Implement Backend APIs and Introduction to JWT



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Agenda

- Implement backend api
- Hook up with front end code
- About JSON Web Token

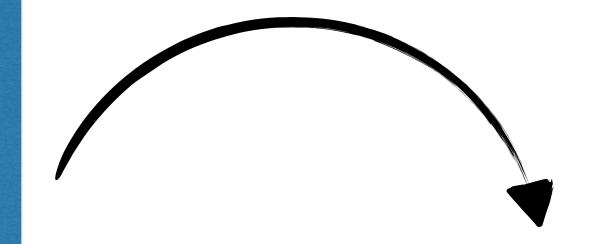
JSON Web Token (JWT)

JSON Web Token



Signed/Encrypted

JSON Web Token

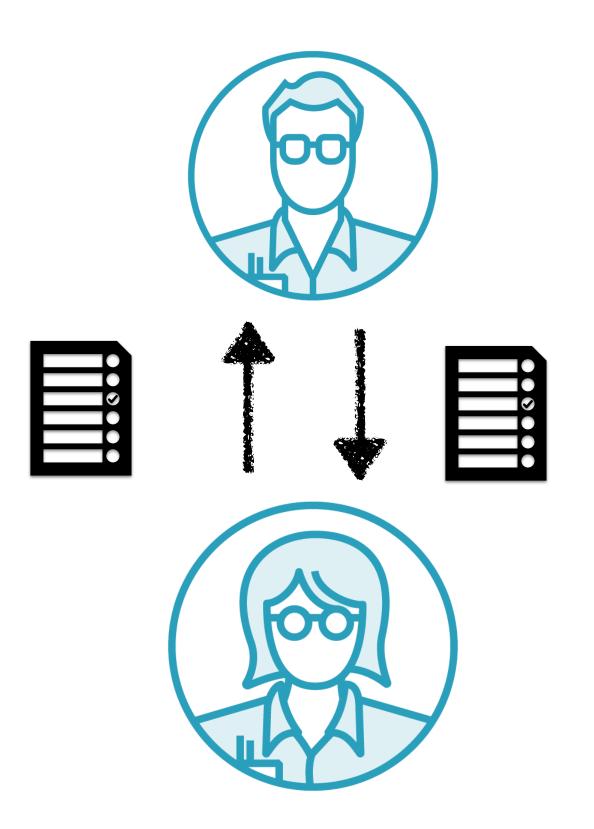


Signed JWT



JSON Web Signature (JWS)

{ key: value } Claim

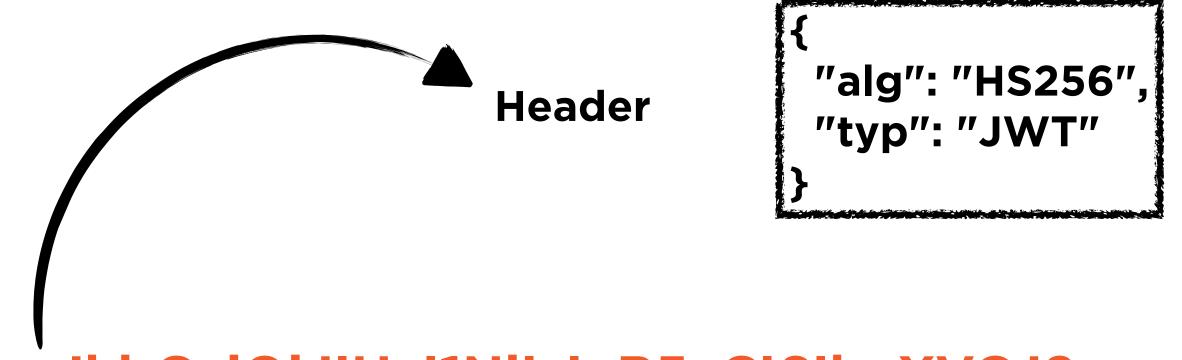


JWT Structure

eyJhbGciOiJIUzI1NiIsInR5cCl6lkpXVCJ9.

eyJzdWliOiIxMjM0NTY3ODkwliwibmFtZ\$16lkpvaG4g
RG9lliwiaWF0ljoxNTE2MjM5MDlyfQ.

