Tweet App-Backend

TweetApp

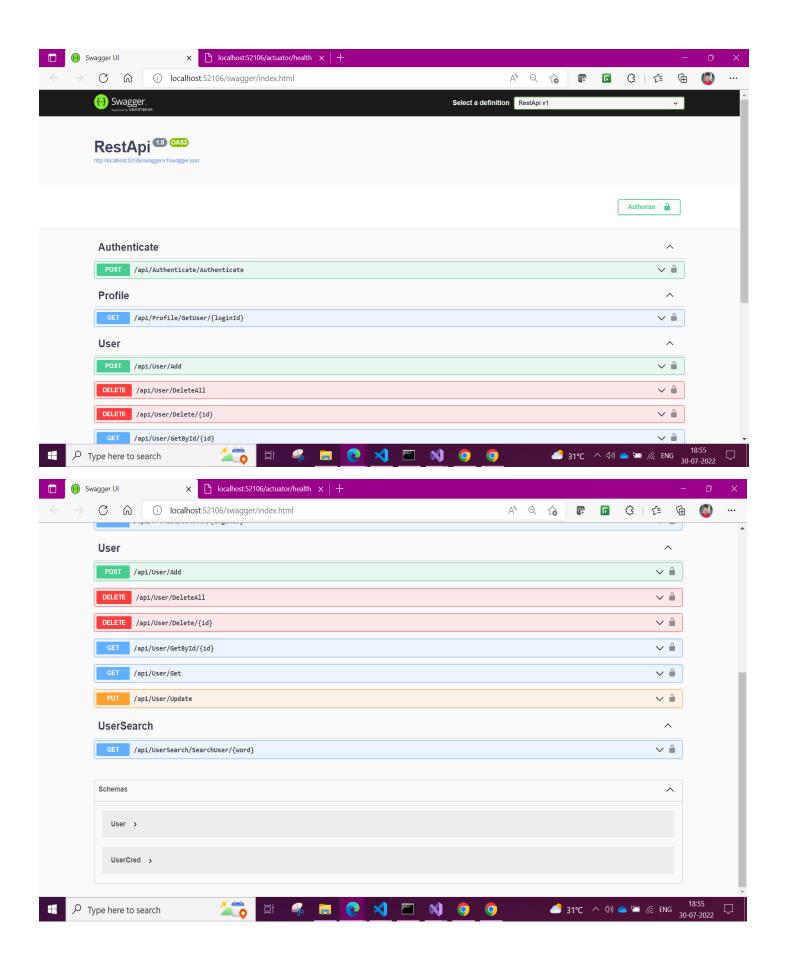
Created By -

Rahul Ranjan

Employee Id: 2048766

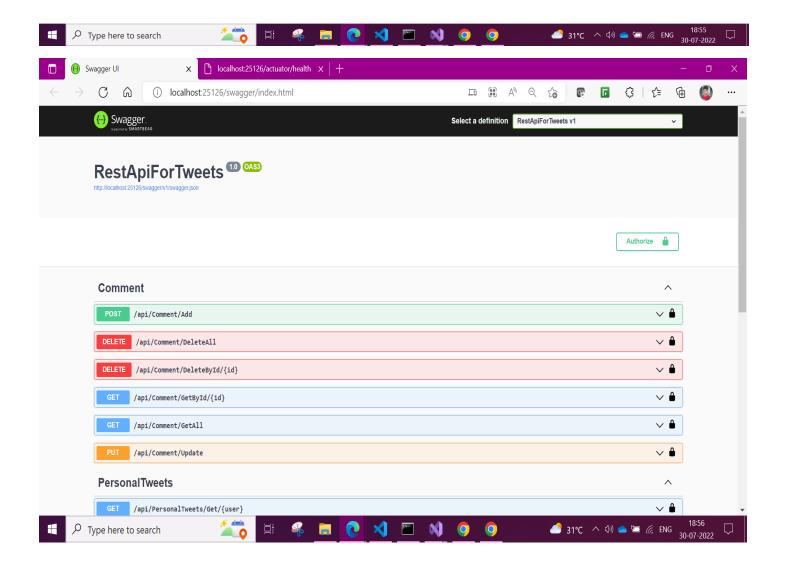
Technology used:

