Project2-week4

Hospital Appointment

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Description

Part .01

Description

1. Update:

After prescribed, the stock of the medicine will be reduced accordingly. Using medicine name to check the updating condition.

2. Low Medicine Alert:

When the stock of medicine is less than or equal to 10, the reminder email will be automatically sent to the medicine administrator and 50 units will be automatically added.

Tasks

Part .02

Tasks

1. Update the quantity of medicines

2. Email alerting of low stock medicines

Previous tasks

1-1 register a new patient

1-2 make an appointment

2-1 record prescriptions

2-2 update medical records

2-3 retrieve patient's medical history

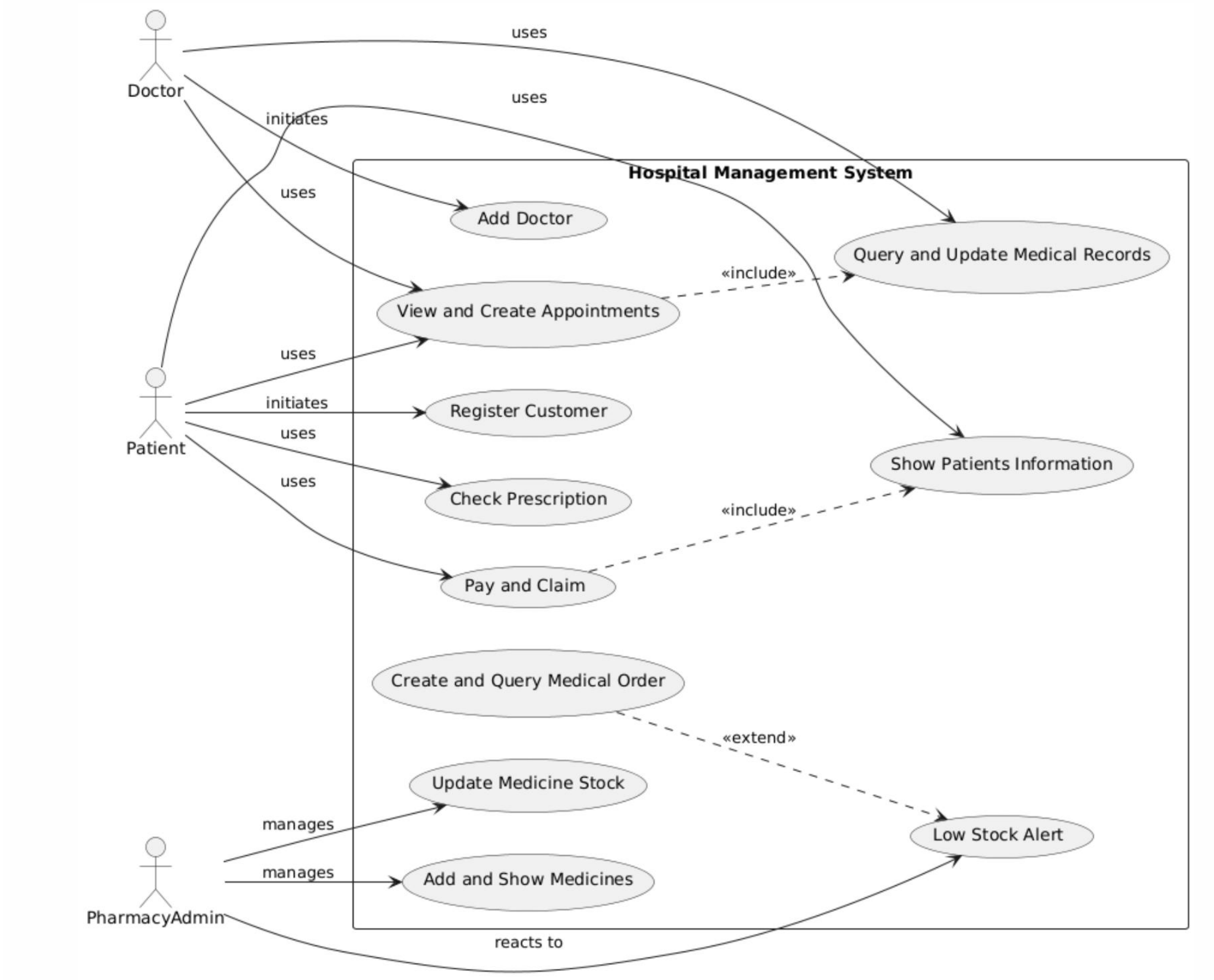
3-1 generate bills

3-2 insurance claims

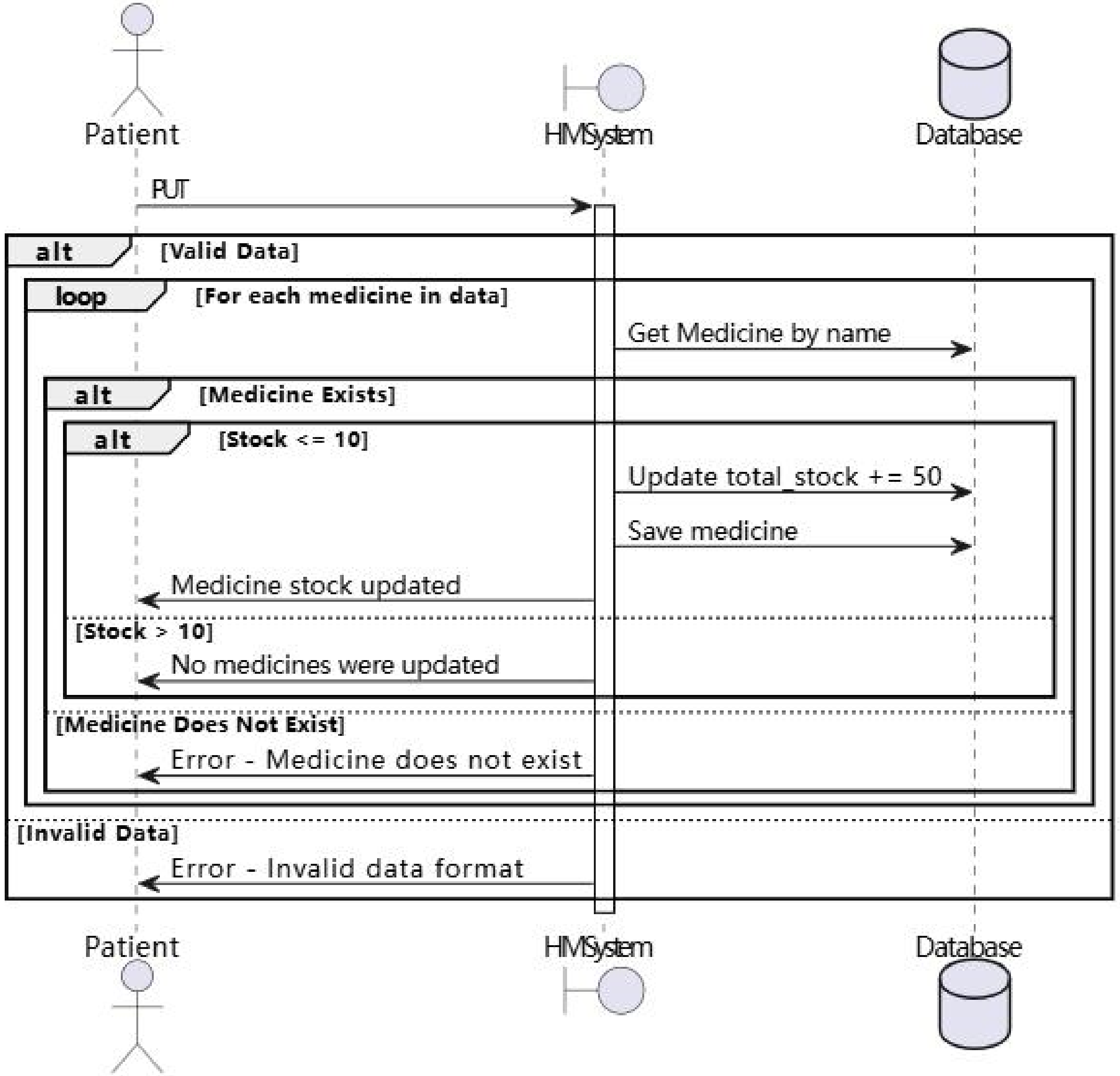
Diagrams

Part .03

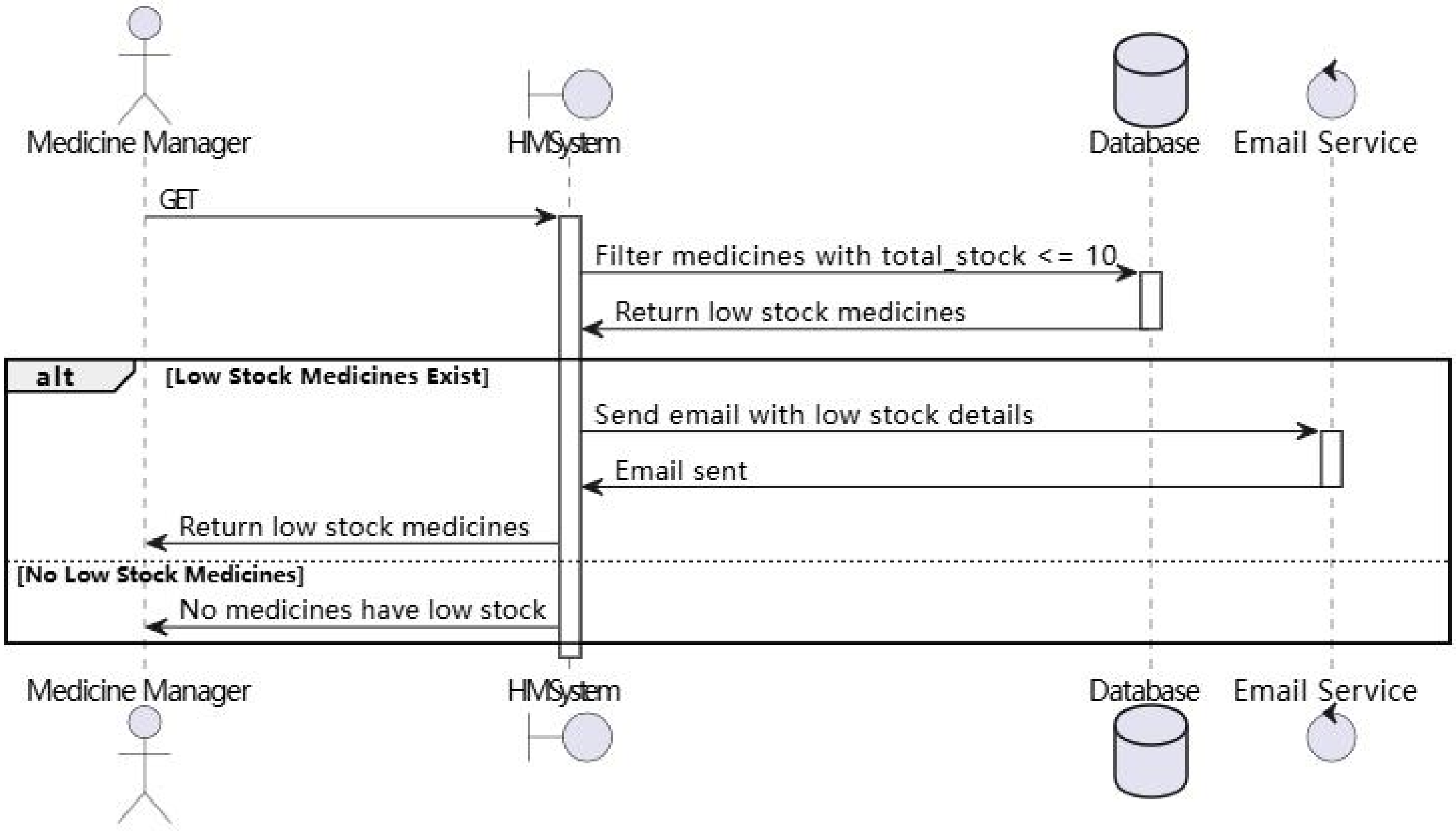
Use case diagram



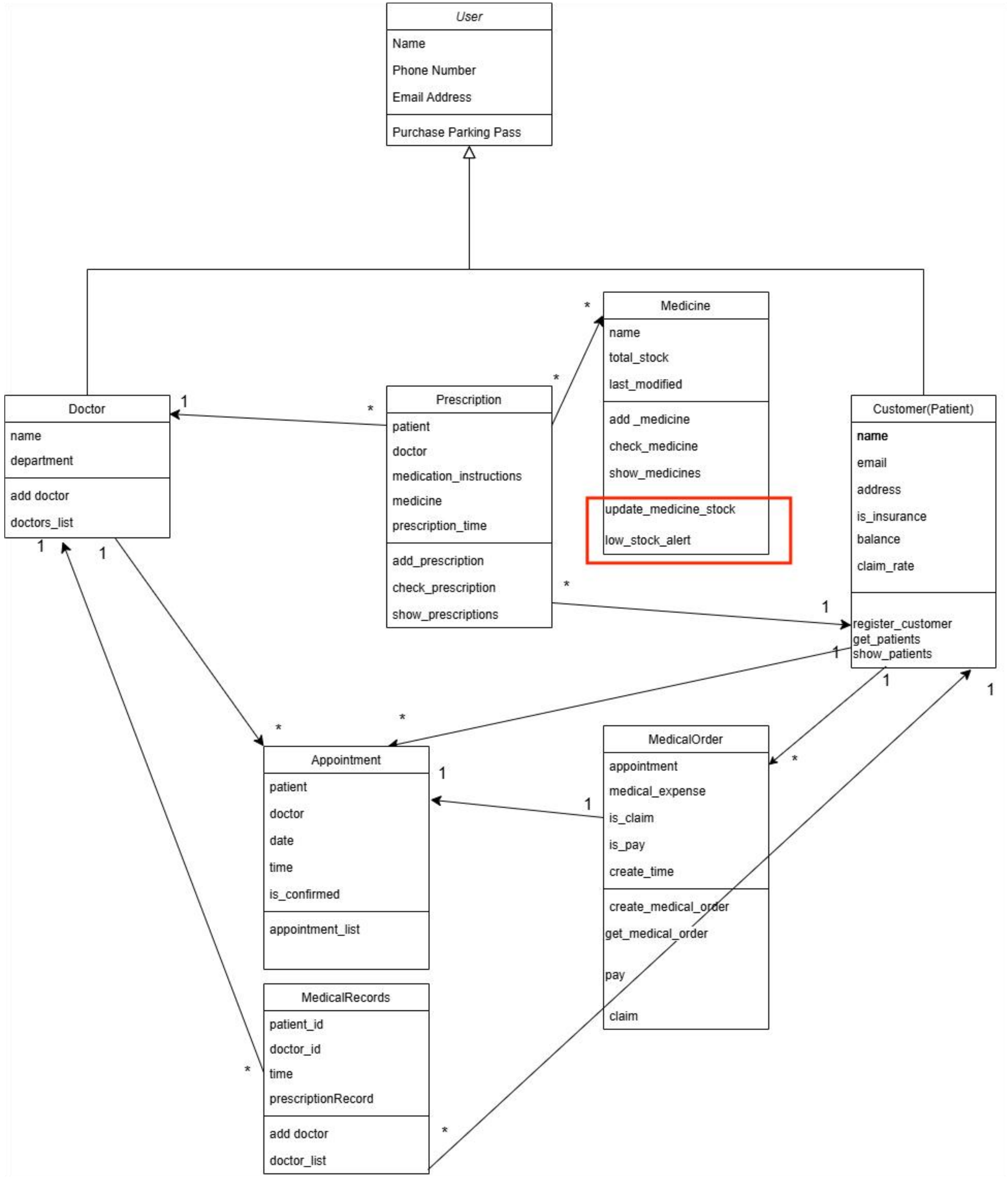
Sequence Diagram-update



Sequence Diagram-alert


Medicine Manager
HMSystem
Database
Email Service
GET
Filter medicines with total_stock <= 10
Return low stock medicines
alt
[Low Stock Medicines Exist]
Send email with low stock details
Email sent
Return low stock medicines
[No Low Stock Medicines]
No medicines have low stock
Medicine Manager
HMSystem
Database
Email Service

Class Diagram



User

Name
Phone Number
Email Address

Purchase Parking Pass

Doctor

name
department

add doctor
doctors_list

Prescription

patient
doctor
medication_instructions
medicine
prescription_time

add_prescription
check_prescription
show_prescriptions

Medicine

name
total_stock
last_modified

add _medicine
check_medicine
show_medicines
update_medicine_stock
low_stock_alert

Customer(Patient)

