# JWT Schemas



Full Stack Web Development

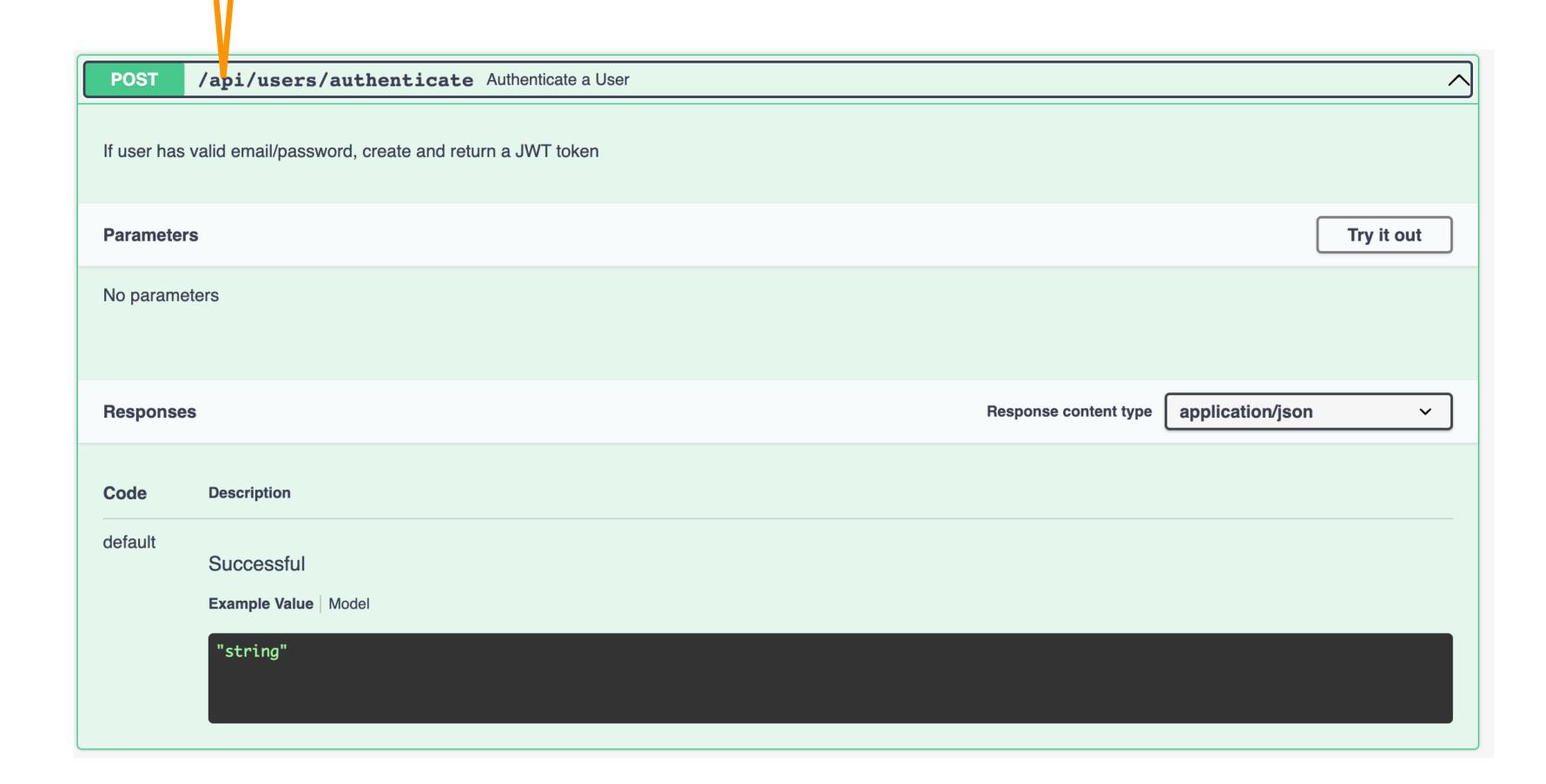
## <u>Authenticate Endpoint</u>

- Without these annotations:
  - tags
  - description
  - note
- Then endpoint is invisible to the Swagger plugin

```
authenticate: {
 auth: false,
 handler: async function(request, h) {
   try {
      const user = await db.userStore.getUserByEmail(request.payload.email);
      if (!user) {
       return Boom.unauthorized("User not found");
      } else if (user.password !== request.payload.password) {
       return Boom.unauthorized("Invalid password");
      } else {
       const token = createToken(user);
       return h.response({ success: true, token: token }).code(201);
    } catch (err) {
      return Boom.serverUnavailable("Database Error");
 },
```

```
authenticate: {
  auth: false,
  handler: async function(request, h) {
    //...