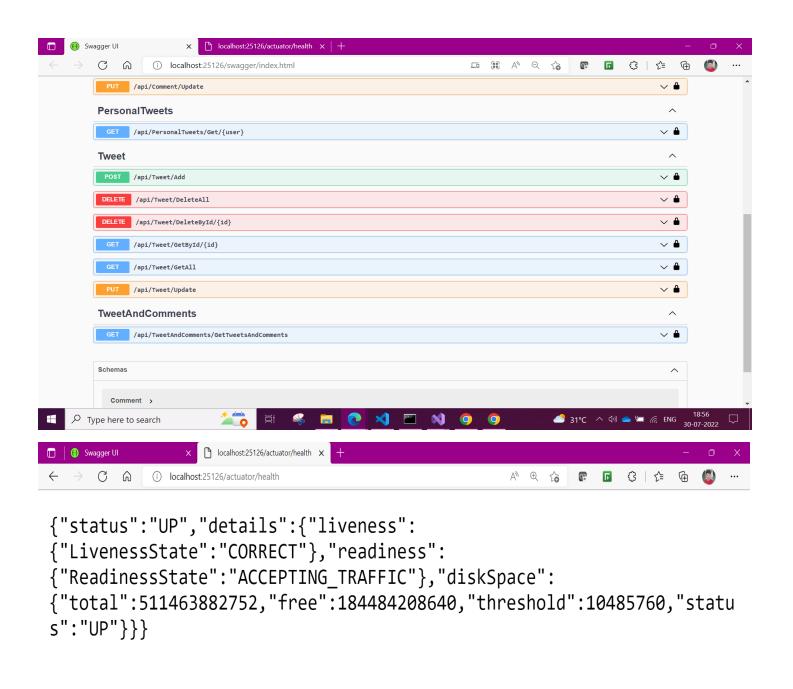
- ➤ ASP.NET Core 6.0
- ➤ MongoDB (Azure Cosmos DB)
- > Angular CLI (14.0.4)
- > Karma & Jasmine
- Node (16.10.0)
- Docker
- ➤ ElasticSearch Image Of Docker
- ➤ LogStash Image Of Docker
- ➤ Kibana Image Of Docker
- > Jaeger Image Of Docker
- ➤ Zipkin Image Of Docker
- > XUnit (For Unit Testing)
- ➤ Moq (For Unit Testing)
- > FluentAssertions (For Unit Testing)
- > Prometheus
- ➤ Grafana



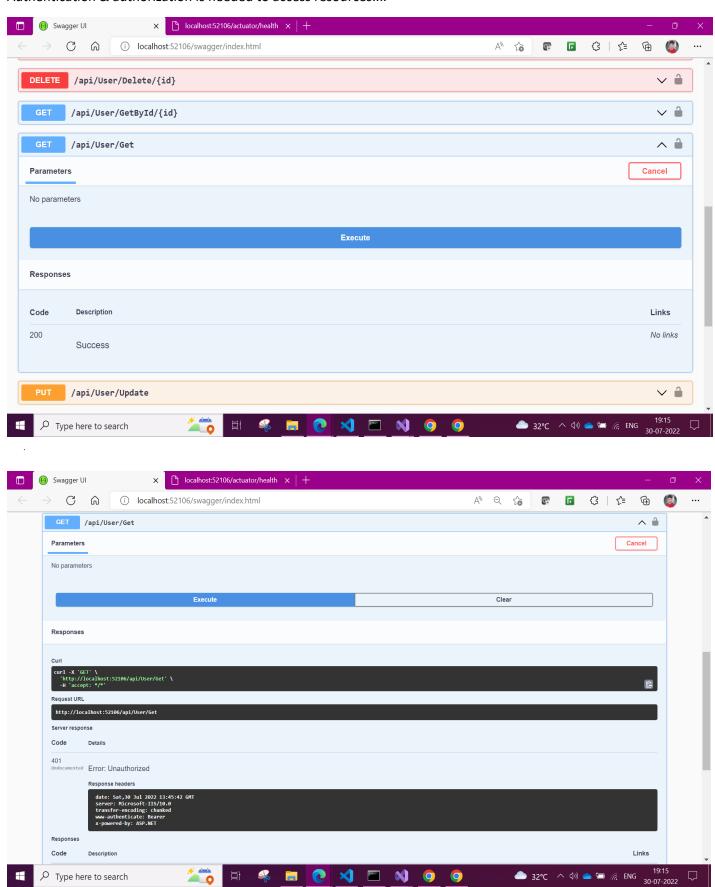
This is Steeltoe Health Actuator Implementation....

```
| Swagger U| | X | localhost:52106/actuator/health | X | LivenessState": "CORRECT" | Swagger U| | X | LivenessState": "VP" | N | localhost:52106/actuator/health | X | LivenessState": "CORRECT" | N | LivenessState": "CORREC
```

