NESTJS

ENG. MOSTAFA MAHMOUD HELMY

📍 ITI-SMART VILLAGE
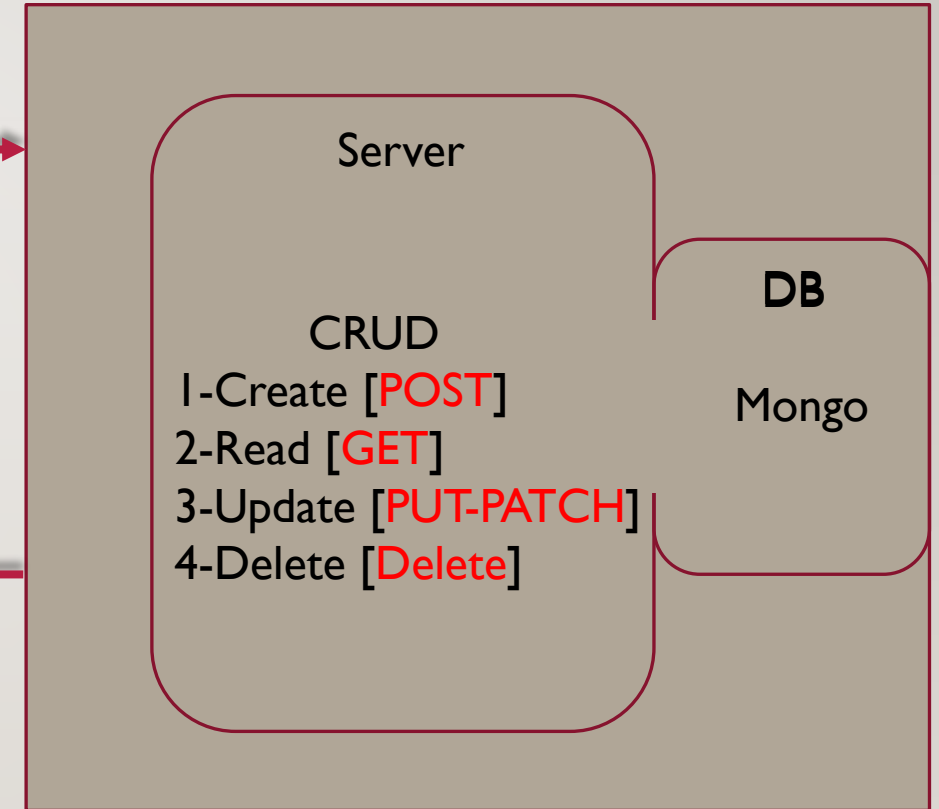
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Client-Side VS Server-Side

Client

Angular

React

Vue

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API

Server

Req →

← Res

CRUD
1-Create [POST]
2-Read [GET]
3-Update [PUT-PATCH]
4-Delete [Delete]

DB

Mongo
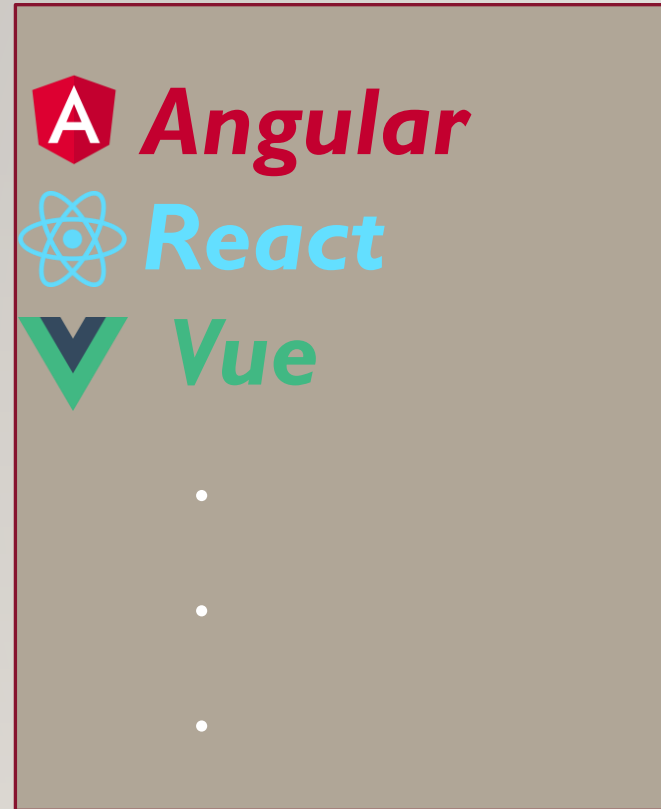
Rest API Endpoints

Client

Angular

React

Vue

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Server

Get All Students:
domain.com/students

Get a single Student:
domain.com/students/:id

Get All Courses:
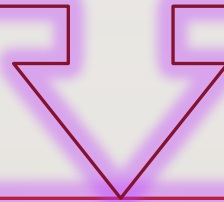domain.com/courses

Get a single Course:
domain.com/courses/:id

⚡ Steps

1) Install NodeJs, npm
   a) https://nodejs.org/en/download/
2) Install TypeScript
   a) npm i typescript -g

