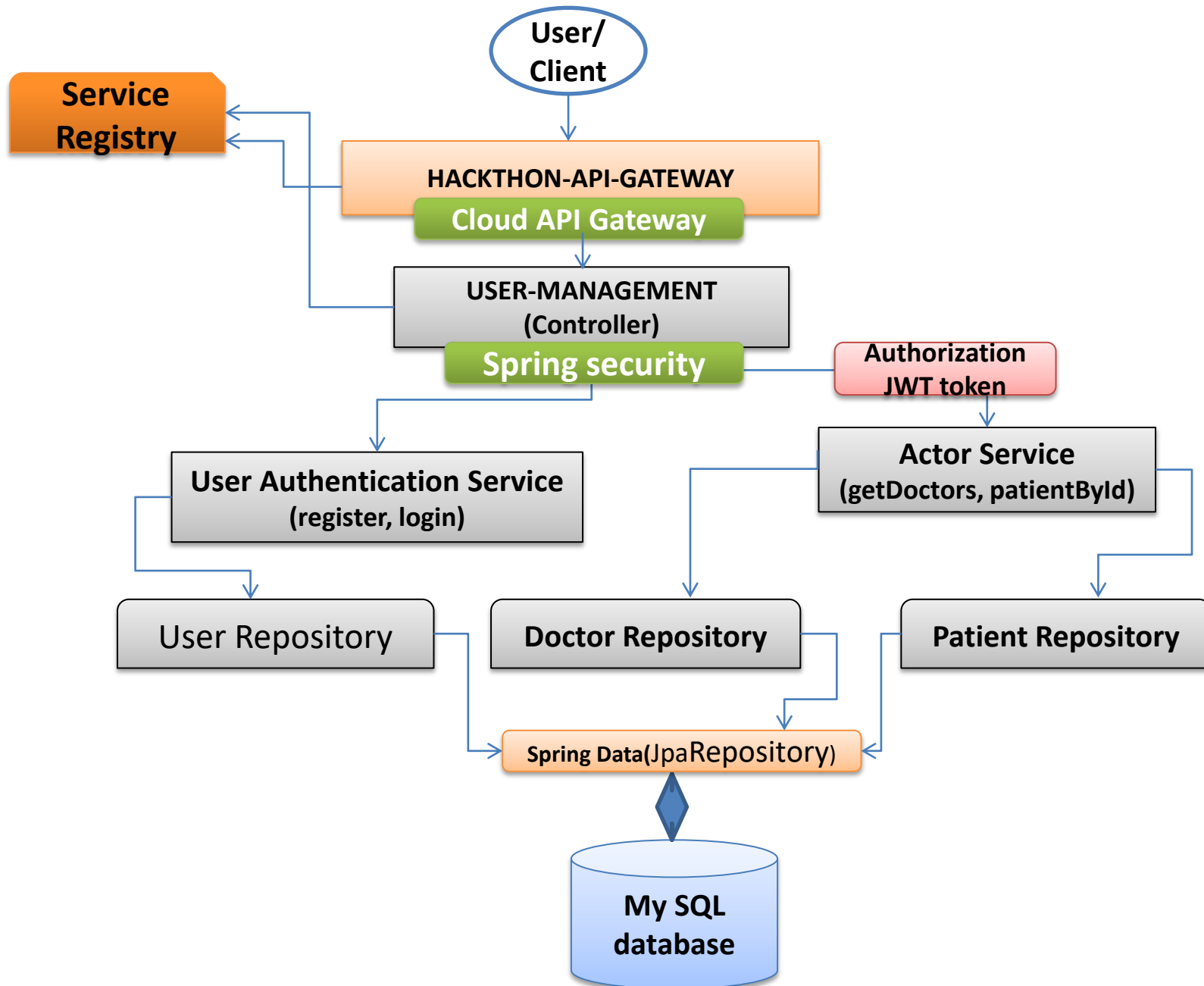# User Management
# &
# Billing Payment Service