name
email
address
is_insurance
balance
claim_rate

register_customer
get_patients
show_patients

Appointment

patient
doctor
date
time
is_confirmed

appointment_list

MedicalOrder

appointment
medical_expense
is_claim
is_pay
create_time

create_medical_order
get_medical_order
pay
claim

MedicalRecords

patient_id
doctor_id
time
prescriptionRecord

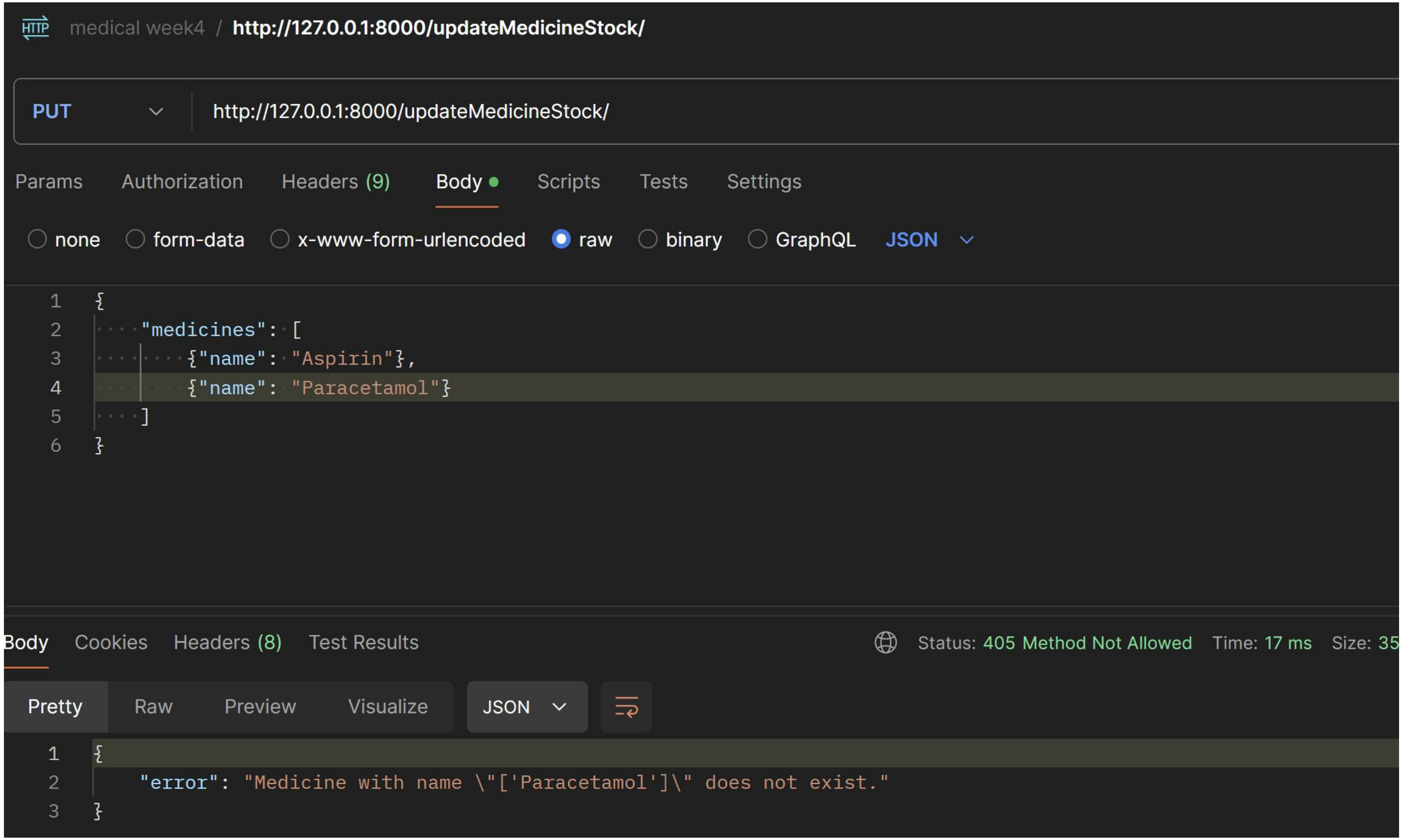
add doctor
doctor_list

Implemented functions

Part .04

Implemented functions-update_medicine_stock

conditon① :try to update the medicine which does not exist