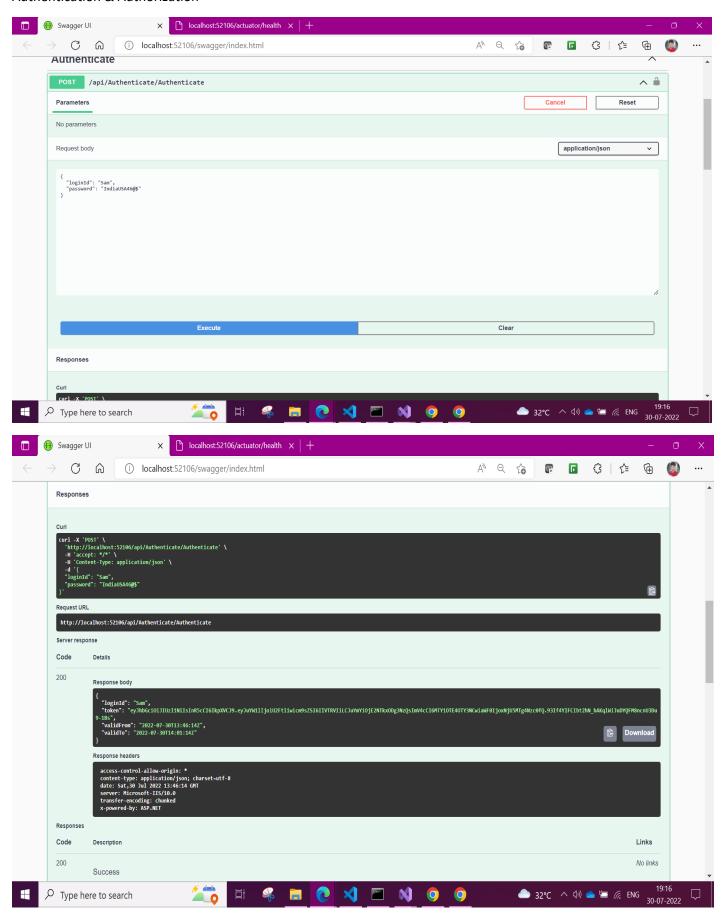


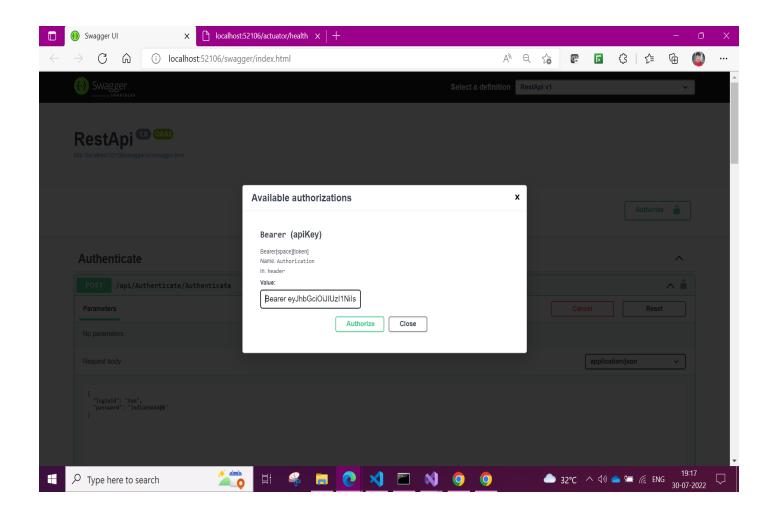


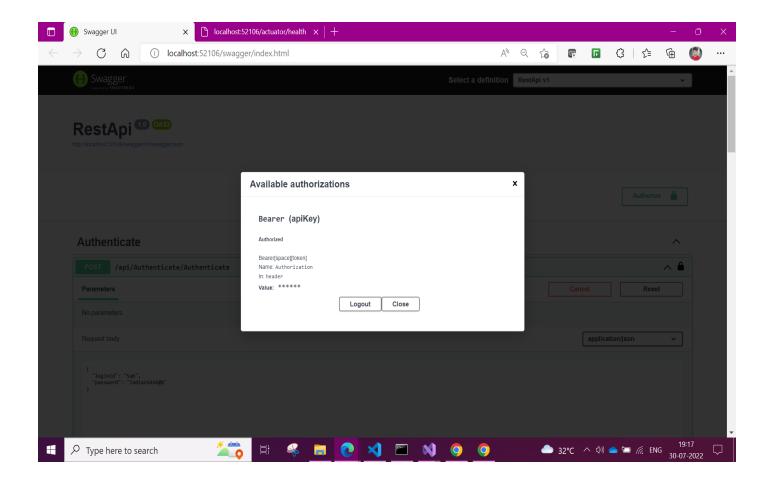
Authentication & authorization is needed to access resources....