  },
  tags: ["api"],
  description: "Authenticate a User",
  notes: "If user has valid email/password, create and return a JWT token",
}
```

### Authenticate Annotations



```
authenticate: {
  auth: false,
  handler: async function(request, h) {
    try {
      const user = await db.userStore.getUserByEmail(request.payload.email);
      if (!user) {
        return Boom.unauthorized("User not found");
      } else if (user.password !== request.payload.password) {
        return Boom.unauthorized("Invalid password");
      } else {
        const token = createToken(user);
        return h.response({ success: true, token: token }).code(201);
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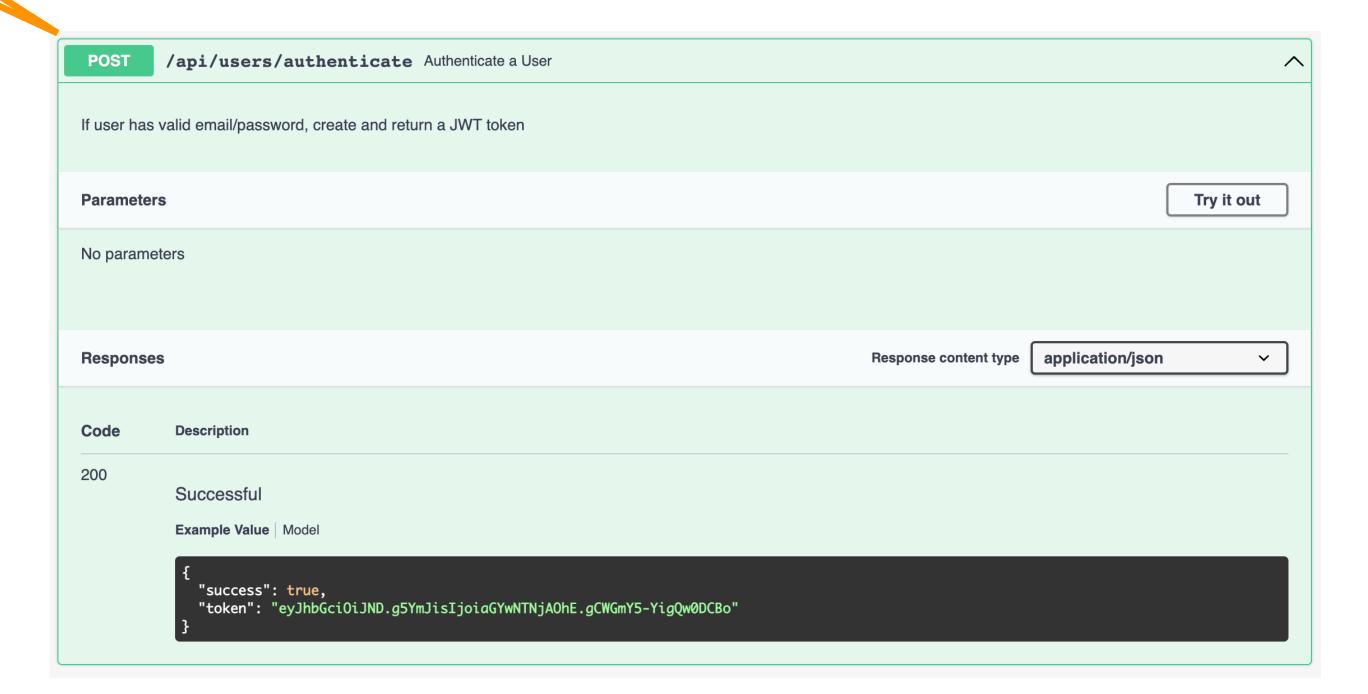
# Authenticate Response Schema

```
export const JwtAuth = Joi.object()
   .keys({
      success: Joi.boolean().example("true").required(),
      token: Joi.string().example("eyJhbGciOiJND.g5YmJisIjoiaGYwNTNjAOhE.gCWGmY5-YigQw0DCBo").required(),
   })
   .label("JwtAuth");
```

```
export const JwtAuth = Joi.object()
   .keys({
    success: Joi.boolean().example("true").required(),
    token: Joi.string().example("eyJhbGciOiJND.g5YmJisIjoiaGYwNTNjAOhE.gCWGmY5-YigQw0DCBo").required(),
})
   .label("JwtAuth");
```

```
import { UserSpec, UserSpecPlus, IdSpec, UserArray, JwtAuth } from "../models/joi-schemas.js";
...
   authenticate: {
    //...
