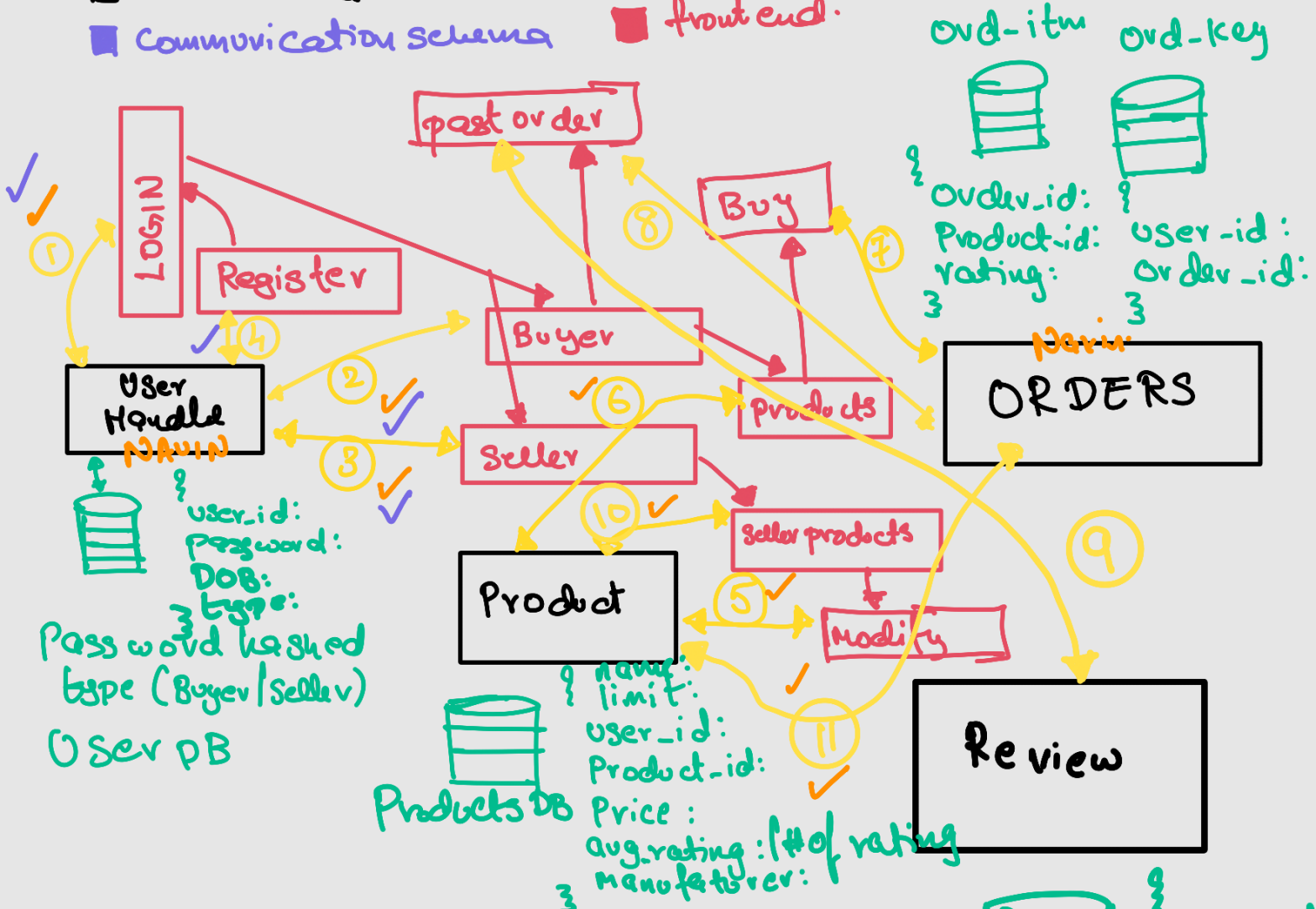
Modular Shop System design.

- Communication flow (dependencies)
- Micro Service
- Communication schema
- Database & details. (Move)
- frontend.



Communication design.

I. user handle

1. from Login Page

✓ /login (post)

Request

```
{
  username:
  password:
}
```

```
{ Response:
  Status: true/false
  claims: claims
  token: string/null
}
```

HTTP REDIRECT (Buyer/Seller/none) → frontend reads to read claims & redirect manually

(2/3) from Buyer & Seller [AUTH] ✓

/edit (post)

{
username:
Password:
}

HTTP header
token

{
status: t/f
}

should trigger a logout (delete session items & redirect to /login page)

(4) Register

/register (post)

{
username:
password:
DOB:
type:
}

{
status: t/f
}

II Products

(10) from seller products

/sellerproducts (get) [AUTH]

Req {}

Header

token

Response

{
items: [
{
product-id:
price:
limit:
avg rating:
# of rating:
manufacturer:
},...
]}

(11) from seller [AUTH]

/product (post)

{
name:
price:
limit:
manufacturer:
}

{
ProductId
}

Token header

(5) /modifyproduct [AUTH] (post)

