Github Link

https://github.com/sudtanj/Auth-Micro-Services

Architecture Workflow

- 1. User login: The user must login to the system using their credentials (username and password) to gain access to the system.
- 2. Authentication: The system then verifies the user's credentials and grants access if the credentials are valid.
- 3. User role: Depending on the user role, the system will allow different levels of access to the API.
- 4. Create: If the user has the privilege to create a new user, they can do so by providing the required data (username, password, etc.).
- 5. Read: If the user has the privilege to read user information, they can do so by providing the user ID.
- 6. Update: If the user has the privilege to update user information, they can do so by providing the required data (username, password, etc.).
- 7. Delete: If the user has the privilege to delete user information, they can do so by providing the user ID.

Admin Credential

```
{
    "username": "test",
    "password": "testtesttest",
}
```

.Env data

PORT=3000

DATABASE_URL=postgres://vdigaftt:xWvJcKGFA20wjvmXnRt0QH9QboSKmBTq@rosie.db. elephantsql.com/vdigaftt

APP_SECRET=0dd8d1d7c673300e0e800e10e13eb6ee1414c140e046ebf7e2229010ab7ab7 9a10f06fddeebabfb428b6a380aa12654c

Applying Secret to Kubernetes namespace

secret.yaml

apiVersion: v1 kind: Secret metadata: name: mysecret

namespace: auth-micro-services

type: Opaque

data:

APP SECRET:

MGRkOGQxZDdjNjczMzAwZTBIODAwZTEwZTEzZWI2ZWUxNDE0YzE0MGUwNDZIYmY3Z TlyMjkwMTBhYjdhYjc5YTEwZjA2ZmRkZWViYWJmYjQyOGI2YTM4MGFhMTl2NTRj

PORT: MzAwMA== DATABASE_URL:

cG9zdGdyZXM6Ly92ZGlnYWZ0dDp4V3ZKY0tHRkEyMHdqdm1YblJ0MFFIOVFib1NLbUJUcUByb3NpZS5kYi5lbGVwaGFudHNxbC5jb20vdmRpZ2FmdHQ=

Apply the secret to kubernetes cluster using command

Kubectl apply -f secret.yaml

Documentation

Documentation can be access at http://localhost:3000/api (local deployment) or http://localhost/api (kubernetes deployment). You can also import manually the swagger json by using the following file.

