Ribeka Nanjo

## W0 Reading (L 08)

- What is Jason web Token(JWT)?
- an open standard (<u>RFC 7519</u>) that defines a compact and self-contained way for securely transmitting information between parties as a JSON object.

**Compact**: it can be sent through an URL, Post parameter, or inside an HTTP header.

**Self-contained**: the payload contains all the required information about the user, to avoid querying the database more than once.

- When to use Jason web Token
  - Used as an access token to prevent unwanted access to a protected resource; login process, single-sign-on.
- Structure
- ➤ Header: JWT の署名検証を行うのに必要な情報を格納する

- ➤ Payload: やりとりに必要な属性情報
- Reserved claims predefined claims, which are not mandatory, but RECOMMENDED.
- **Public claims** should be defined in the IANA JSON Web Token Registry or be defined as a URI that contains a collision resistant namespace.
- **Private claims** the custom claims created to share information between parties that agree on using them.
- > Signature:エンコード済みヘッダー、ピリオド、ペイロードを連結したもの
  - E.g. HMAC SHA256 algorithm

- HMACSHA256(
  base64UrlEncode(header) + "." +
  base64UrlEncode(payload),
  secret)
- Don't store sensitive session data in browser storage due to lack of security.
- How Jason web Tokens work?