    notes: "If user has valid email/password, create and return a JWT token",
    response: { schema: JwtAuth, failAction: validationError }
}
```

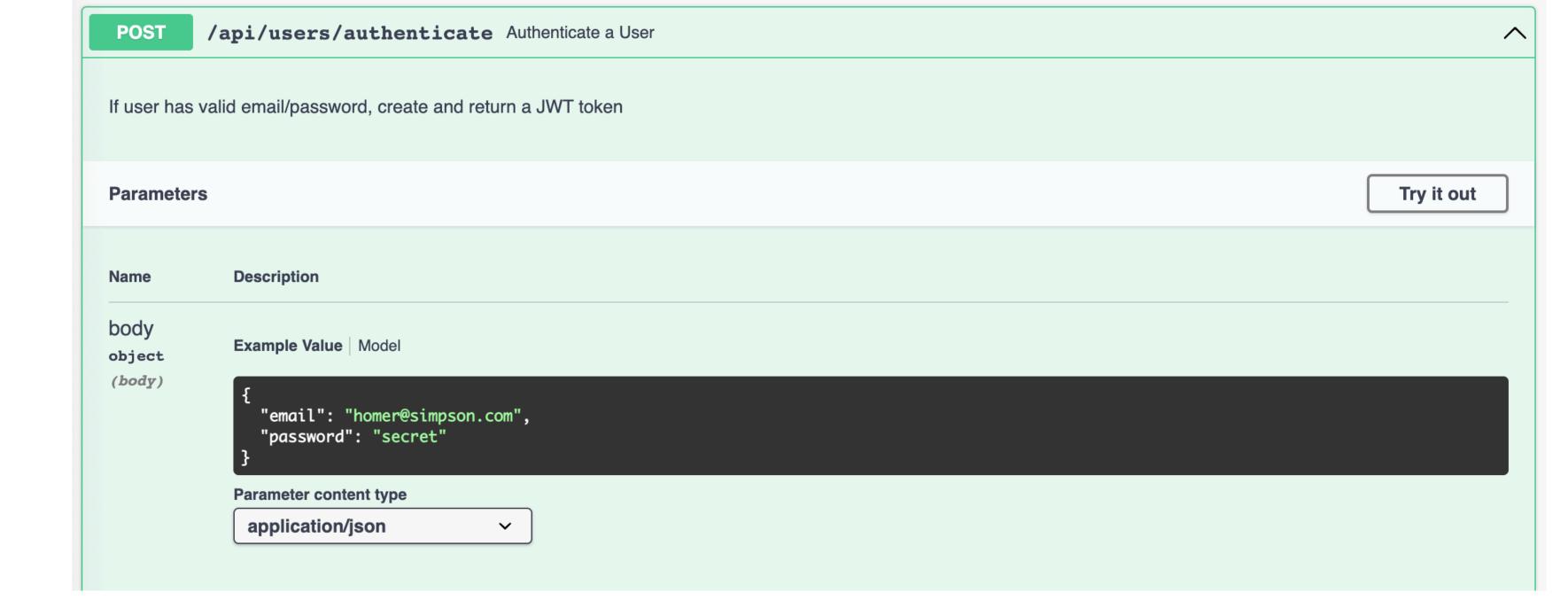
# Authenticate Response Ocumentation



#### Autenticate Parameter

```
export const UserCredentialsSpec = {
  email: Joi.string().email().required(),
  password: Joi.string().required()
};
```

CredentialsSpec alreadydefined



#### Test Failures

- Many tests now failing
- This is because authenticate is sending full user details:
  - first name
  - lastname
  - email
  - password
- User Credentials should be:
  - email
  - password

```
"firstName" is not allowed
...
```

await playtimeService.authenticate(maggie);

```
