

# ASSIGNMENT #1

Date:

Difference b/w session and cookies.

## SESSIONS:

A way to store user-related data on the server temporarily, allowing a website to track and manage a user's interactions during a single visit over a limited period of time.

## COOKIE:

A small piece of data that is stored on the user's web browser by a website to remember information such as user preferences, login states, or browsing activity.

## JWT TOKEN

A JSON Web Token (JWT) is a secure way to send information between client and server. It is mainly used in web applications and APIs to verify users and prevent unauthorized access.

A JWT is JSON data secured with a cryptographic signature.

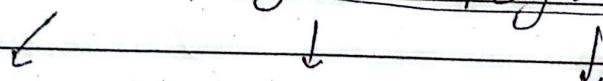
The signing can be done using these cryptographic methods.

HMAC (Hash-based msg Authentication Code):

RSA or ECDSA (Asymmetric cryptographic algorthm)

## Structure:

Header	Payload	Signature
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Date: \_\_\_\_\_

- 1. Header: Contains metadata about tokens.
- 2. Payload: Stores the claims, i.e. data being transmitted.
- 3. Signature: Ensures the token's integrity and authenticity.