1) npm i @nestjs/cli –g
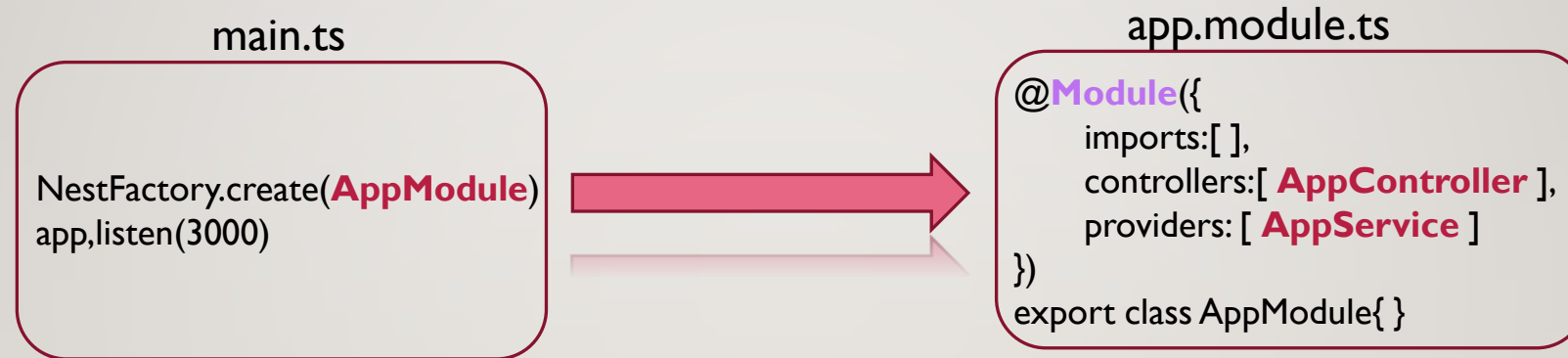2) nest new ProjName
3) To Run
   a) npm run start:dev
   b) nest start --watch

Nest Architecture

main.ts

NestFactory.create(**AppModule**)
app,listen(3000)

Nest Architecture

main.ts

NestFactory.create(**AppModule**)
app,listen(3000)

app.module.ts

@**Module**({
    imports:[ ],
    controllers:[**AppController**],
    providers: [**AppService**]
})
export class AppModule{ }

Nest Architecture

app.controller.ts

```
@Controller( )
export class AppController{
    constructor(private AppService: AppService){ })
    @Get( )
    getHello(){ return this.appService.getHello( ) }
}
```

app.module.ts

```
@Module({
    imports:[ ],
    controllers:[ AppController ],
    providers: [ AppService ]
})
export class AppModule{ }
```

main.ts

```
NestFactory.create(AppModule)
app,listen(3000)
```

app.service.ts

```
@Injectable( )
export class AppService{
    getHello(){ return "Hello World"}
}
```

