

Requirements for Our Auth Mechanism

Must be able to tell us details about a user

Must be able to handle authorization info

Must have a built-in, tamper-resistant way to expire or invalidate itself

Must be easily understood between different languages



Cookie handling across languages is usually an issue when we *encrypt* the data in the cookie



We will not encrypt the cookie contents.



Remember, JWT's are tamper resistant



You can encrypt the cookie contents if this is a big deal to you

Must not require some kind of backing data store on the server

Payload

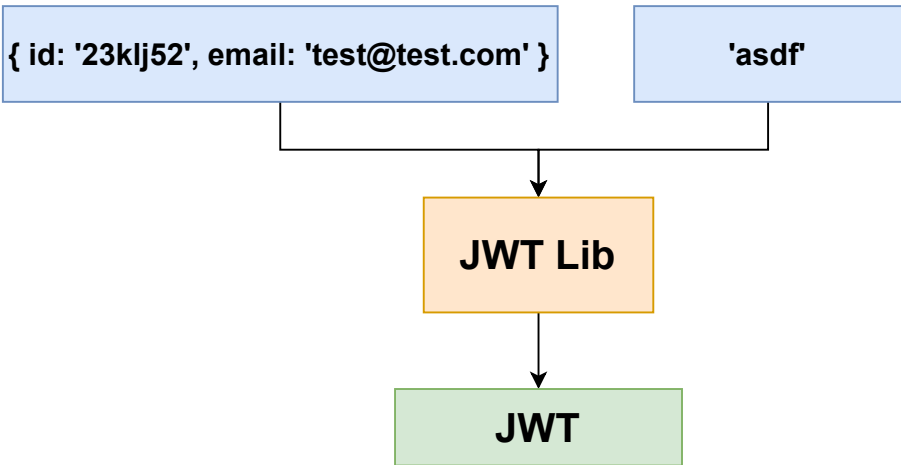
`{ id: '23klj52', email: 'test@test.com' }`

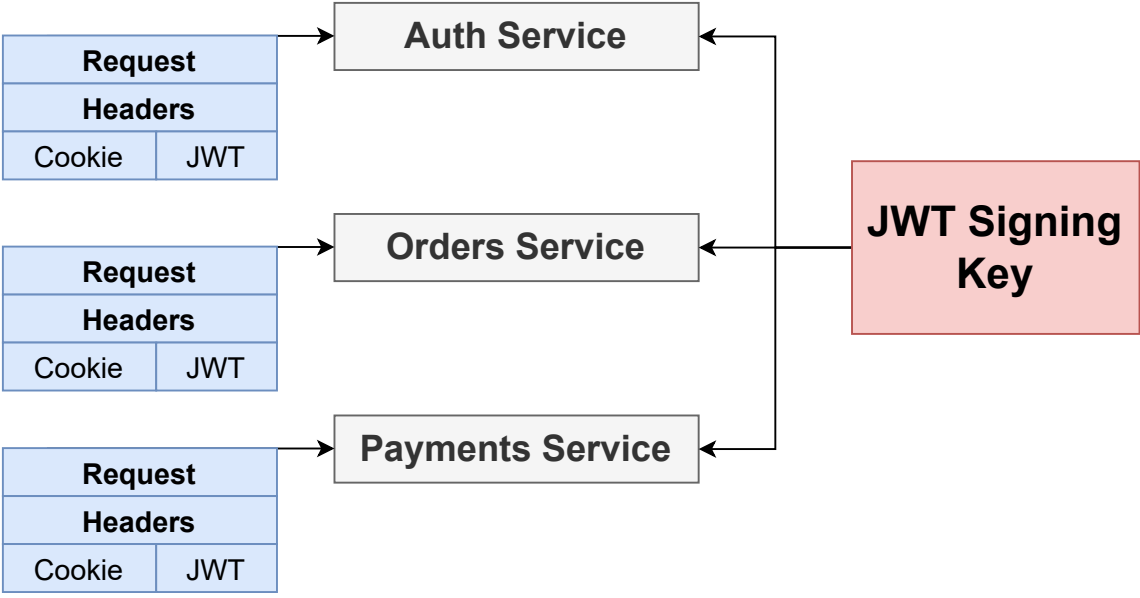
Signing Key

`'asdf'`

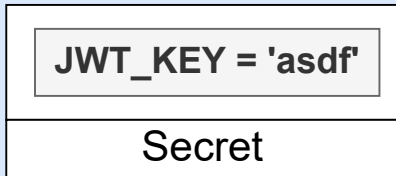
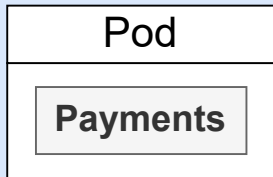
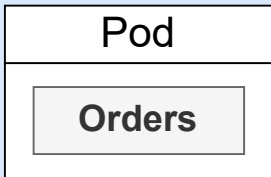
JWT Lib

