Project2-week3

# Hospital Appointment

13.05.2024

Jingwen Li Youzhen Duan

#### C O N T E N T S

# Description

1. During an appointment, bill of a patient is being generated. This bill will somehow influence patient's balance of insurance.

2. If a patient has insurance, then the insurance company will pay their medical cost according to their claim rate. If not, then the patient will pay all by herself or himself.

# Tasks



- 1 generate bills
  - -Youzhen Duan

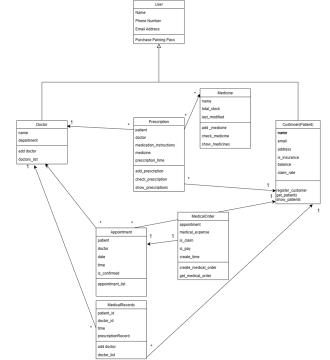
- 2 insurance claims
  - -Jingwen Li

## Previous tasks-Week1&2

- 1-1 register a new patient -Jingwen Li
- 1-2 make an appointment -Youzhen Duan
- 2-1 record prescriptions -Jingwen Li
- 2-2 update medical records
  - -Youzhen Duan
- 2-3 retrieve patient's medical history -Youzhen Duan

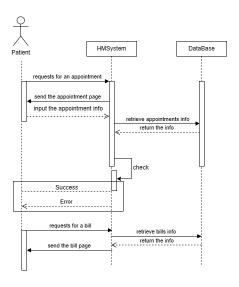
# Diagrams







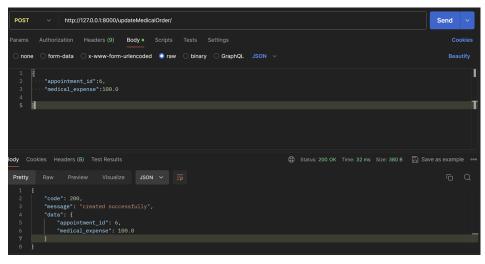
## Sequence Diagram



## Implemented functions

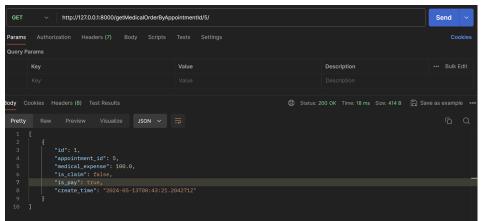
## Implemented functions

#### createMedicalOrder



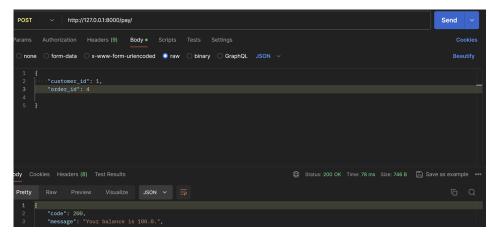
## Implemented functions

#### get Medical Order By Appoit mentld



## Implemented functions-pay

pay with claim\_tate=0 successfully and check balance





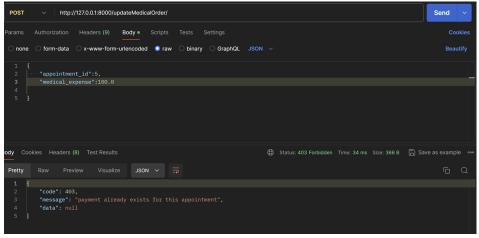
## pay with claim\_tate=0.2 successfully and check balance

```
balance -= (1 - claim_rate)<u>*</u> expense
```

```
"patient":
     "name": "Patient16",
    "email": "p16@example.com",
"address": "Strasse58",
     "is_insurance": true,
     "balance": 840,
     "claim_rate": 0.2
"doctor":
     "name": "Doctor9",
     "department": "department"
"date": "28-03-2024",
"time": "12:00",
"is_confirmed": true
```

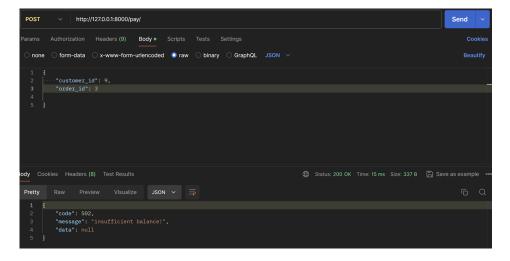
## Implemented functions-pay

#### payment has already made



## Implemented functions-pay

#### pay failed



# Demo Part .05