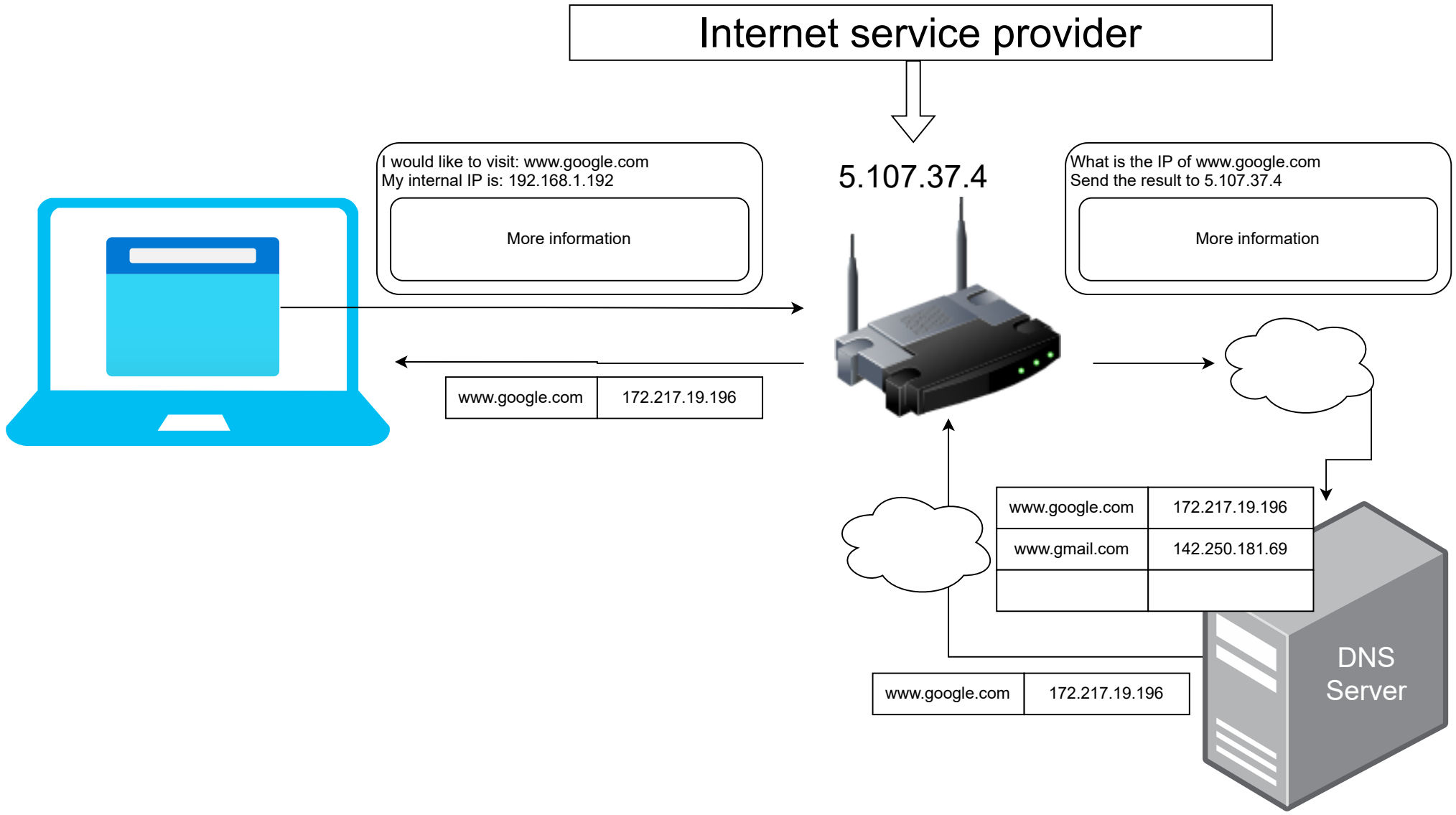
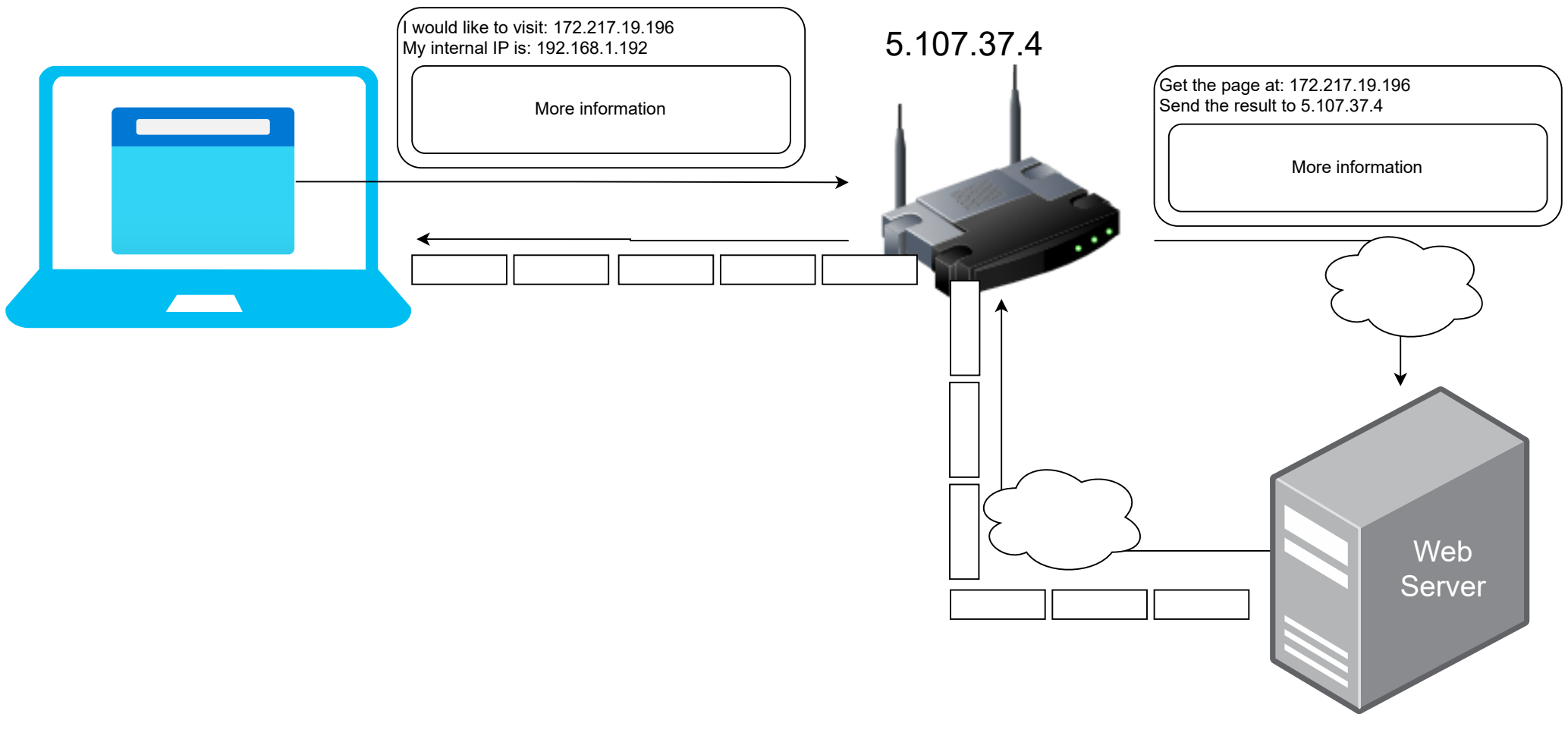
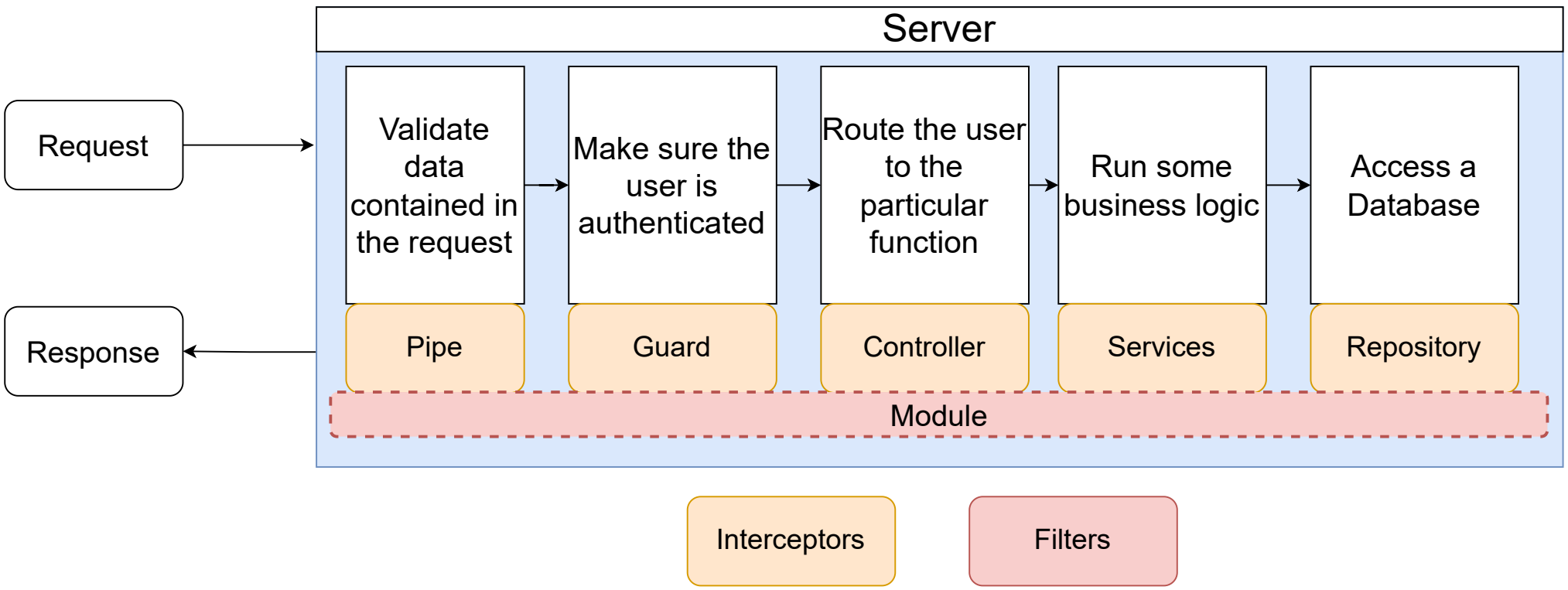
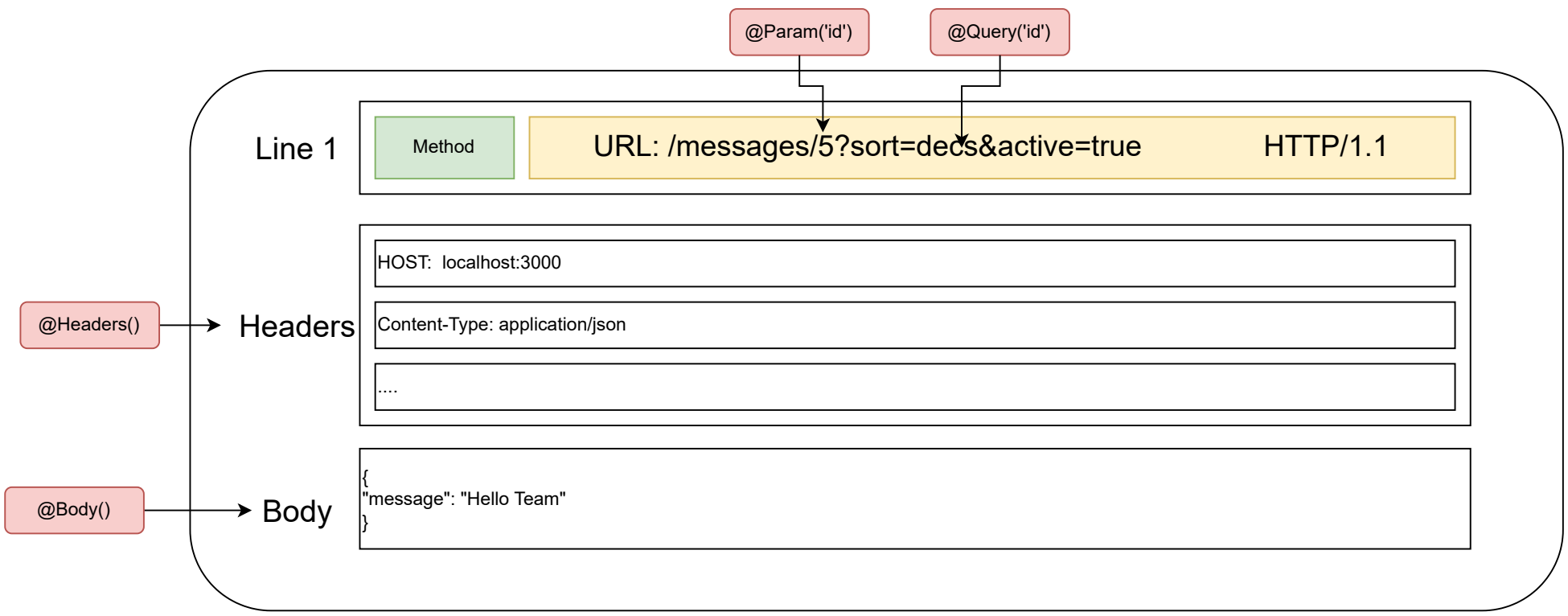

Internet service provider
I would like to visit: www.google.com
My internal IP is: 192.168.1.192
More information
5.107.37.4
What is the IP of www.google.com
Send the result to 5.107.37.4