medical week4 / http://127.0.0.1:8000/updateMedicineStock/
PUT
http://127.0.0.1:8000/updateMedicineStock/
Params
Authorization
Headers (9)
Body
Scripts
Tests
Settings
○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON

```
{
    "medicines": [
        {"name": "Aspirin"},
        {"name": "Paracetamol"}
    ]
}
```

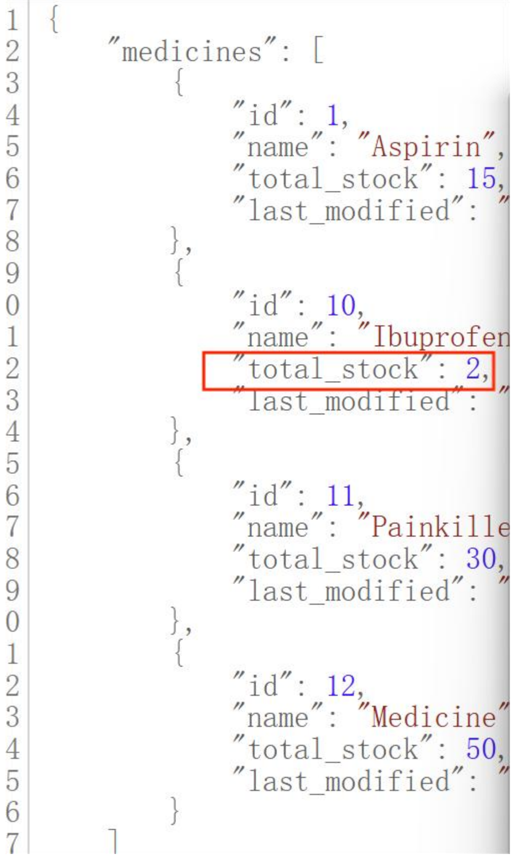
Body
Cookies
Headers (8)
Test Results
Pretty
Raw
Preview
Visualize
JSON

Status: 405 Method Not Allowed Time: 17 ms Size: 35

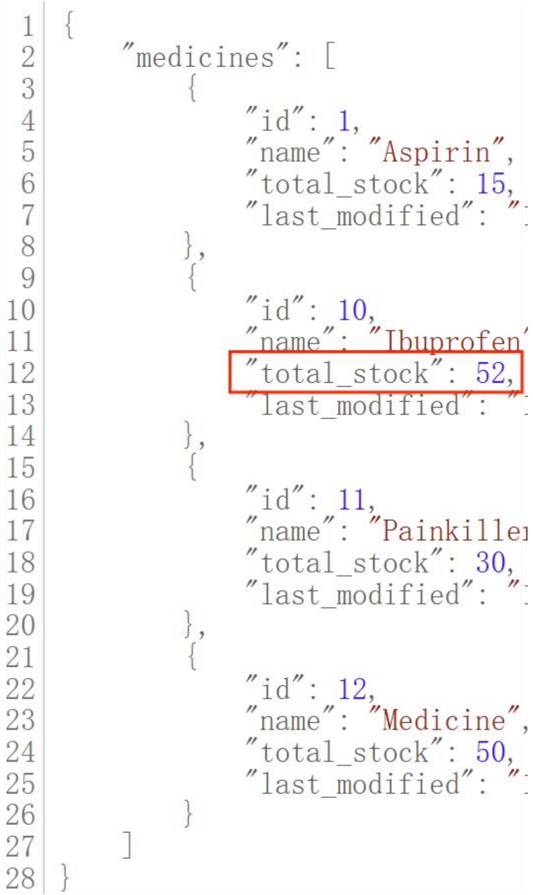
```
{
    "error": "Medicine with name \"['Paracetamol']\" does not exist."
}
```