export const maggie = {
  firstName: "Maggie",
  lastName: "Simpson",
  email: "maggie@simpson.com",
  password: "secret"
};
```

### Test Credentials

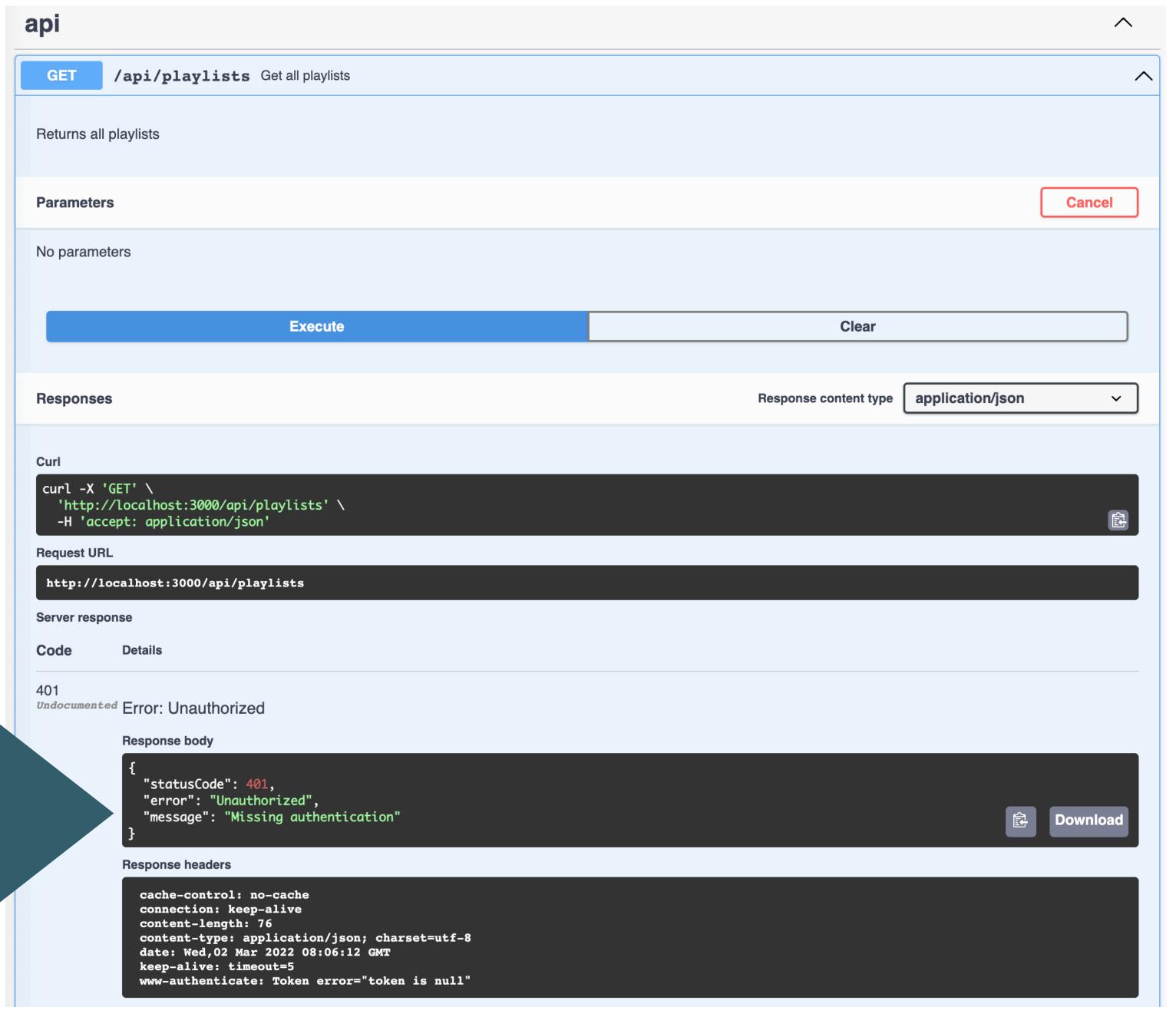
Additional fixture for authenticate

```
export const maggieCredentials = {
  email: "maggie@simpson.com",
  password: "secret"
};
```

.. await playtimeService.authenticate(maggieCredentials);

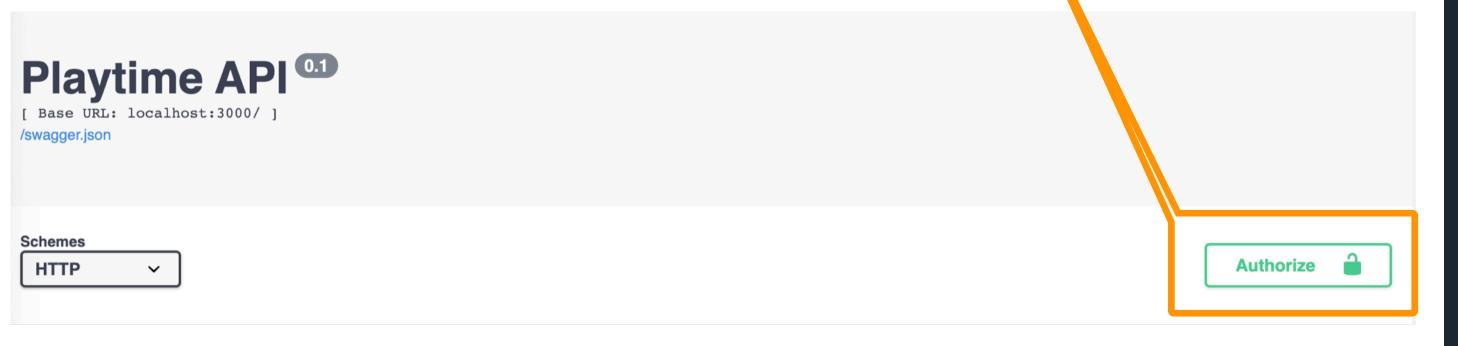
## Swagger Endpoint Access

 With JWT enabled, the endpoint are no longer accessible from the documentation



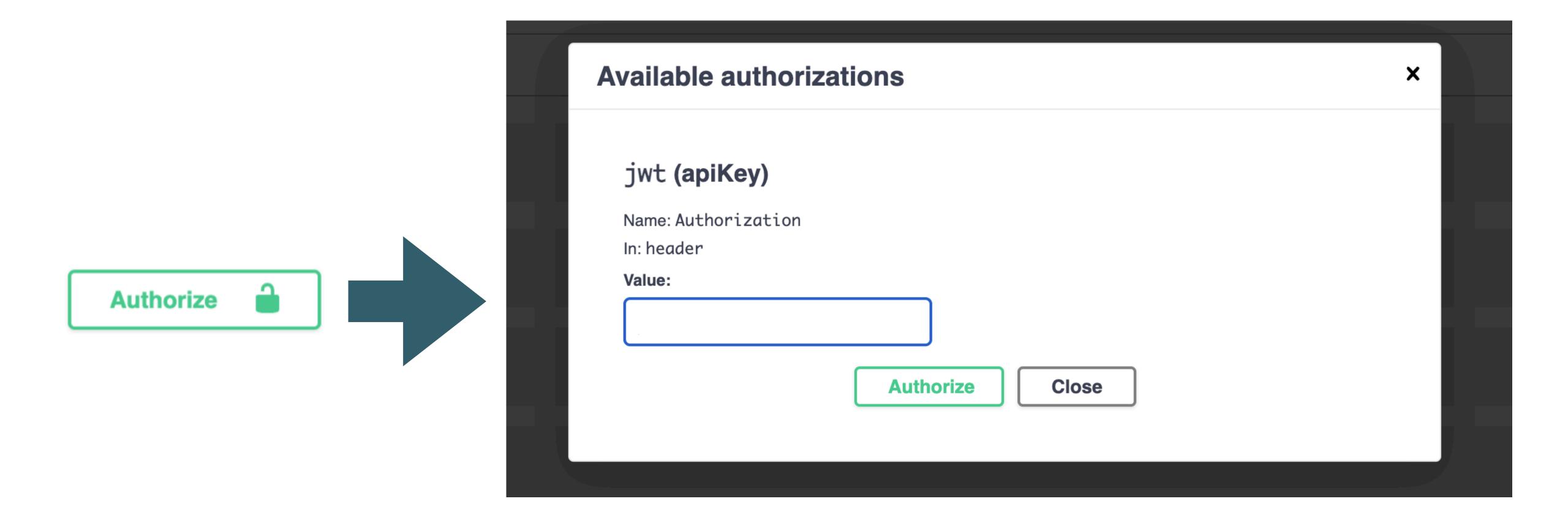
## Swagger Security Definition

- Extend swaggerOptions to include additional security parameters
- This make an Authorize button appear