SflKxwRJSMeKKF2QT4fwpMeJf36POk6yJV_adQssw5c



eyJhbGciOiJIUzI1NiIsInR5cCl6lkpXVCJ9
eyJzdWliOiIxMjM0NTY3ODkwliwibmFtZSl6lkpvaG4g
RG9lliwiaWF0ljoxNTE2MjM5MDlyfQ
SflKxwRJSMeKKF2QT4fwpMeJf36POk6yJV_adQssw5c

"iss": "1379BEN", **Payload** "aud": "create", eyJhbGciOiJIUzl1NilsInR5cCl6lkpXVCJ9 eyJzdWliOilxMjM0NTY3ODkwliwibmFtZSI6lkpvaG4g RG9lliwiaWF0ljoxNTE2MjM5MDlyfQ.

SflKxwRJSMeKKF2QT4fwpMeJf36POk6yJV_adQssw5c

HS256 - key

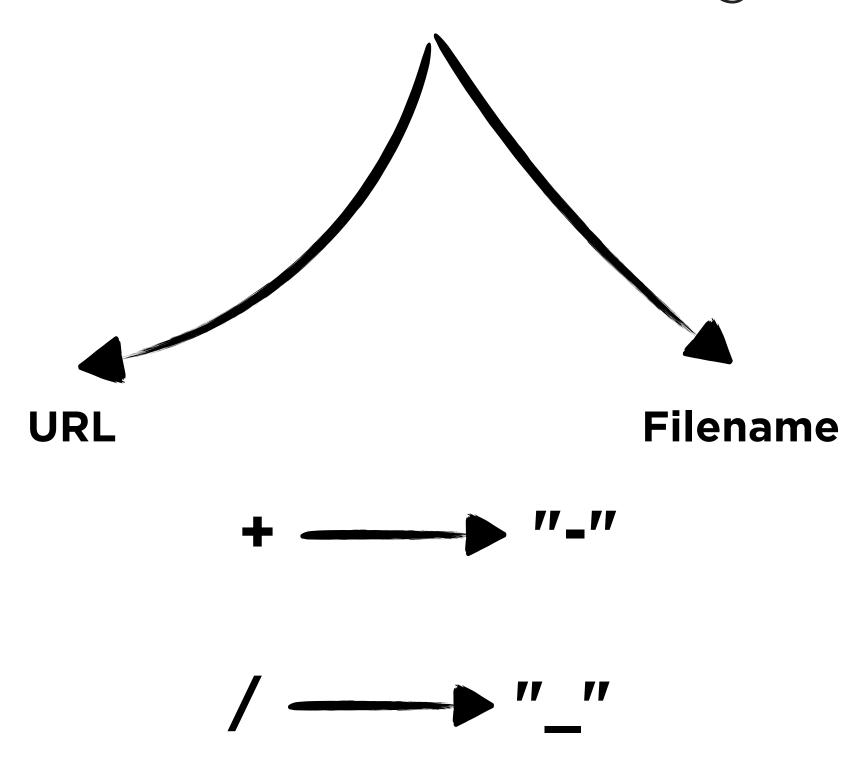


eyJhbGciOiJIUzl1NilsInR5cCl6lkpXVCJ9
eyJzdWliOilxMjM0NTY3ODkwliwibmFtZSl6lkpvaG4g
RG9lliwiaWF0ljoxNTE2MjM5MDlyfQ
SflKxwRJSMeKKF2QT4fwpMeJf36POk6yJV_adQssw5c