More information
www.google.com
172.217.19.196
www.google.com
172.217.19.196
www.gmail.com
142.250.181.69
www.google.com
172.217.19.196
DNS
Server

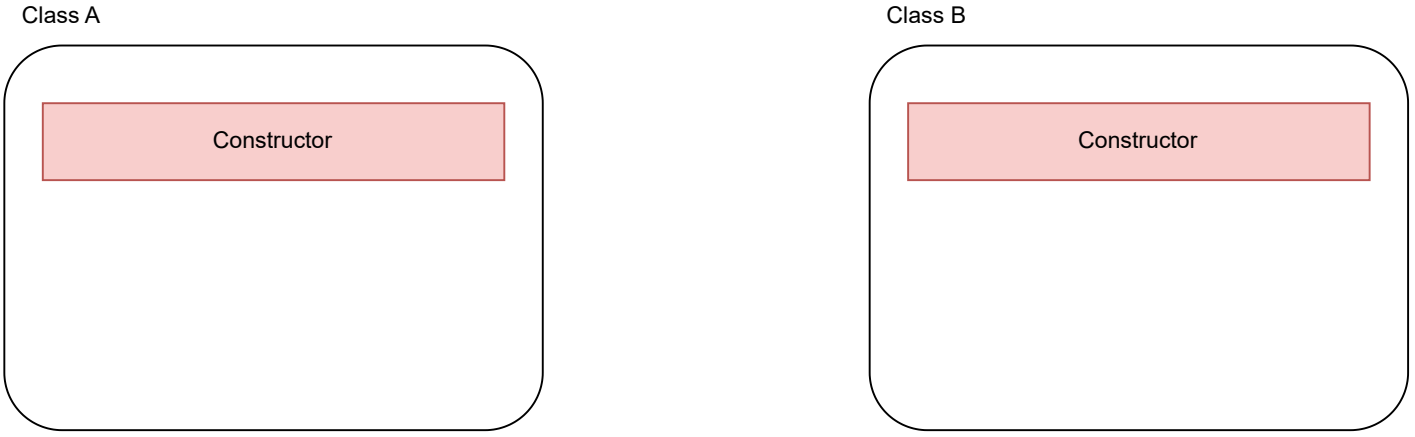

I would like to visit: 172.217.19.196
My internal IP is: 192.168.1.192
More information
5.107.37.4
Get the page at: 172.217.19.196
Send the result to 5.107.37.4