Implemented functions-update_medicine_stock

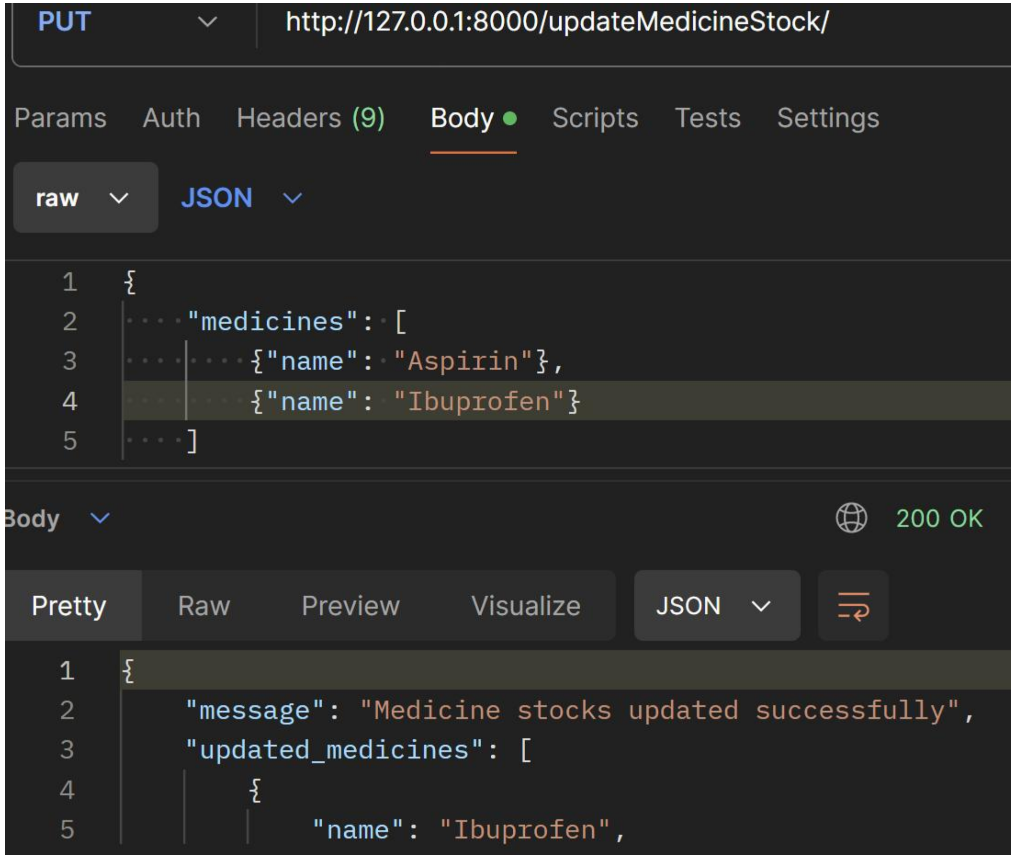
conditon② :try to update the medicine which does not exist（only stock<=10 can be updated)



```
{
    "medicines": [
        {
            "id": 1,
            "name": "Aspirin",
            "total_stock": 15,
            "last_modified": "
        },
        {
            "id": 10,
            "name": "Ibuprofen
            "total_stock": 2,
            "last_modified": "
        },
        {
            "id": 11,
            "name": "Painkille
            "total_stock": 30,
            "last_modified": "
        },
        {
            "id": 12,
            "name": "Medicine"
            "total_stock": 50,
            "last_modified": "
        }
    ]
```



```
{
    "medicines": [
        {
            "id": 1,
            "name": "Aspirin",
            "total_stock": 15,
            "last_modified": ":
        },
        {
            "id": 10,
            "name": "Ibuprofen"
            "total_stock": 52,
            "last_modified": ":
        },
        {
            "id": 11,
            "name": "Painkille
            "total_stock": 30,
            "last_modified": ":
        },
        {
            "id": 12,
            "name": "Medicine",
            "total_stock": 50,
            "last_modified": ":
        }
    ]
}
```