JWT

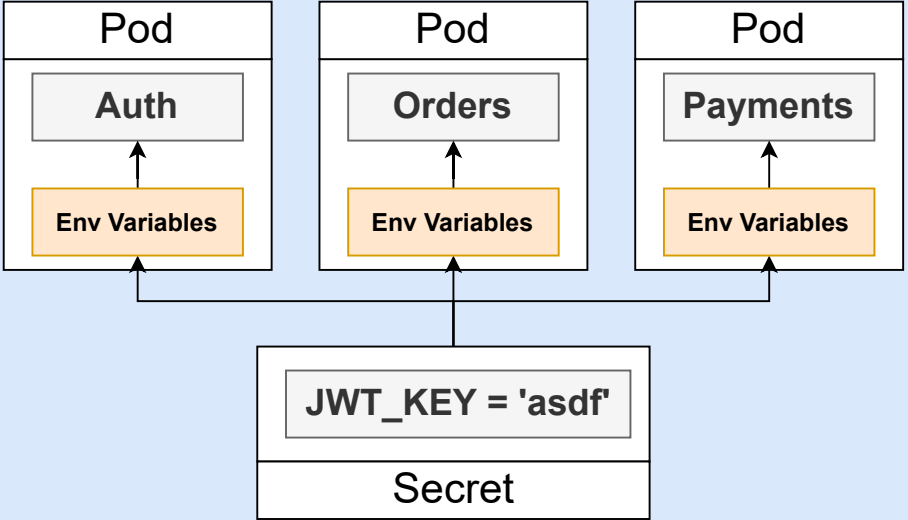




Node



Node



Creating a Secret

```
kubectl create secret generic jwt-secret --from-  
literal=JWT_KEY=asdf
```

Auth Service

Express

MongoDB

```
graph LR; subgraph AS [Auth Service]; E[Express]; end; subgraph OS [Orders Service]; R[Ruby on Rails]; end; subgraph PS [Payments Service]; J[Java Spring]; end; E --> M[MongoDB]; R --> My[MySQL]; J --> P[Postgres];
```

