

user 1st Step

* username
* email
* password

Browser Window

http://www.url.com

Sign up

username

email

password

username
→ required
→ minlength
→ maxlength
→ unique

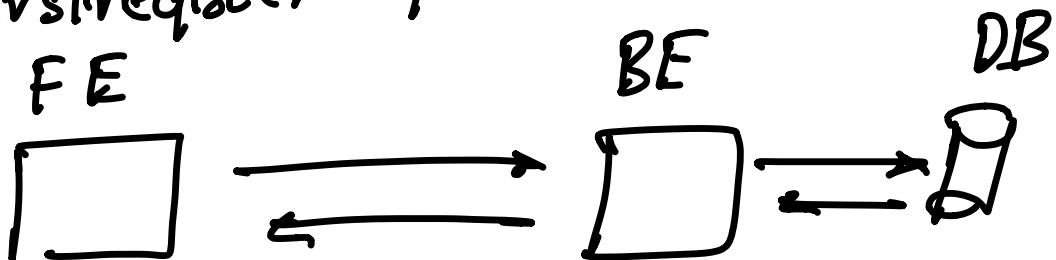
email
required
unique
custom
validation
→ email
format

password
required
minlength
maxlength

2nd step

UserController
- Register

users/register - post

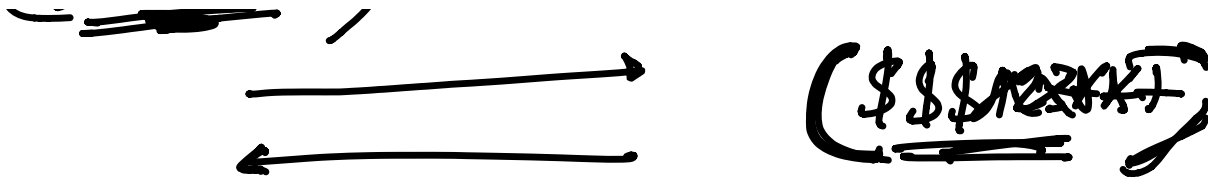


```
{username: '',  
  email: '',  
  password: 'secret123',  
}
```

3rd password encryption

→ bcrypt is — oneway hashing
algo

(secret123)



mongoose middleware
* pre('save') ()

* Controller
=
=
=
• save()

4th - login

action-login

UserController
login

plain - encrypted
true
false

4.1

Browser Window

http://www.url.com

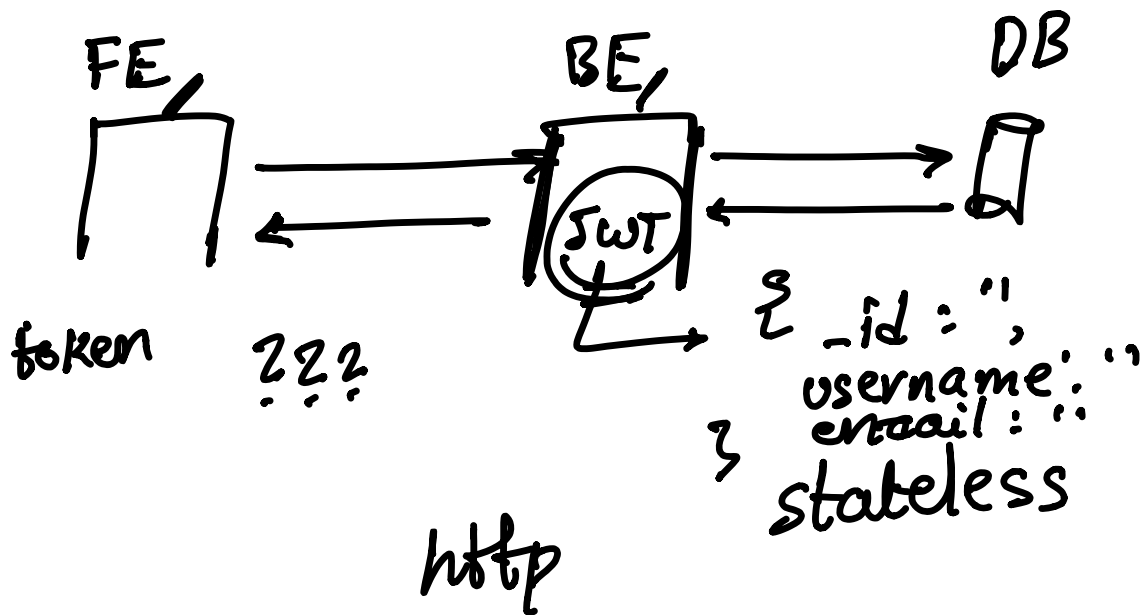
Search

LOGIN

email

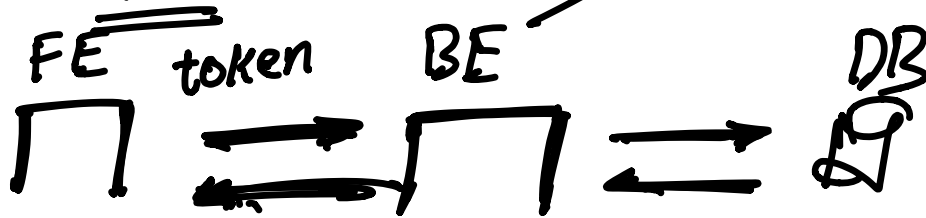
password

4.2 generate token
→ json web token (JWT)



⑤ private routes

/users/account



check token

```
JSON - { -id: "",  
          username: "",  
          password: ""  
}
```

⑥ Logout -

①
remove token
from FE

② expire a token