# USER MANAGEMENT - HIGH LEVEL ARCHITECTURE

**User Management Service:**

In order to work in cloud environment, the below 2 services are primarily used

- **service-regitsry-hackthon**

  - this is a ureka server which register configured discovery clients

- **api-gateway-kackthon**

  - this acts as cloud API gateway, which directs respective service

- **User-management-hackthon**

  This service provides the below API

  **Management:**

  - User registration       -- > register new user (can be patient or doctor)
  - User Login          -- > return **JWT** token when it success login

  **Actor Service:**

  - List of Doctors        -- > after login (using **JWT** token)
  - Patient  by patient Id -- > returns  (afer login **JWT** token) patient object if existing

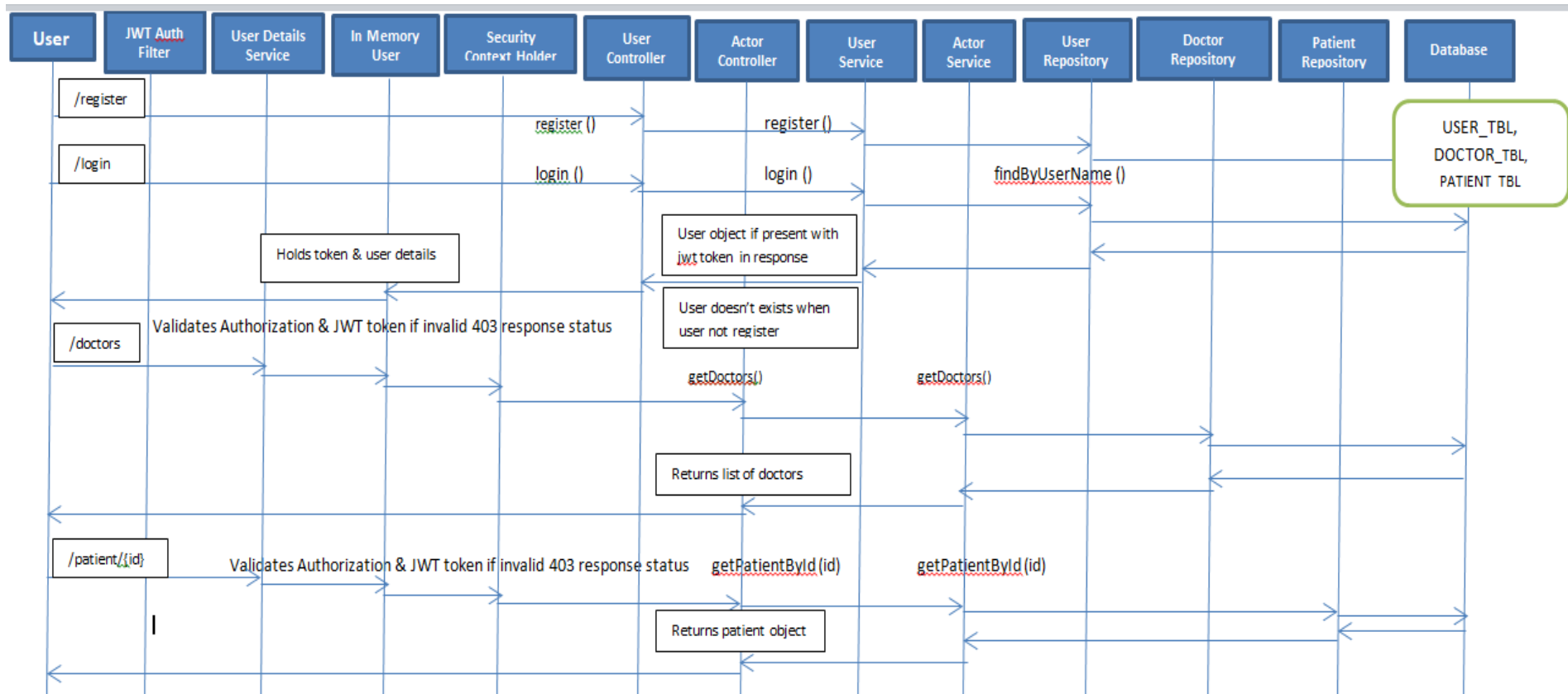- **billing-payment-hackthon**

  This service provides the following API

  **Payment:**

  - Payment  by patient Id         -- > payment can be done for specific patient
  - Track payment by payment Id     -- > returns the payment status and details