PUT http://127.0.0.1:8000/updateMedicineStock/

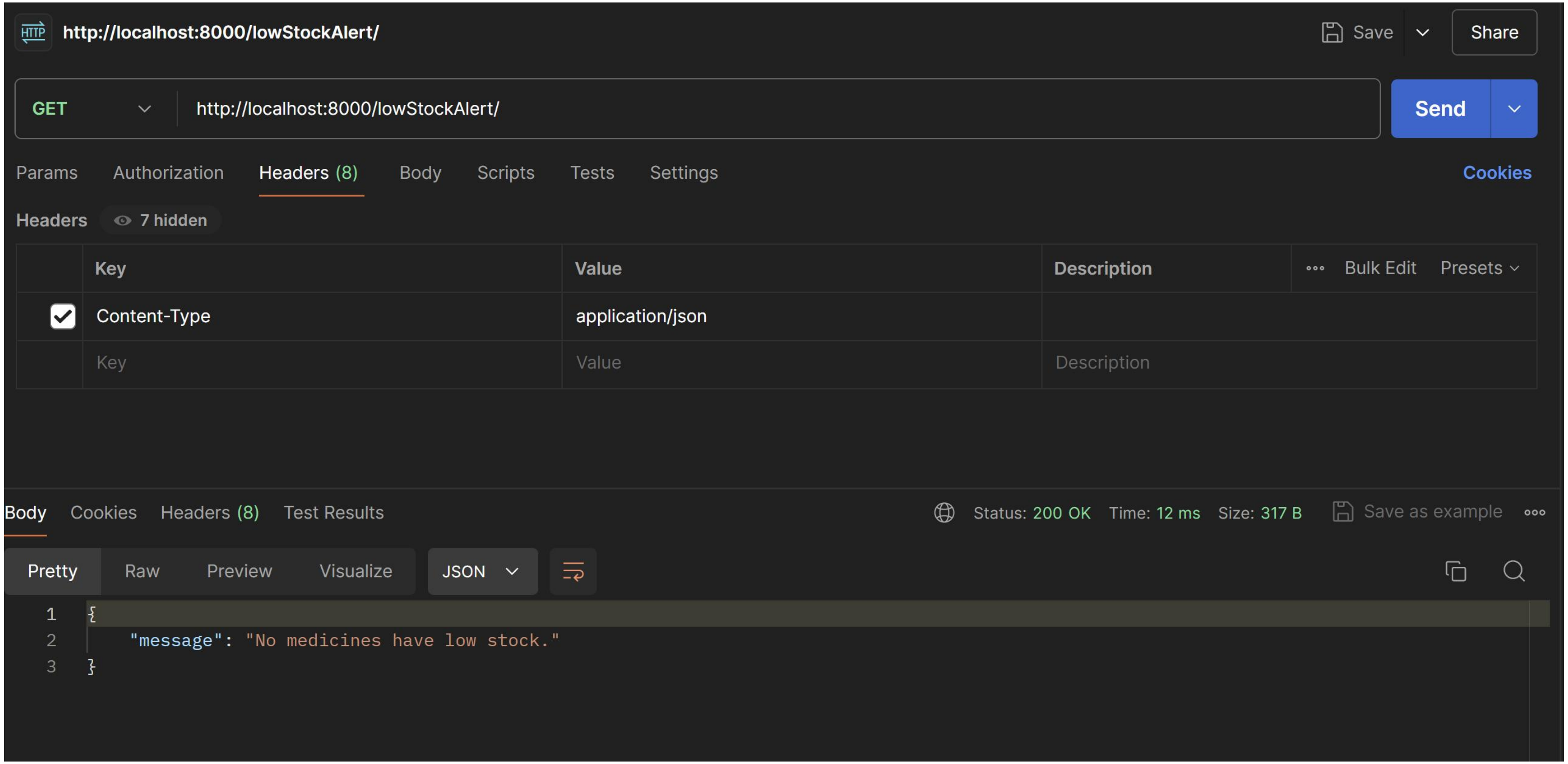
```
{
    "medicines": [
        {"name": "Aspirin"},
        {"name": "Ibuprofen"}
    ]
```

200 OK

```
{
    "message": "Medicine stocks updated successfully",
    "updated_medicines": [
        {
            "name": "Ibuprofen",
```