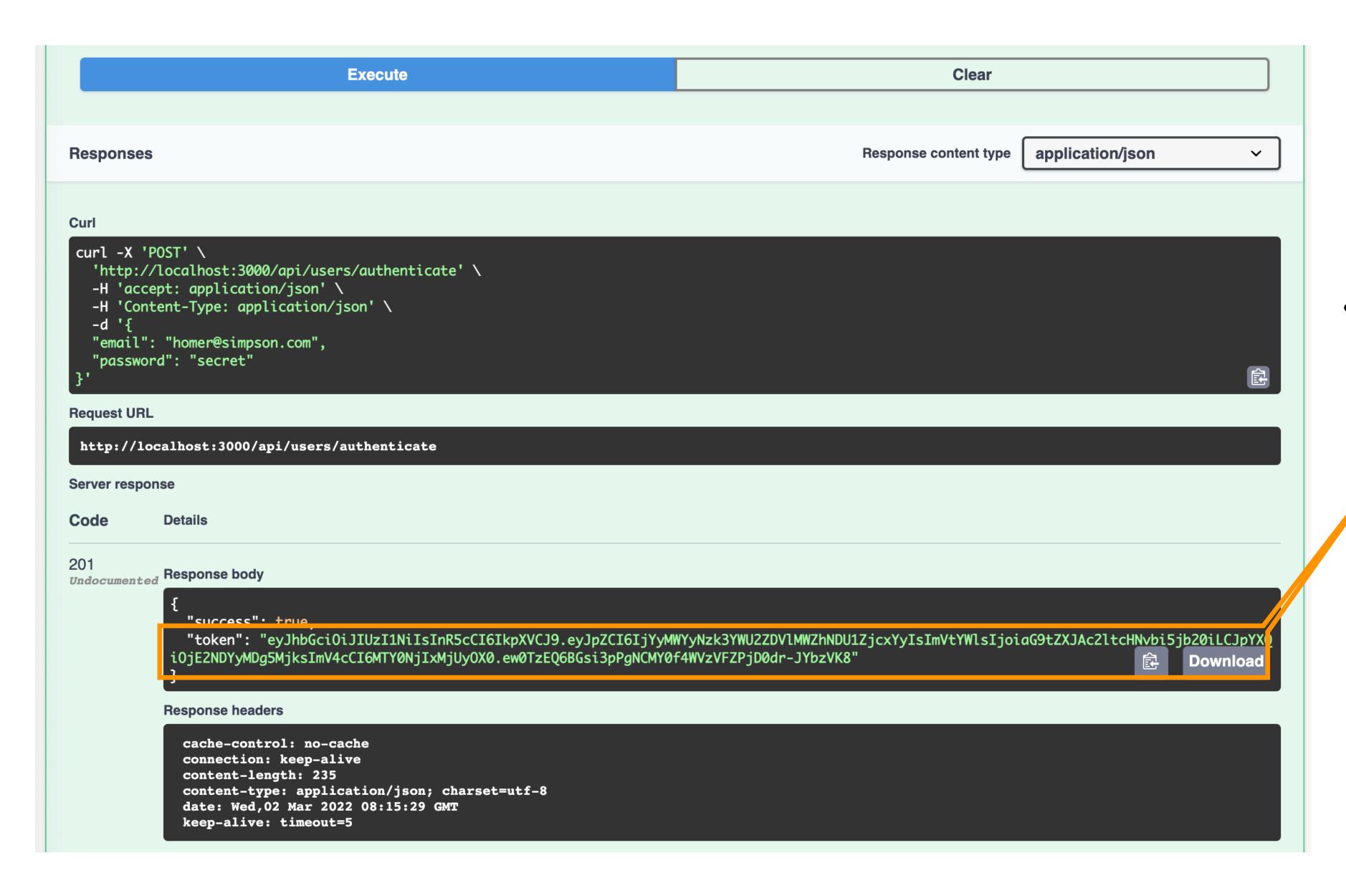


```
const swaggerOptions = {
  info: {
    title: "Playtime API",
    version: "0.1"
  securityDefinitions: {
    jwt: {
      type: "apiKey",
      name: "Authorization",
      in: "header"
  security: [{ jwt:
```

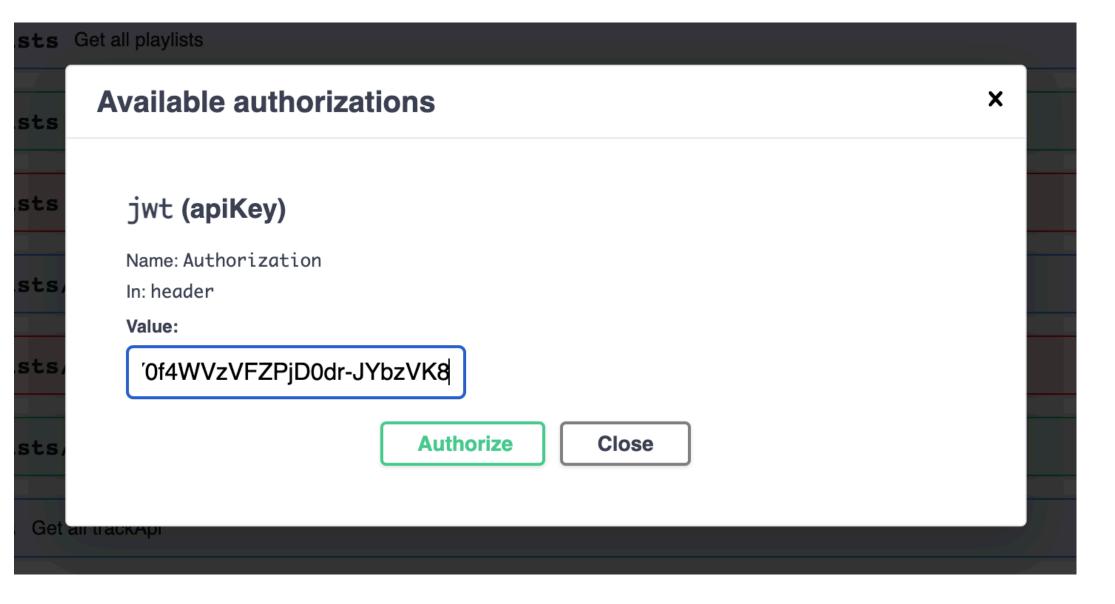
## Authorizations Value



#### Create & Authorize User

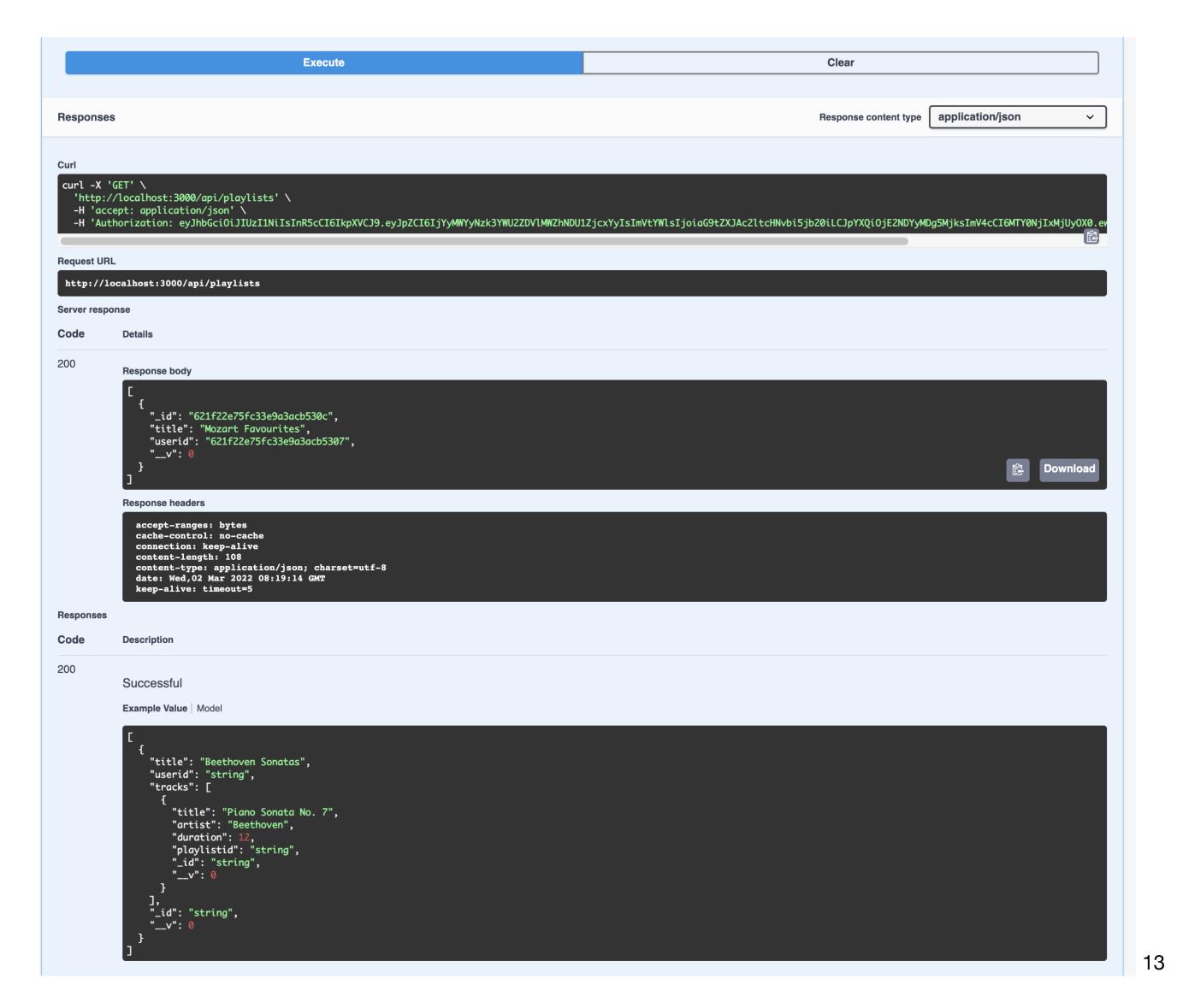


Copy Token from successful authenticate
 response



All secured routes now become available

## Authorise Using Token



 Supports a large range of protocols and standards Download Documentation libcurl Get Help Development News



