m9y-jtEsXukjx0Ew0ZpRC9jR1fZaDfiWomzz7cYBsY5r6rl0SadxNJU6c7gUI4XTzaFhOplyPI4DGff9DaIW1SAPV0Rds](#)[kKKjmCoboj_CS1AfsVF2JFbujsmsnkTxrJ56oKom1Ujr](#)[pQEIV_81bQRQ6jQI54_Edlcaqc6TvSTNosW6j7I_LSPqcLZtSVrQaa7pEDeeNgPdNY0mMYmNgGd1YcDsers4g3lihySikIALcPma3KZX-DPQ7RTbWXbrPNDwbjXd4Anft0YrMRHQfJYBmOqHeGKA287gQQ](#)

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)



eyJhbGciOiJSUzI1NiIsInR5cCIgOiAiSldUiiwia2kkaA6ICltNUlsX2I0cUktdWFvaEI3d244UHY3WEM2UEktU3BNbmZCRnIJZUx

6QTJNln0.eyJleHAiOjE1OTM0NTcxMTAsImhdCI6MTU5MzQ1NjgxMCwiYXV0aF90aW1lIjoxNTkzNDU2NjE2LCJqdGkiOiJiMDky



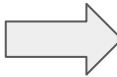
OGEzNy01M2Y0LTQxZDQtODZkMy0wY2E2OTI2Njk4ODkiLCJpc3MiOiJodHRwOi8vbG9jYWxob3N0OjgwODAvYXV0aC9yZWFs
bXMvYXBwczRldmVsb3BlcmJsb2ciLCJzdWl0iOlxZGRlM2ZjMy1jNmRiLTQ5ZmltOWIzC03OTY0YzVjMDY4N2EiLCJ0eXAiOiJCZ
WFyZXliLCJhenAiOiJwaG90by1hcHAfY29kZS1mbG93LXJlc3QtY2xpZW50Iiwic2Vzc2lvdj9zdGF0ZSI6Ijc5OWFhOTJiLWVhNjctN
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LCJwcmVmZXJyZWRfdXNlcm5hbWUiOiJzZXJnZXkiLCJmYW1pbHlfbmFtZSI6IktkcmdvcG9sb3YifQ.FQQihDLOGU7UOeGNKzfz

9kqgRNqxcp2GLV1kB2xWbv1fEkTX2m9y-jtEsXukjx0Ew0ZpRC9jR1fZaDfIWomzz7cYBsY5r6l0SadxNJU6c7gUI4XTzaFhOplyPI
4DGff9DaIW1SAPV0RdskKKjmCoboj_CS1AfsVF2JFbujksmsnkTxrJ56oKom1UjrpQEIV_81bQRQ6jQI54_Edlcaqc6TvSTNosW6j7I
_LSPqcLZtSVrQaa7pEDeeNgPdNY0mMYmNgGd1YcDsers4g3lihySikIALcPma3KZX-DPQ7RTbWXbrPNDwbjXd4Anft0YrMRHqf
JYBmOgHeGkA287gQQ



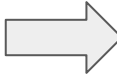
jwt.io

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.