Nest Architecture

UsersModule

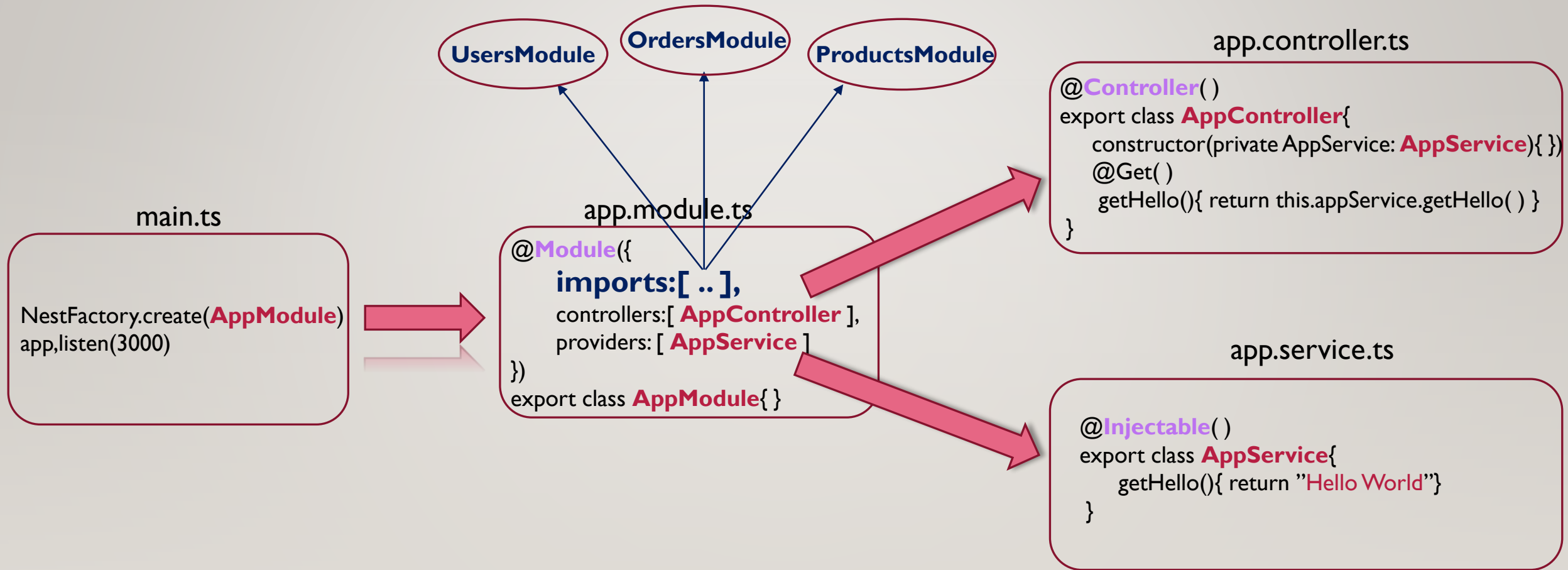OrdersModule

ProductsModule

app.controller.ts

```
@Controller( )
export class AppController{
    constructor(private AppService: AppService){ })
    @Get( )
    getHello(){ return this.appService.getHello( ) }
}
```
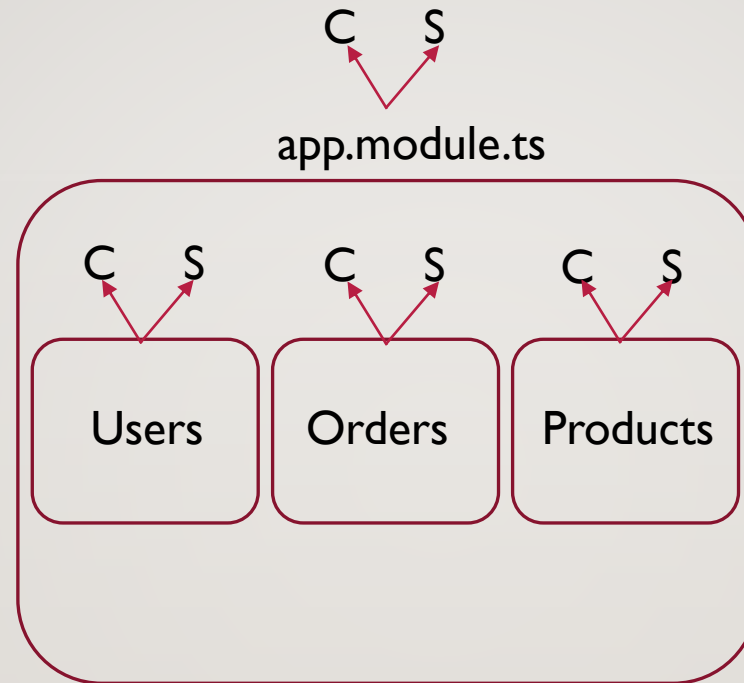
main.ts

```
NestFactory.create(AppModule)
app,listen(3000)
```

app.module.ts

```
@Module({
    imports:[ .. ],
    controllers:[ AppController ],
    providers: [ AppService ]
})
export class AppModule{ }
```

app.service.ts

```
@Injectable( )
export class AppService{
    getHello(){ return "Hello World"}
}
```