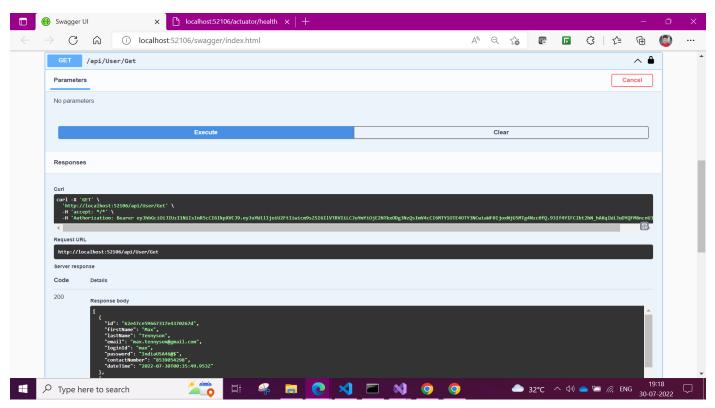
Authentication & Authorization

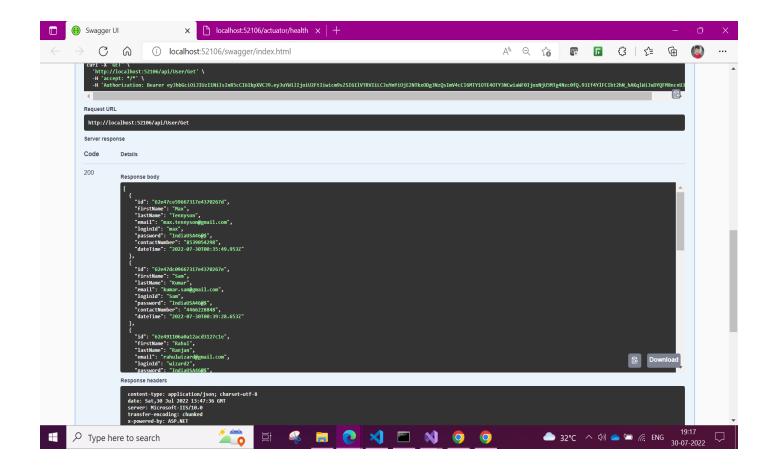




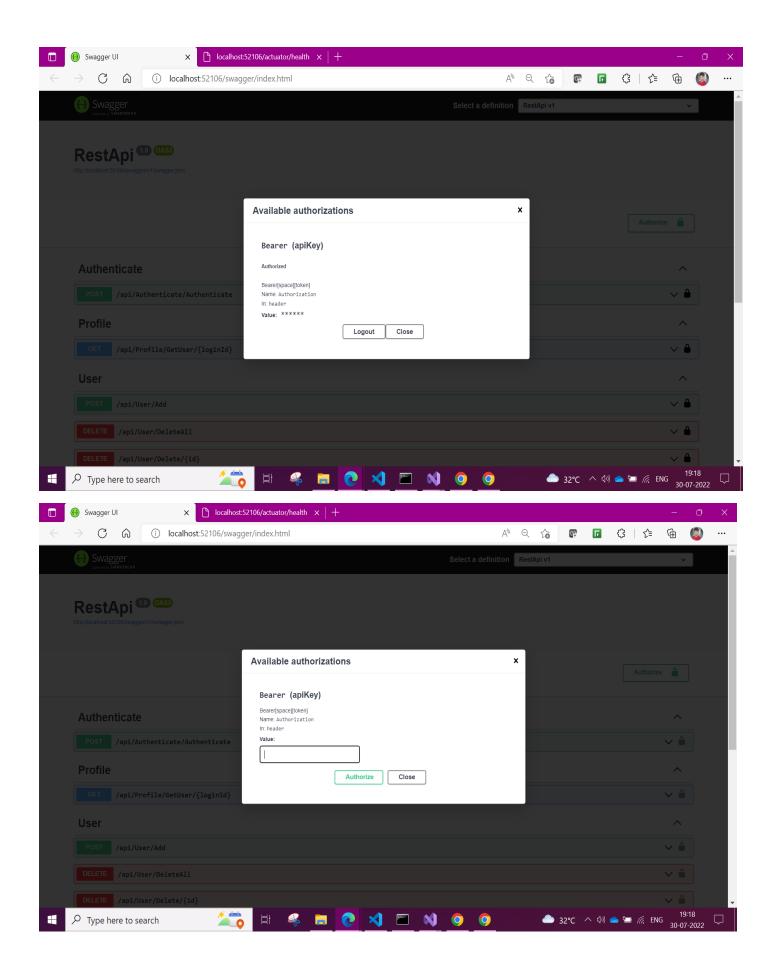