Orders Service

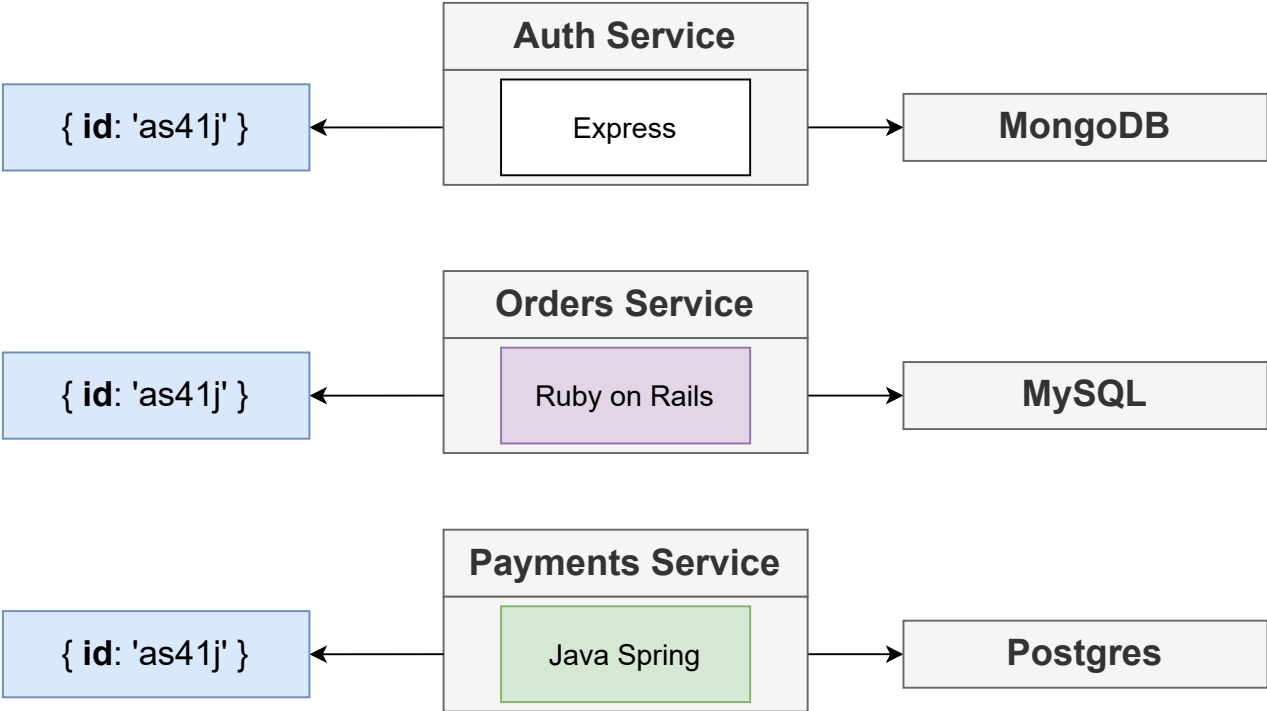
Ruby on Rails

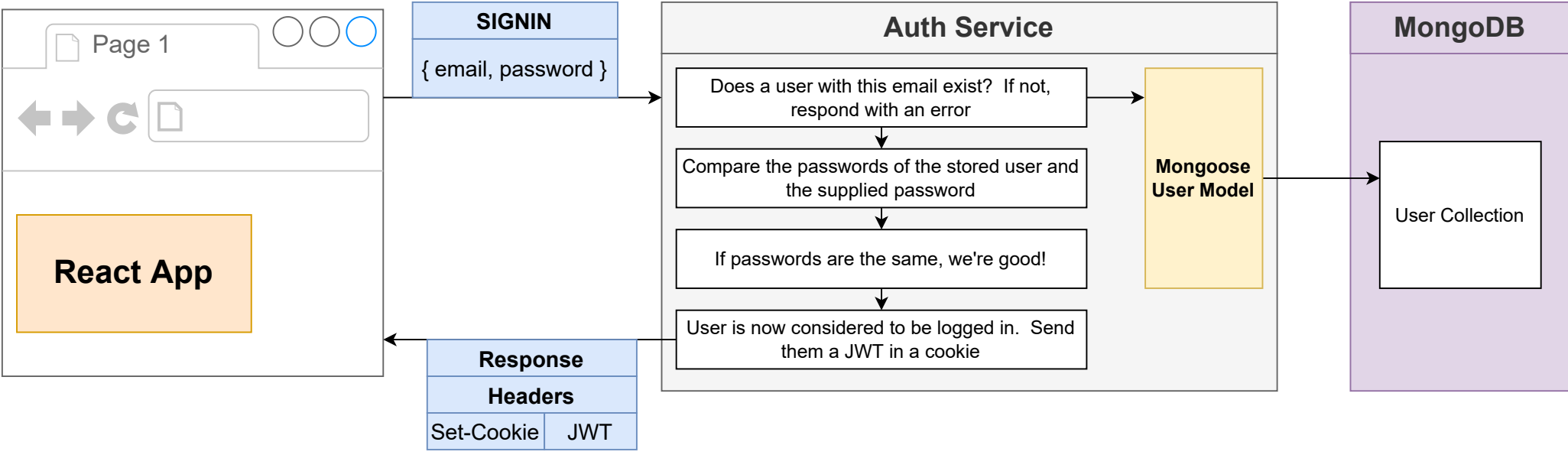
MySQL

Payments Service

Java Spring

Postgres





Auth Service

Current User Request

Headers

Cookie

'laskdjf'

Does this user have a 'req.session.jwt' set?

If it is not set, or if the JWT is invalid, return early

If yes, and JWT is valid, send back the info stored inside the JWT (the payload)

{ currentUser: null }

{ currentUser: { id: '...', email: '...' } }

