# **OJT First Day Report**

# **What is JWT?**

JSON Web Token (JWT) is an open standard (RFC 7519) which defines a way for securely transmitting between parties as a JSON object.

# **Why we need JWT?**

We need JWT because JWTs are a good way of securely transmitting information between parties because they can be signed, which means you can be sure that the senders are who they say they are. Additionally, the structure of a JWT allows you to verify that the content hasn't been tampered with. So, we need it.

# **What inside JWT?**

JSON Web Token is combination of three parts with dots. These three parts are: -

* 1. Header
  2. Payload
  3. Signature

1. **Header**

Header is a combination of two parts Algorithm (Such as HMAC SHA256 or RSA) and Type (Type of token).

1. **Payload**

Payload is the second part of JWT which contains Claims. Claims are user details or additional metadata.

Payload can have three types of claims which are: -

* 1. Registered Claim
  2. Public Claim
  3. Private Claim

1. **Signature**

Itis used to verify that the sender of the JWT is who it says it is and to ensure that the message wasn't changed along the way.

# **What easy is made while using JWT?**

The several reasons that make easier when we use JWT are: -

1. It can be sent via URL/ Post request/HTTP Header.
2. It is fast for transmission so we can make our website fast.
3. It is easier to connect website with other programming languages because it supports most of them.
4. No need to query database to get user details.