  **Billing:**

  - invoices           -- > Generates invoice for all payments
  - invoice by patient IDs -- > Generates invoice for specified patients  (1 or more)
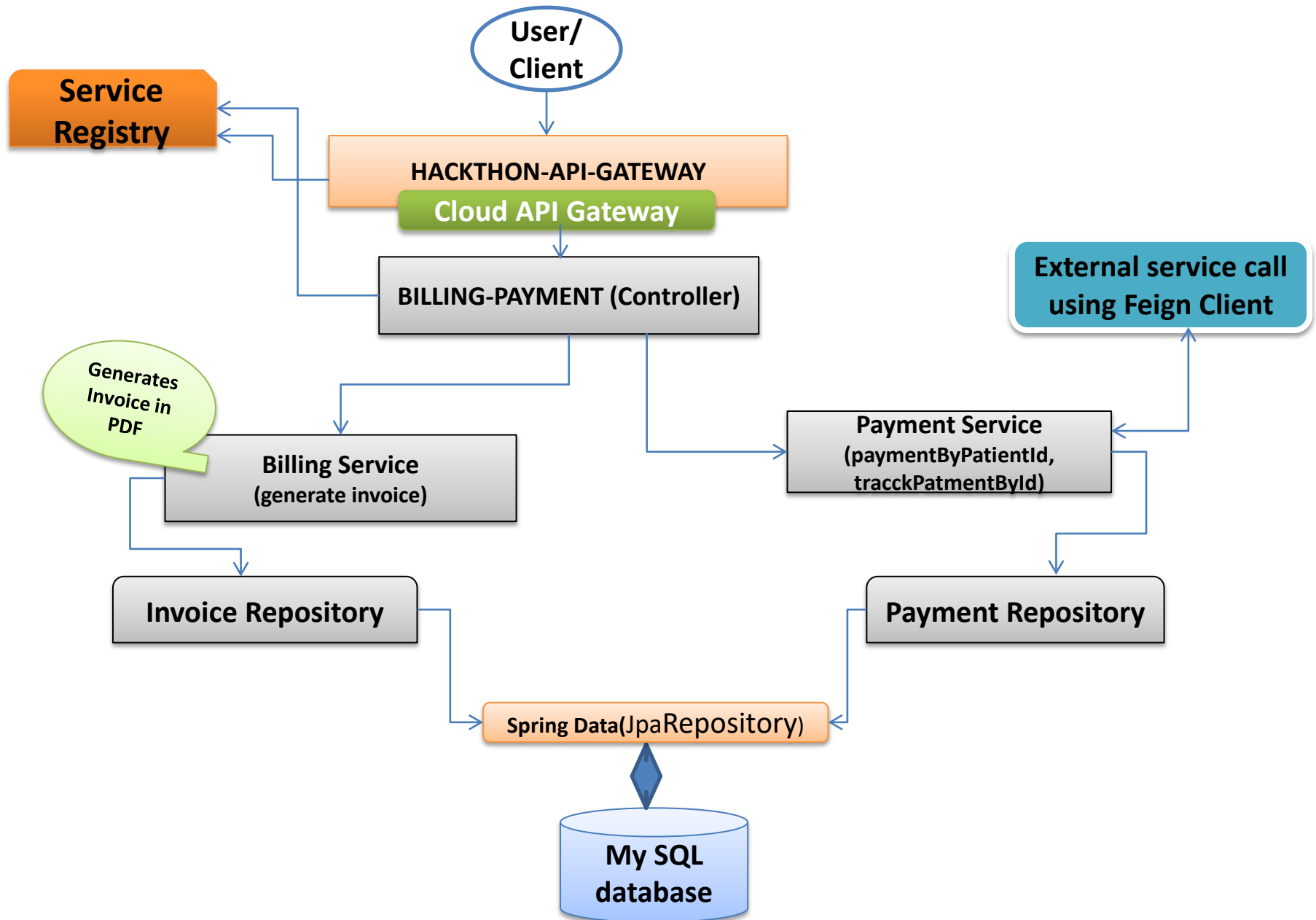
# USER MANAGEMENT SEQUENE FLOW