More information
Web
Server


Server
Request
Response
Validate data contained in the request
Make sure the user is authenticated
Route the user to the particular function
Run some business logic
Access a Database
Pipe
Guard
Controller
Services
Repository
Module
Interceptors
Filters

Https Request



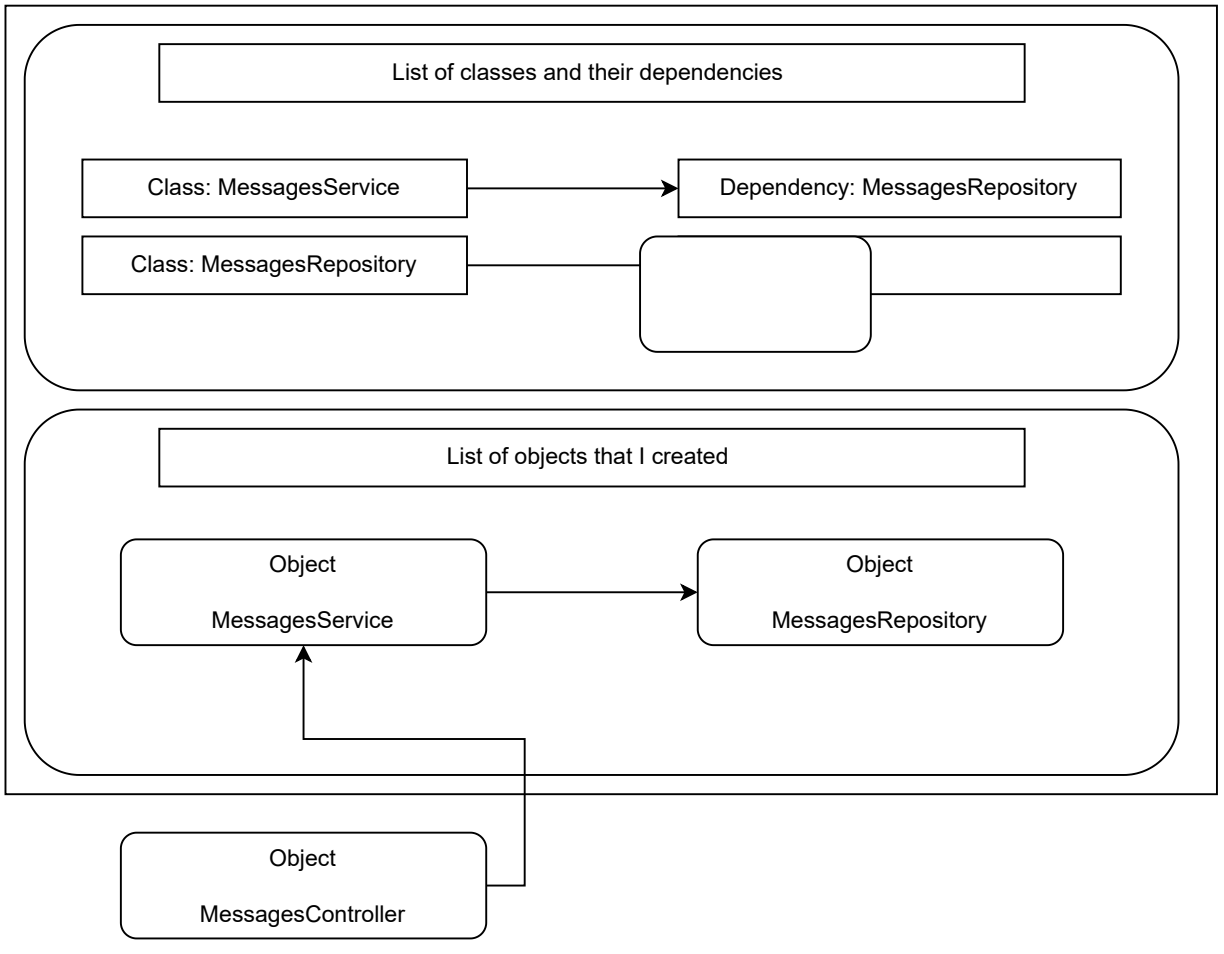