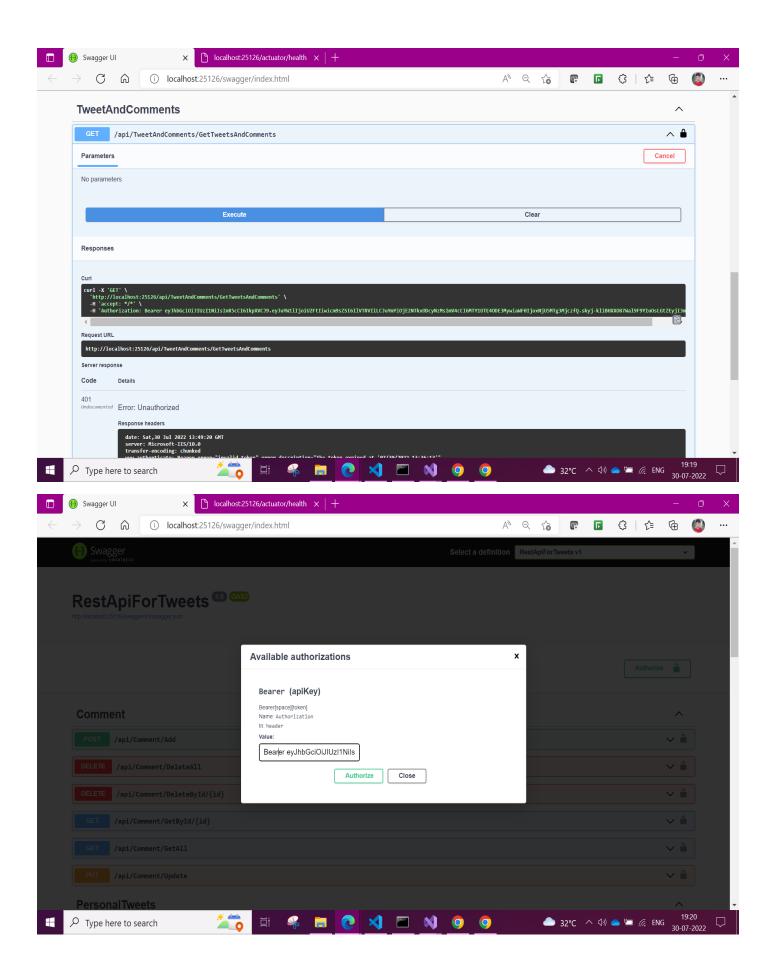
The Api is accessible only after successful authentication and authorization....