**USER_TBL**  - - >persist the register user

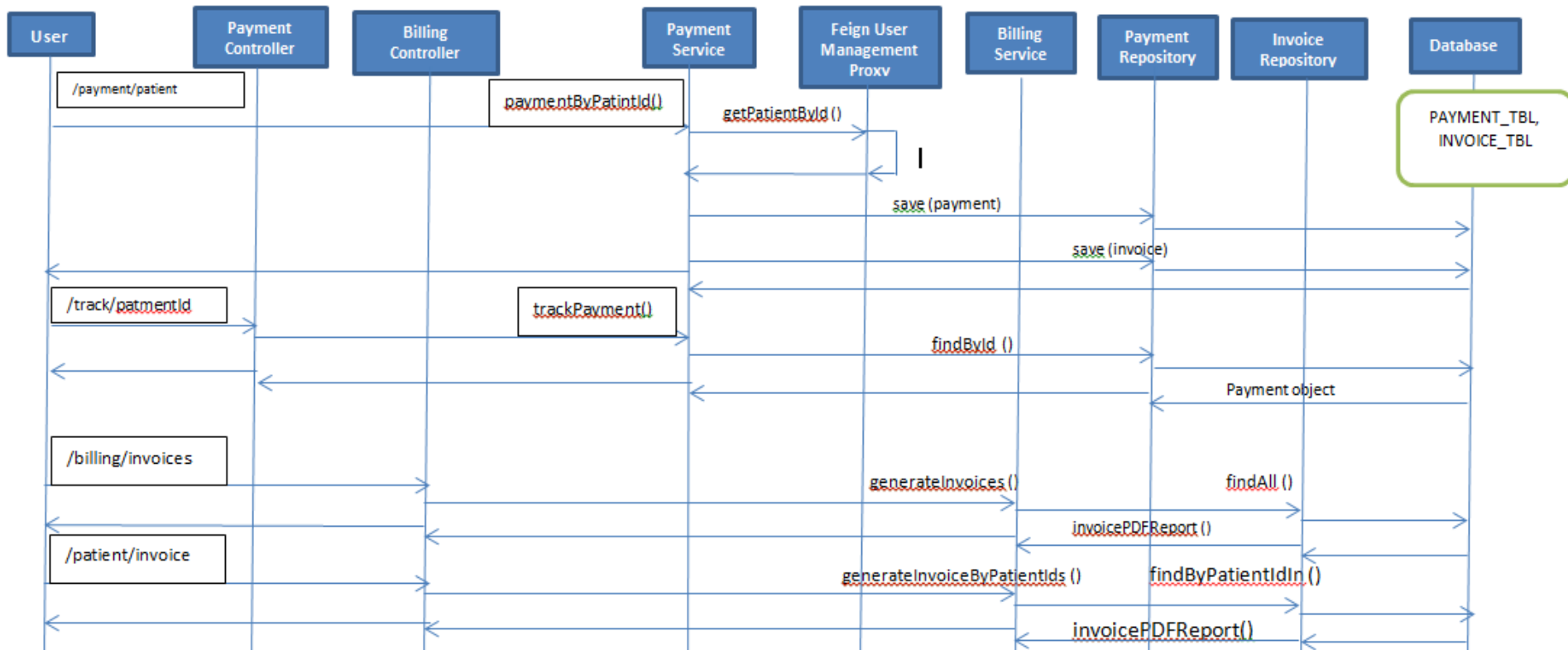**DOCTOT_TBL** -- > persist only who's user is having doctor's role