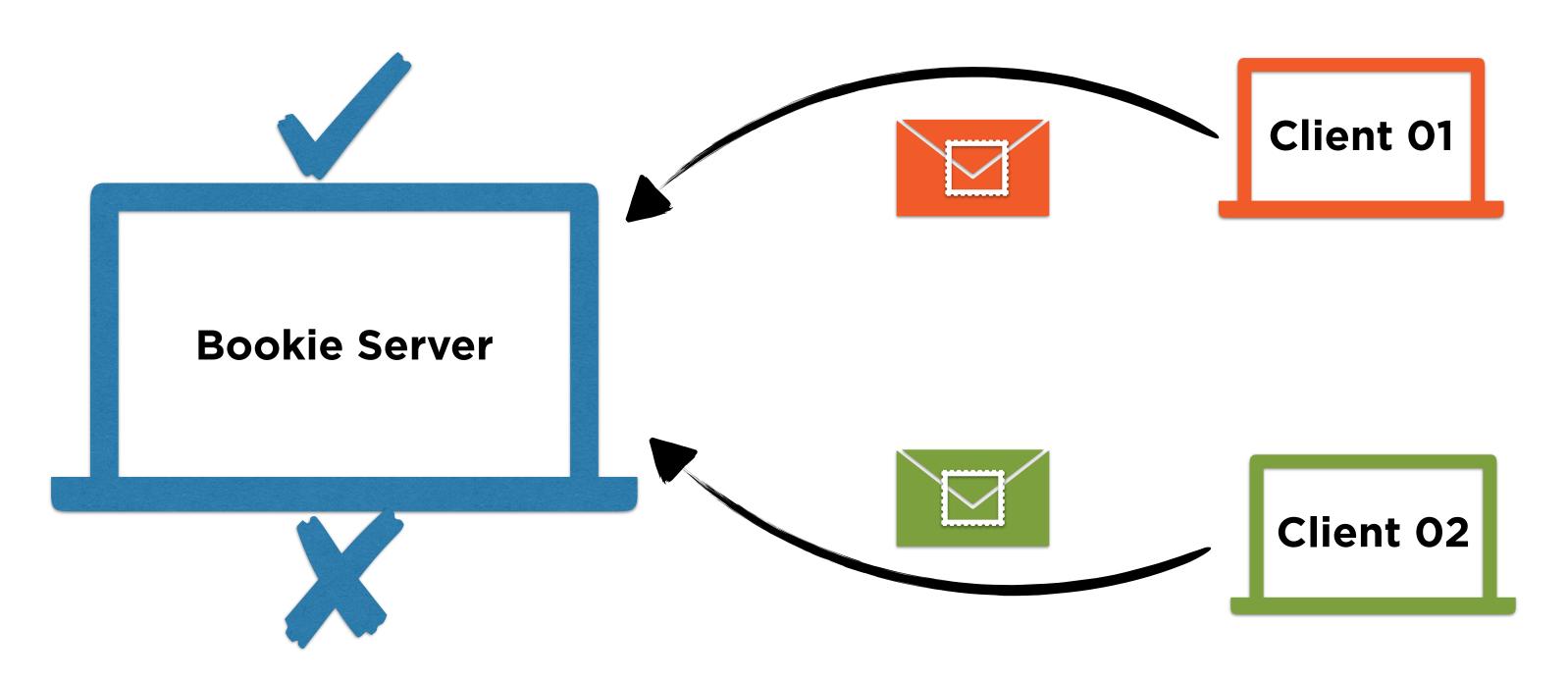
header.payload.signature

JSON Web Token

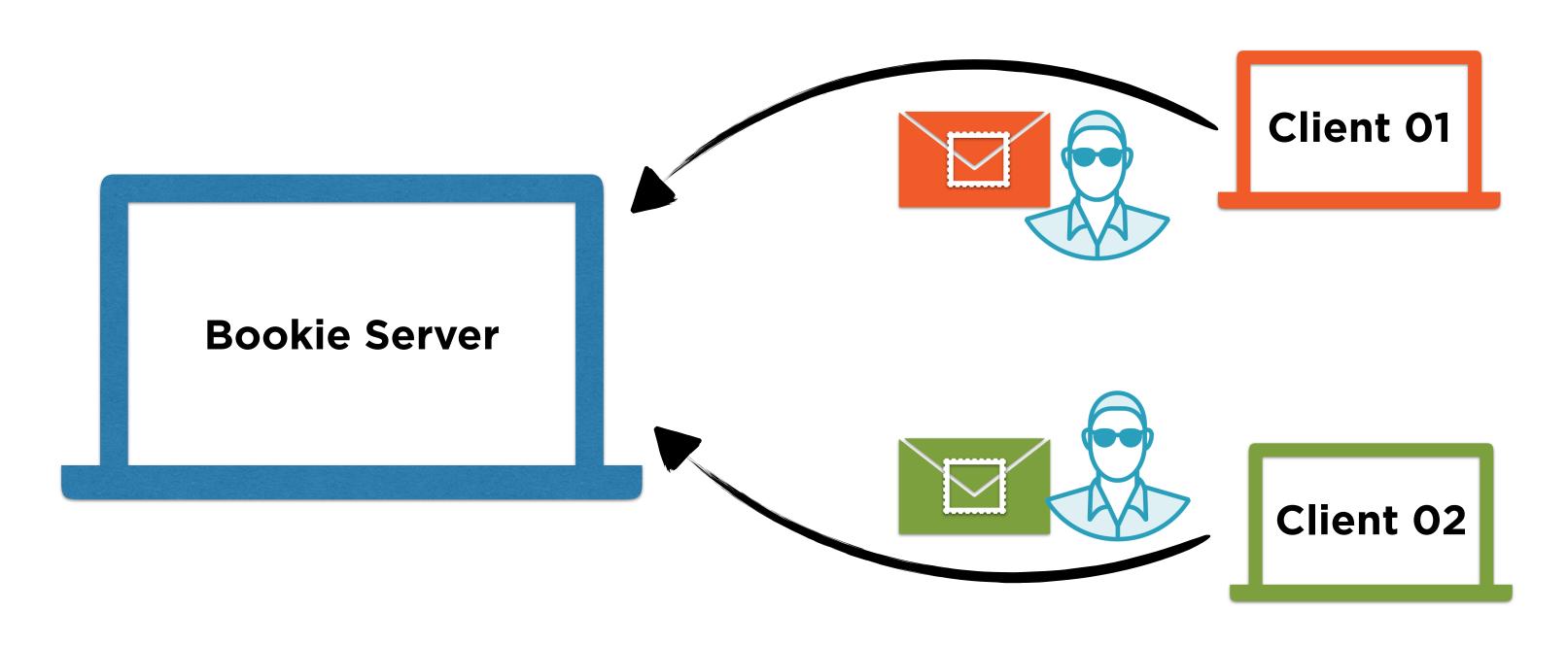
Base64URL Encoding



Digital Signature - JWT

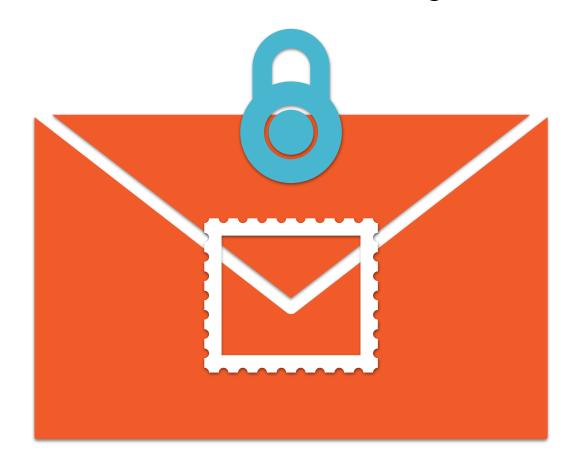


Digital Signature - JWT

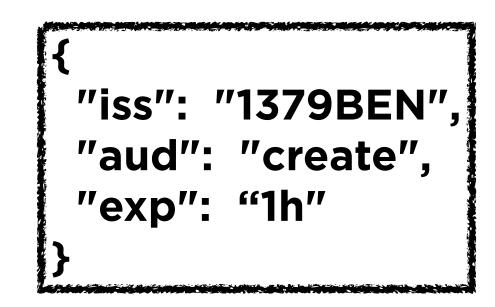


Digital Signature - JWT

Cannot modify



```
{
    "alg": "HS256",
    "typ": "JWT"
}
```





<u>jwt.io</u>

Summary

- Backend api books, users and add book
- Hook up with front end code
- About JSON Web Token