Implemented functions-low_stock_alert

conditon①: the stock of medicines are all more than 10

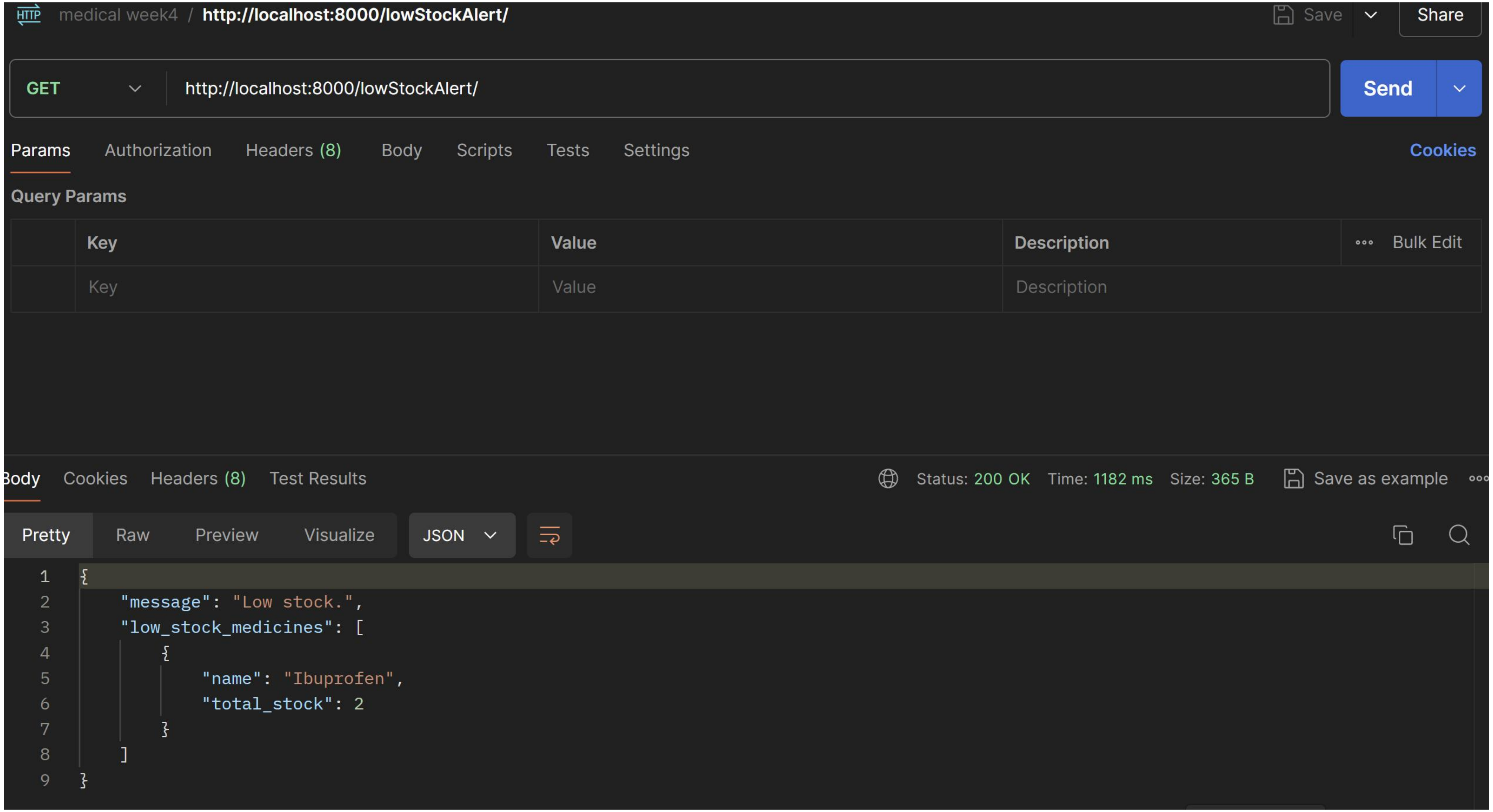


	Key	Value	Description
☑	Content-Type	application/json	
	Key	Value	Description

```
{
    "message": "No medicines have low stock."
}
```

Implemented functions-low_stock_alert

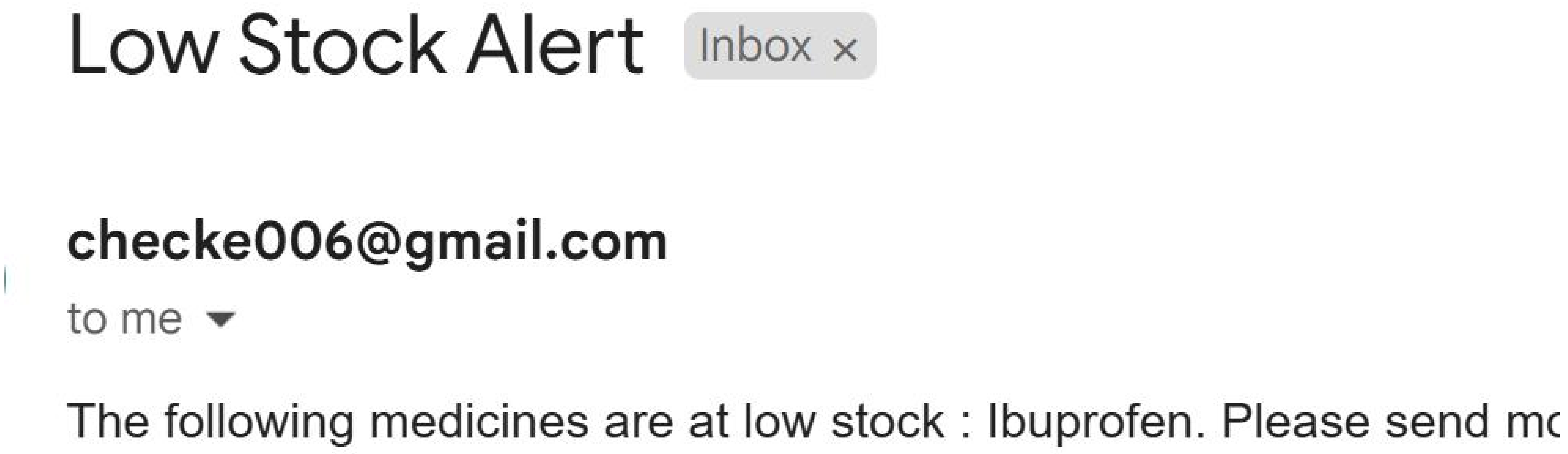
conditon②: one of the medicines has a margin of 10 or less with email alerting



```
{
    "message": "Low stock.",
    "low_stock_medicines": [
        {
            "name": "Ibuprofen",
            "total_stock": 2
        }
    ]
}
```

Implemented functions-low_stock_alert

condition②: email alerting



Low Stock Alert

checke006@gmail.com

to me

The following medicines are at low stock : Ibuprofen. Please send mc