# Inversion of control

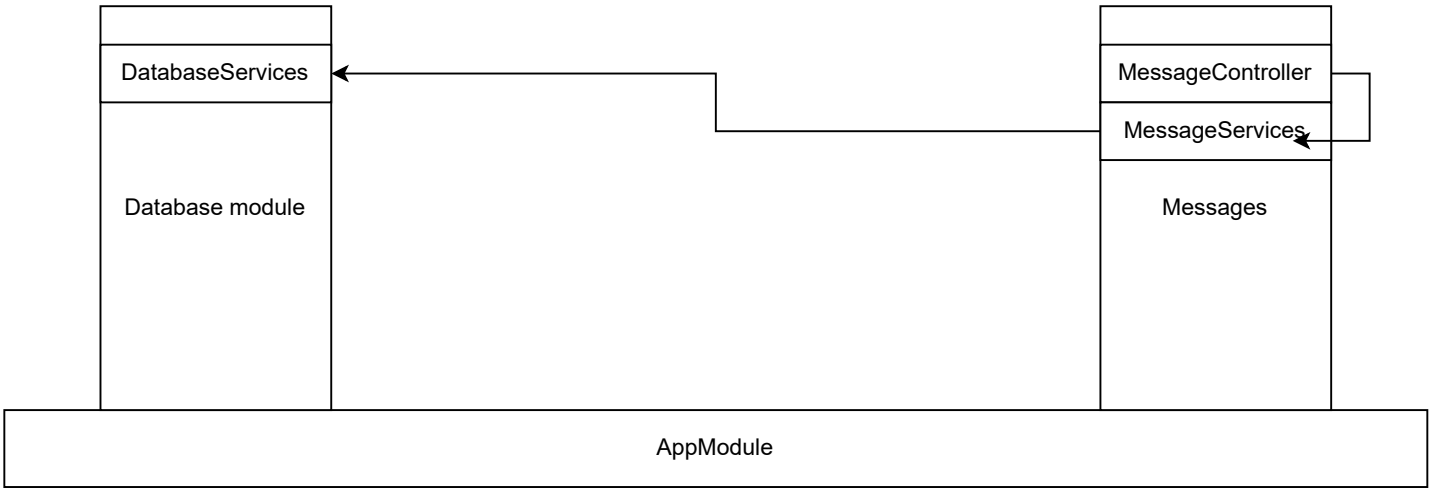


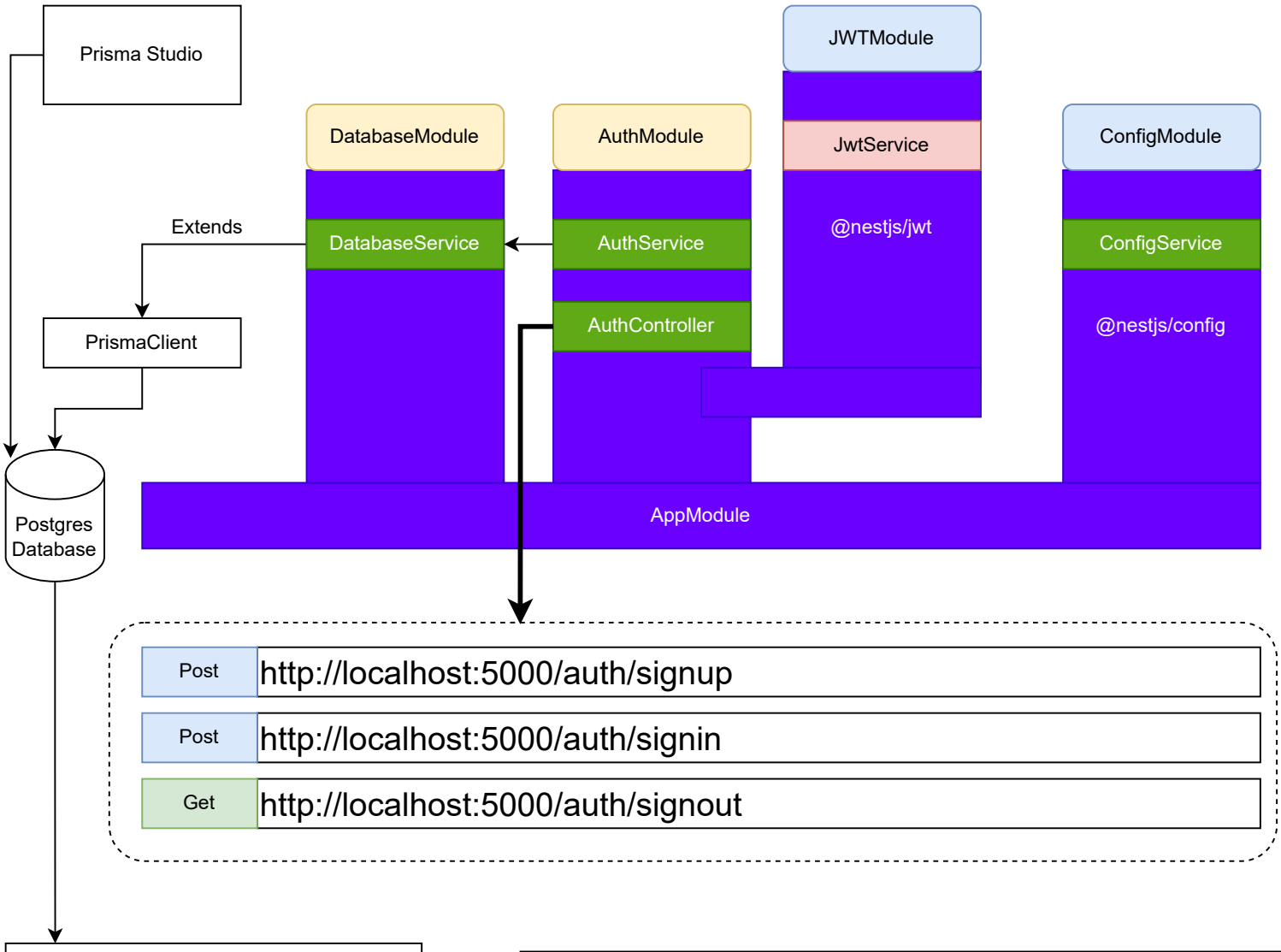

Class A is depend on Class B.
It needs an object of Class B.

1. Instantiate an object of class B within the constructor of Class A
2. Pass an object of Class B as a parameter to the constructor of Class A
3. Pass a reference of an interface that represent the functionality of class B