#### command line tool and library for transferring data with URLs (since 1998)

#### Supports...

DICT, FILE, FTP, FTPS, GOPHER, GOPHERS, HTTP, HTTPS, IMAP, IMAPS, LDAP, LDAPS, MQTT, POP3, POP3S, RTMP, RTMPS, RTSP, SCP, SFTP, SMB, SMBS, SMTP, SMTPS, TELNET and TFTP. curl supports SSL certificates, HTTP POST, HTTP PUT, FTP uploading, HTTP form based upload, proxies, HTTP/2, HTTP/3, cookies, user+password authentication (Basic, Plain, Digest, CRAM-MD5, SCRAM-SHA, NTLM, Negotiate and Kerberos), file transfer resume, proxy tunneling and more.

#### What's curl used for?

curl is used in command lines or scripts to transfer data. curl is also used in cars, television sets, routers, printers, audio equipment, mobile phones, tablets, settop boxes, media players and is the Internet transfer engine for thousands of software applications in over *ten billion installations*.

curl is used daily by virtually every Internet-using human on the globe.

#### Who makes curl?

curl is free and open source software and exists thanks to thousands of contributors and our awesome sponsors. The curl project follows well established open source best practices. You too can help us improve!

#### What's the latest curl?

The most recent stable version is **7.81.0**, released on 5th of January 2022. Currently, 79 of the listed downloads are of the latest version.

#### Where's the code?

Check out the latest source code from GitHub.

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Time to donate to the curl project?

Commercial support available!

