



NESTJS

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📍 ITI-SMART VILLAGE

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DAY 3

- Authentication [login - registration]
 - Hash Password
 - Verify Pass
- Authorization [Permissions]
 - JWT (Json Web Token)
 - Guard

Authentication vs Authorization

Registration

Login



First Name

Last Name

Email

Password

Re-Enter Password

Sign Up

Email

Password

Login



Create [POST]



Read [GET]



Update [PUT - PATCH]



Delete [DELETE]

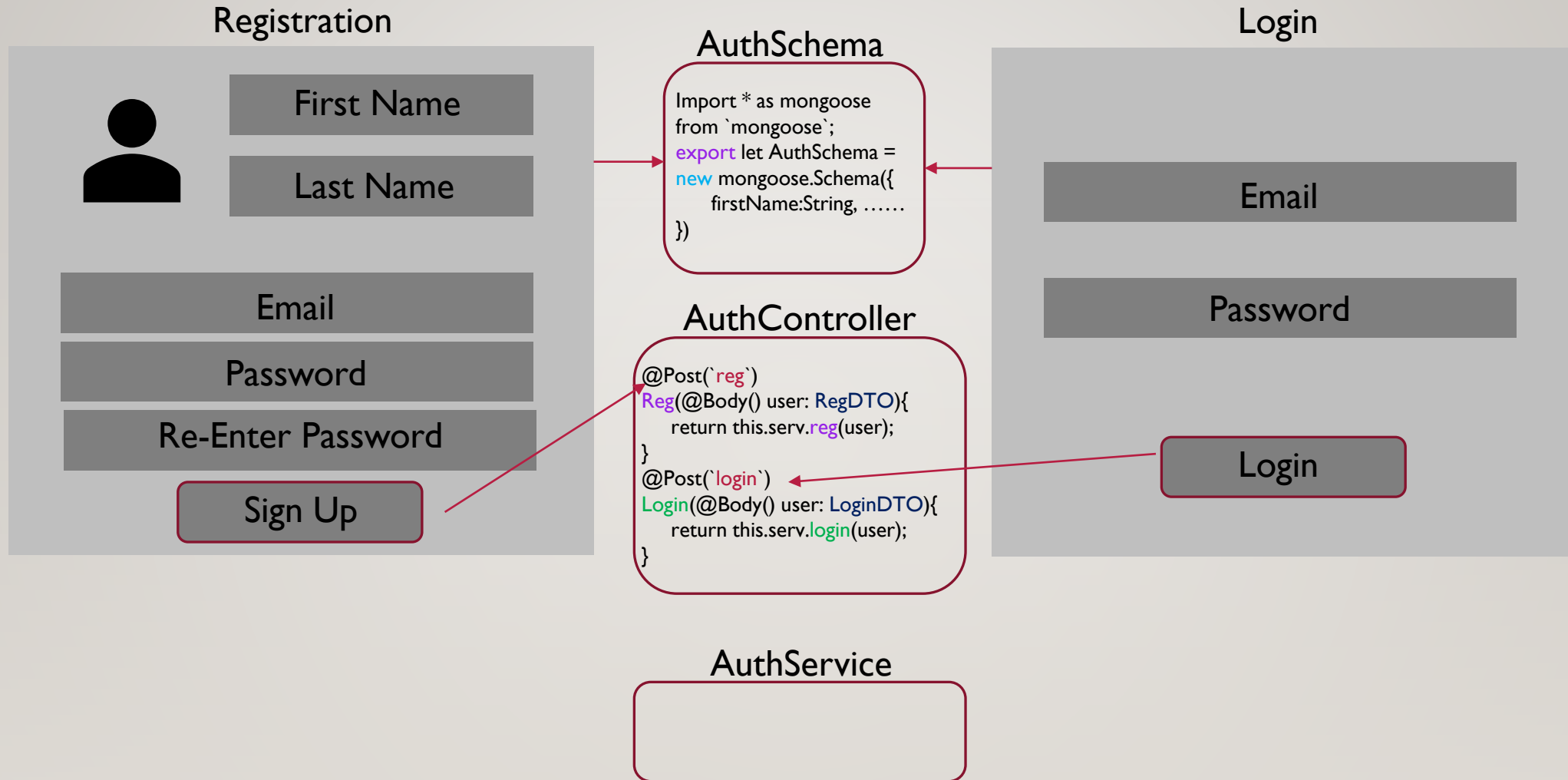
Authentication

Who you are?

Authorization

What can you do?

Authentication



Authentication

AuthService

Reg(){

1- Check Email

a- if Exist → return `already exist`

b- if Not Exist → go to next step

2- Hash Password [bcrypt]

a- npm i -D bcrypt @types/bcrypt

3- Add To DB

}

Login(){

1- Check Email

a- if Not Exist → return `invalid`

b- if Exist → go to next step

2- Verify Password [bcrypt.compare()]

a- if Not true → return `invalid`

b- if true → go to Next Step

3- response [JWT] with (cookie - header)

}

JwtService
@Injectable

JwtModule at app.module.ts
JwtModule at auth.module.ts

a. npm i --save @nestjs/jwt passport-jwt passport-local
b. npm i --save-dev @types/passport-local

Authorization

What can you do?

Decorator

```
Import {SetMetadata} from '@nestjs/common'
Import { Role } from ''
export const ROLES_KEY = 'roles'
export const UserRoles =
  (...roles: Role[ ]) =>
    SetMetadata(ROLES_KEY, roles)
```

Enum

```
export enum Role{
  User = 'user',
  Admin = 'admin'
}
```

OrderController

```
@UserRoles(Role.Admin)
@Post()
Create(){
  ////
}
```

ProductController

```
@UserRoles(Role.Admin)
@Post()
Create(){
  ////
}
```

Guard

Ur Logic : /**/

```
class RolesGuard implements CanActivate{
  canActivate(){
    1- Reflector → Roles ??
    2- context → header – body – cookie ...
    3- return true / false
  }
}
```

app.module.ts

```
Import {APPGUARD} from '@nestjs/core'
@Module({
  Providers: [
    AppService,
    {
      provide:APP_GURAD,
      useClass: RolesGuard
    }
  ]
})
```