# Nest DI Container




DatabaseServices
Database module
MessageController
MessageServices
Messages
AppModule




```
model User {
  id String @unique @default(uuid())
  email String @unique()
  hashedPassword String
  createdAt DateTime @default(now())
  updatedAt DateTime @updatedAt()
}
```

```
DATABASE_URL="postgresql://postgres:password@127.0.0.1:5432/auth"
POSTGRES_USER=postgres
POSTGRES_PASSWORD=password
POSTGRES_DB=auth
JWT_ACCESS_SECRET="^Y$R3e(O8i&U)"
JWT_REFRESH_SECRET="%T3e@W0p^Y$R3e(O8i&U)"
```

```
version: '3.3'

services:
  postgres:
    container_name: postgres
    image: postgres:latest
    restart: always
    environment:
      POSTGRES_USER: ${POSTGRES_USER}
      POSTGRES_PASSWORD:
${POSTGRES_PASSWORD}
      POSTGRES_DB: ${POSTGRES_DB}
    ports:
      - '5432:5432'
```


```
DATABASE_URL="postgresql://postgres:password@127.0.0.1:5432/auth"
POSTGRES_USER=postgres
POSTGRES_PASSWORD=password
POSTGRES_DB=auth
JWT_ACCESS_SECRET="^Y$R3e(O8i&U)"
JWT_REFRESH_SECRET="%T3e@W0p^Y$R3e(O8i&U)"
```