**PATIENT_TBL** -- > persist who's user is having patient role

Patient & doctor data persisted during registration/sign up / account creation based on role after successfully persisted user data into **USER_TBL**
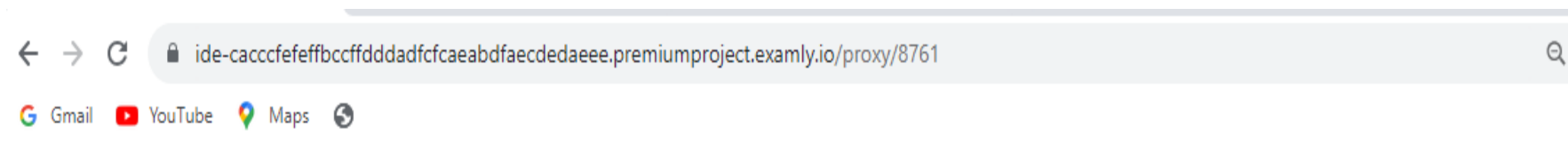
BILLING and PAYMENT - HIGH LEVEL ARCHITECTURE

# BILLING and PAYMENT UML DAIGRAM

# Service Registry status



ide-cacccfefeffbccffdddadfcfcaeabdfaecdedaeee.premiumproject.examly.io/proxy/8761

G Gmail  ▶ YouTube  📍 Maps  🌐

- Home
- Last 1000 since startup

## System Status

| | |
|---|---|
| Environment test | |
| Data center | default |
| Current time | 2023-08-28T04:40:26 +0000 |
| Uptime | 00:06 |
| Lease expiration enabled true | |
| Renews threshold | 6 |
| Renews (last min) | 12 |

## DS Replicas

- localhost

## Instances currently registered with Eureka

| Application | AMIs | Availability Zones | Status |
|---|---|---|---|
| BILLING-PAYMENT | n/a (1) | (1) | UP (1) - cacccfefeffbccffdddadfcfcaeabdfaecdedaeee-0.cacccfefeffbccffdddadfcfcaeabdfaecdedaeee.che.svc.cluster.local:BILLING-PAYMENT:7003 |
| HACKTHON-API-GATEWAY | n/a (1) | (1) | UP (1) - cacccfefeffbccffdddadfcfcaeabdfaecdedaeee-0.cacccfefeffbccffdddadfcfcaeabdfaecdedaeee.che.svc.cluster.local:HACKTHON-API-GATEWAY:7001 |
| USER-MANAGEMENT | n/a (1) | (1) | UP (1) - cacccfefeffbccffdddadfcfcaeabdfaecdedaeee-0.cacccfefeffbccffdddadfcfcaeabdfaecdedaeee.che.svc.cluster.local:USER-MANAGEMENT:7002 |

GENERATE ALL INVOICES

# Medical Billing Invoice

Invoice Id: xxxxx-xxxxx-xx0549          Invoice Date: 28-27-2023 03:27:48

| PATIENT ID | PATIENT NAME | ITEM | DESCRIPTION | AMOUNT |
|---|---|---|---|---|
| 25be3225de3 34c64a41c49 07516fa124 | Vinay | General Check up | General Check up | 1050.75 |
| 25be3225de3 34c64a41c49 07516fa124 | Vinay | Random Sugar Test | Random Sugar Test | 999.99 |
| 8105aa1b40b 94371b8fde95 6d20b851a | ramanj | General Check up | General Check up | 7999.99 |
| 25be3225de3 34c64a41c49 07516fa124 | Vinay | Sugar Test | Sugar Test | 150.75 |
| 8105aa1b40b 94371b8fde95 6d20b851a | ramanj | General Check up | General Check up | 1050.75 |
| 8105aa1b40b 94371b8fde95 6d20b851a | ramanj | General Check up | General Check up | 1050.75 |

Total Amount: 12302.98

# GENERATE INVOICE FOR PATIENT USING PAYEMNTID:

## Medical Billing Invoice

Invoice Id: xxxxx-xxxxx-xx5428          Invoice Date: 28-27-2023 03:27:12

| PATIENT ID | PATIENT NAME | ITEM | DESCRIPTION | AMOUNT |
|---|---|---|---|---|
| 8105aa1b40b94371b8fde956d20b851a | ramanj | General Check up | General Check up | 7999.99 |
| 8105aa1b40b94371b8fde956d20b851a | ramanj | General Check up | General Check up | 1050.75 |
| 8105aa1b40b94371b8fde956d20b851a | ramanj | General Check up | General Check up | 1050.75 |

Total Amount: 10101.49

# THANK YOU