Everything curl is a detailed and totally free book that explains basically everything there is to

#### Curl Command

Response

-H 'Authorization: eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6IjYyMjFiZWMyZmE2Y2I4N2VmMDQ5MTIyOSIsImVtYWlsIjoiaG9tZXJAc2ltcHN

"\_id":"6221bec2fa6cb87ef049122f","title":"Mozart Favourites","userid":"6221bec2fa6cb87ef049122d","\_\_v":0}]Eamonns-Mac-mini:~ edel

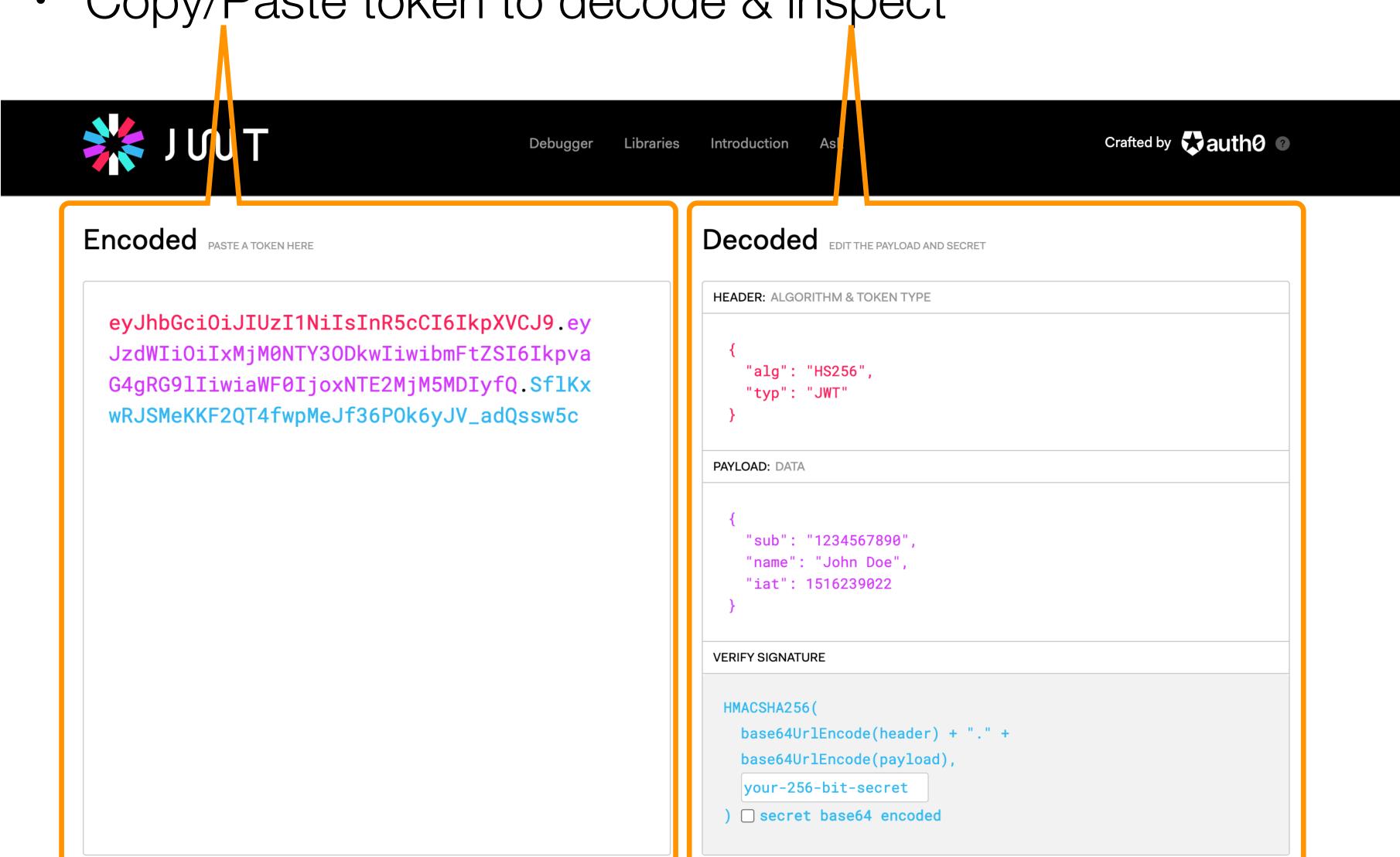
vbi5ib20iLCJpYX0i0iE2NDYzNza3NDAsImV4cCI6MTY0NiM4MiM0MH0.nwwb0YaRnLBwLcaNXfdDkIGVaWmI0cCvNkd9VVnz5kA'

-H 'accept: application/json' \

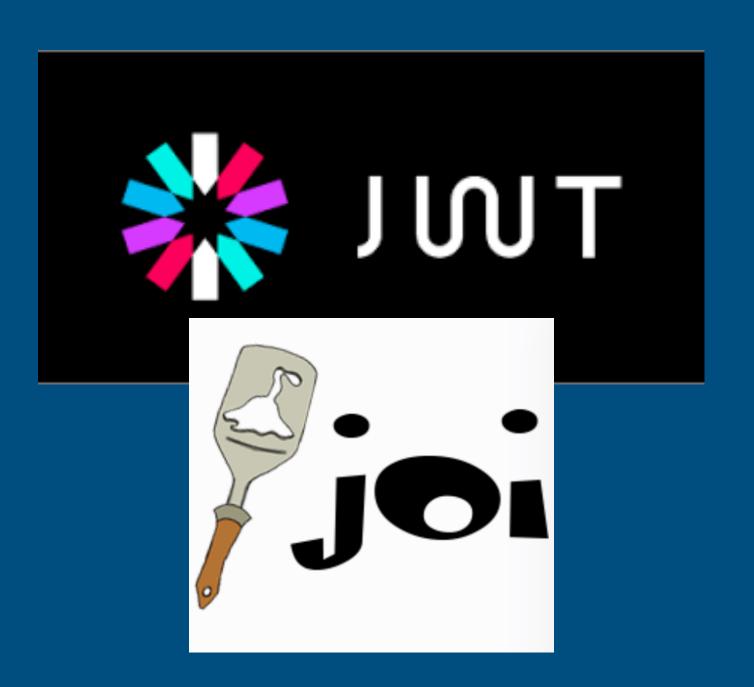
Request

Copy/Paste token to decode & inspect

jwt.io



## JWT Schemas



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