Nest Architecture

Commands
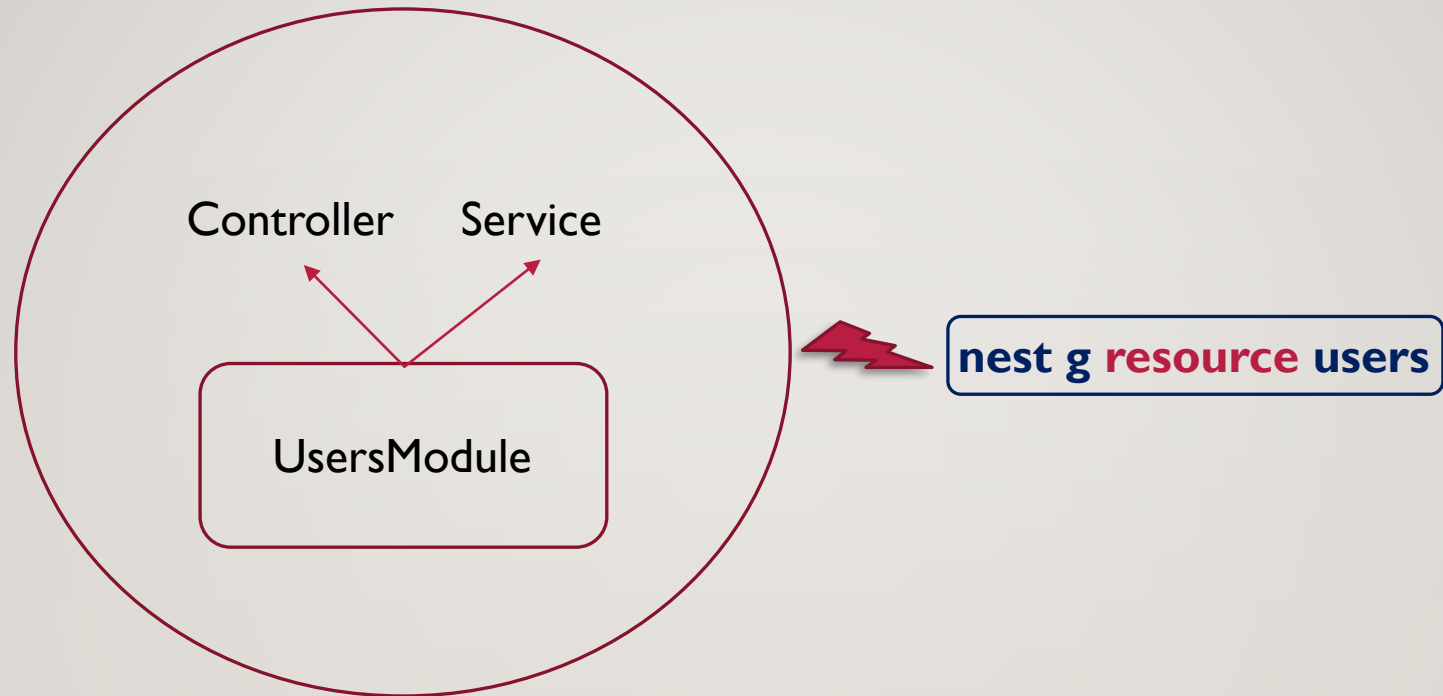
nest g controller users ⚡ Controller   Service ⚡ nest g service users

UsersModule ⚡ nest g module users

Commands

Controller   Service

UsersModule
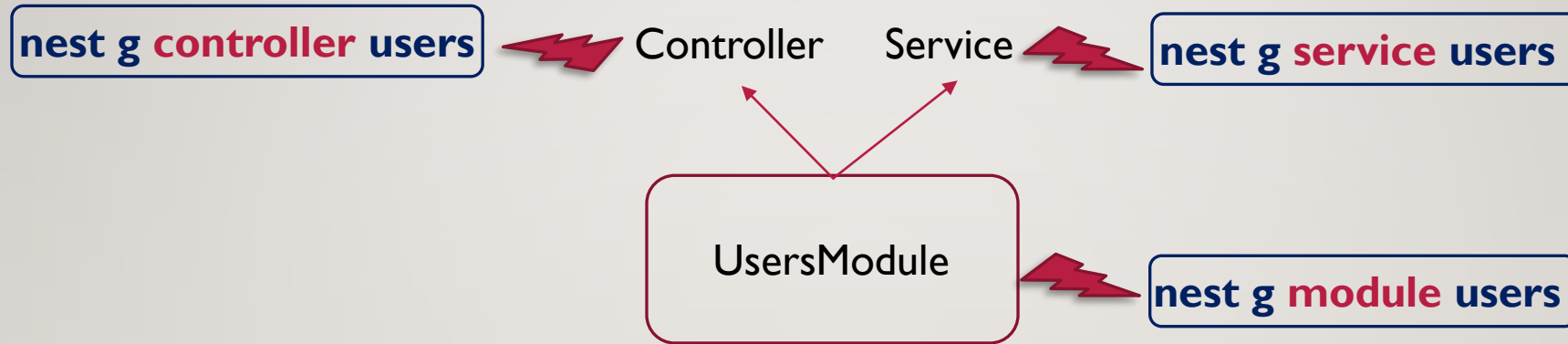
nest g resource users

npm i @nestjs/mapped-types