{
Product_id: "same as old"
name:
price:
limit:
manufacturer:
}

{
Status:
msg:
}

ex /checkproducts

{
ProductId:
}

{
status: true/false
Product: {
id
price
limit
...
}
}

(6) /products (get)

{}

Token header

[AUTH]

Response

{
items: [
{
product-id:
price:
limit:
avg rating:
# of rating:
manufacturer:
},...
]}

III Orders

⑦ /buy (post) (possibly hit this endpoint for "checkout")

```
{
  products: [
    product-id,
    product-id, ...
  ],
}
```

```
{
  status:
  amount:
}
```

access product records from DB in order to calculate total amount

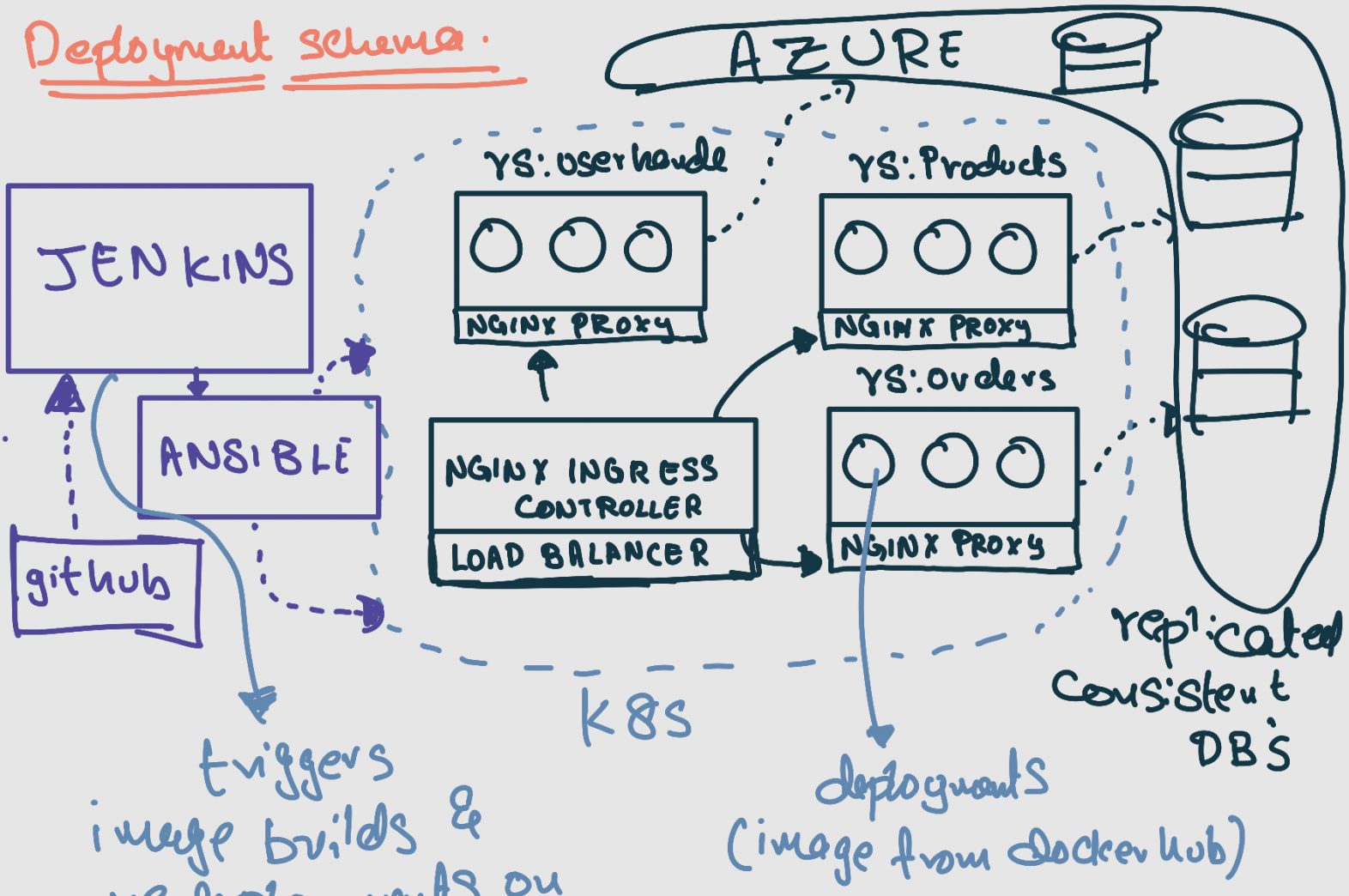
⑧ /post orders

```
{
}
```

Cookie: token

```
{
  status:
  claims:
  orders: [
    {
      order-id:
      products: [{}, {}, ...]
    },
    {
      order-id:
    }
  ]
}
```

Deployment schema.



Remaining tasks:

i) (last) Simple test with k8s deployment

~~ii) Products management page (for seller)~~

~~iii) Order display page (seller & buyer)~~

~~iv) Jenkins github triggered deployment~~

~~v) frontend containerisation~~

~~vi) Cart backend connection~~

vii) Do hosting