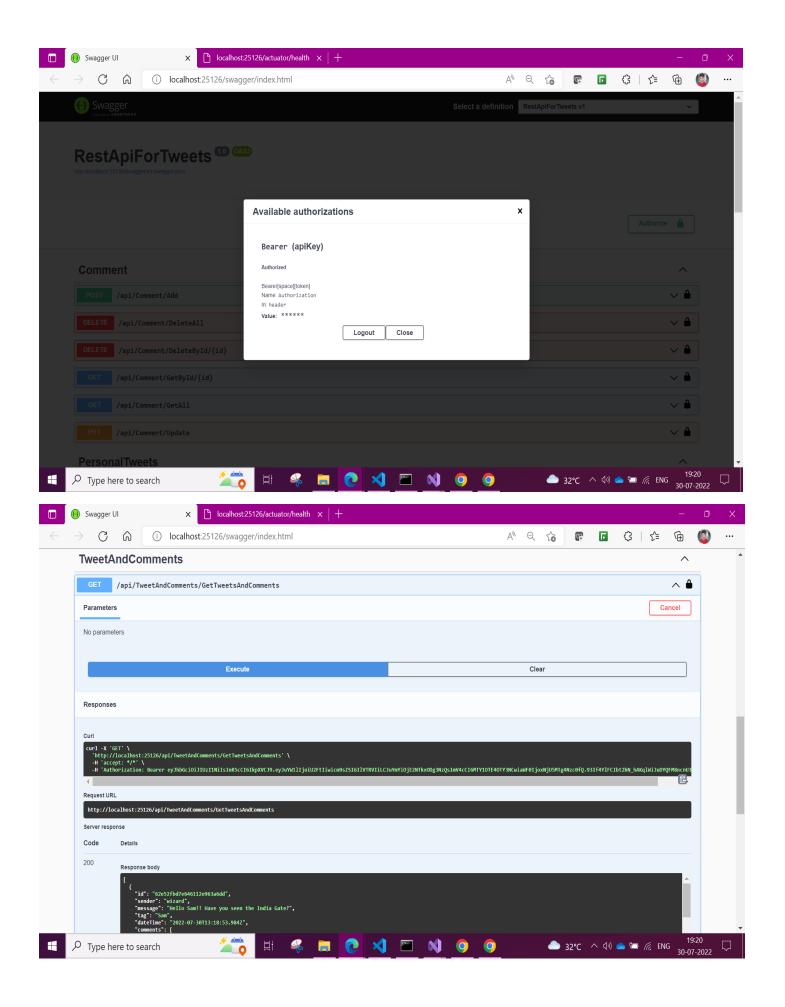


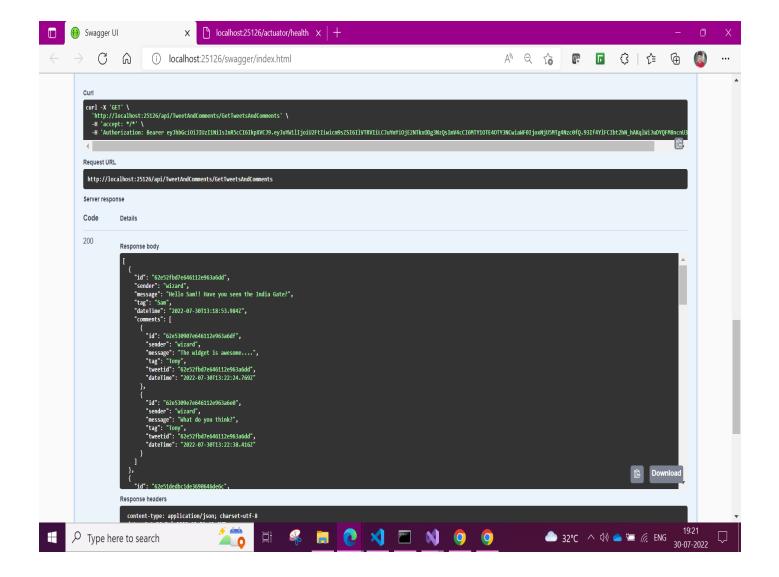


Logging out....









- These webapis provide interface to the Azure Cosmos DB used as the database.
- > JWT Bearer Authentication & Authorization is used here.
- The endpoints cannot be accessed without being authorized.
- Two apis are used.
- ➤ The angular frontend interacts with these two apis to for registration, authorization (valid for 15 minutes after 15 minutes, the data becomes unavailable and the user is redirected to the index page).
- > Steeltoe health actuators are used for both these apis.
- OpenTelemetry with Jaeger & Zipkin is used.
- > Traces and Logs are collected by ElasticSearch, Logstash, Serilog and Kibana
- Metrics are collected by Prometheus and Grafana.
- Service layer provides interface to the MongoDB database.