Swagger.json

```
{
    "openapi": "3.0.0",
    "paths": {
        "/": {
        "get": {
```

```
"operationId": "AppController_getHello",
  "parameters": [],
  "responses": {
   "200": {
     "description": ""
"/health": {
 "get": {
  "operationId": "HealthController_check",
  "summary": "For docker purposes! to get the health status of the container",
  "parameters": [],
  "responses": {
   "200": {
     "description": "The Health Check is successful",
     "content": {
      "application/json": {
       "schema": {
         "type": "object",
         "properties": {
          "status": {
           "type": "string",
            "example": "ok"
           "info": {
            "type": "object",
            "example": {
             "database": {
              "status": "up"
             }
            "additionalProperties": {
             "type": "object",
             "properties": {
              "status": {
                "type": "string"
             "additionalProperties": {
              "type": "string"
            "nullable": true
           "error": {
            "type": "object",
            "example": {},
            "additionalProperties": {
```

```
"type": "object",
         "properties": {
           "status": {
            "type": "string"
           }
         "additionalProperties": {
           "type": "string"
        "nullable": true
      },
"details": {
        "type": "object",
        "example": {
         "database": {
           "status": "up"
         }
        "additionalProperties": {
         "type": "object",
         "properties": {
           "status": {
    "type": "string"
           }
         "additionalProperties": {
          "type": "string"
"503": {
 "description": "The Health Check is not successful",
 "content": {
  "application/json": {
    "schema": {
     "type": "object",
     "properties": {
       "status": {
        "type": "string",
        "example": "error"
       "info": {
        "type": "object",
        "example": {
```

```
"database": {
    "status": "up"
  "additionalProperties": {
   "type": "object",
   "properties": {
    "status": {
     "type": "string"
    }
   "additionalProperties": {
    "type": "string"
  "nullable": true
error": {
  "type": "object",
  "example": {
   "redis": {
    "status": "down",
    "message": "Could not connect"
  "additionalProperties": {
   "type": "object",
   "properties": {
    "status": {
     "type": "string"
    }
   "additionalProperties": {
    "type": "string"
  "nullable": true
},
"details": {
 "type": "object",
  "example": {
   "database": {
    "status": "up"
   "redis": {
    "status": "down",
    "message": "Could not connect"
  "additionalProperties": {
```

```
"type": "object",
              "properties": {
               "status": {
                 "type": "string"
               }
              "additionalProperties": {
               "type": "string"
},
"/user": {
~+"· {
  "get": {
   "operationId": "UserController_list",
   "summary": "list all user available. admin and user can access!",
   "parameters": [],
   "responses": {
    "200": {
      "description": "Success.",
      "content": {
       "application/json": {
        "schema": {
          "type": "array",
          "items": {
           "$ref": "#/components/schemas/User"
   "tags": [
    "User"
   "security": [
      "bearer": []
  "post": {
   "operationId": "UserController_register",
```

```
"summary": "create new user. admin can access!",
  "parameters": [],
  "requestBody": {
   "required": true,
    "content": {
     "application/json": {
      "schema": {
       "$ref": "#/components/schemas/SignUp"
  "responses": {
   "201": {
     "description": "Success.",
     "content": {
      "application/json": {
       "schema": {
         "$ref": "#/components/schemas/User"
  "tags": [
   "User"
   "security": [
     "bearer": []
"/user/{id}": {
 "get": {
  "operationId": "UserController_detail",
  "summary": "get detail of user. admin and user can access!",
   "parameters": [
     "name": "id",
     "required": true,
     "in": "path",
     "schema": {
      "type": "string"
  "responses": {
   "200": {
```

```
"description": "Success.",
   "content": {
     "application/json": {
      "schema": {
       "$ref": "#/components/schemas/User"
 ,
"tags": [
  "User"
 "security": [
   "bearer": []
"patch": {
"operationId": "UserController_update",
 "summary": "update existing user. admin can access!",
 "parameters": [
   "name": "id",
   "required": true,
   "in": "path",
   "schema": {
    "type": "string"
"requestBody": {
  "required": true,
  "content": {
   "application/json": {
    "schema": {
      "$ref": "#/components/schemas/User"
 "responses": {
  "200": {
   "description": "Success.",
   "content": {
    "application/json": {
      "schema": {
       "$ref": "#/components/schemas/User"
```

```
"tags": [
    "User"
   "security": [
     "bearer": []
  "delete": {
   "operationId": "UserController_delete",
   "summary": "delete existing user. admin can access!",
   "parameters": [
     "name": "id",
     "required": true,
     "in": "path",
     "schema": {
       "type": "string"
    }
   "responses": {
    "200": {
     "description": "Success.",
     "content": {
       "application/json": {
        "schema": {
         "$ref": "#/components/schemas/User"
   "tags": [
    "User"
  ],
"security": [
     "bearer": []
},
"/auth/register": {
 "post": {
```

```
"operationId": "AuthController_register",
  "summary": "register new user. cannot register admin!",
  "parameters": [],
   "requestBody": {
    "required": true,
    "content": {
     "application/json": {
      "schema": {
        "$ref": "#/components/schemas/SignUp"
   "responses": {
    "200": {
     "description": "Success.",
     "content": {
      "application/json": {
       "schema": {
         "$ref": "#/components/schemas/User"
   "tags": [
    "Auth"
},
"/auth/login": {
 "post": {
  "operationId": "AuthController_login",
  "summary": "login and get user token!",
  "parameters": [],
   "requestBody": {
    "required": true,
    "content": {
     "application/json": {
      "schema": {
        "$ref": "#/components/schemas/SignInDto"
   "responses": {
    "200": {
     "description": "Success.",
     "headers": {
      "Authorization": {
```

```
"description": "token user will be store here at the header authorization response",
         "example": "Bearer
eyJhbGciOiJIUzM4NClsInR5cCl6lkpXVCJ9.eyJzdWliOiJ0ZXN0X3VzZXliLCJpYXQiOjE2NzA
3MzI1NTEsImV4cCI6MTY3MDgxODk1MX0.iw72t9fNF1 sAo 8Vpp7beGJZA46B7JD23Ey59
8jVni4jhtljF0WD_akGjhVfgG5"
       "content": {
        "application/json": {
         "schema": {
           "$ref": "#/components/schemas/User"
     "tags": [
      "Auth"
  "/auth/me": {
    "get": {
     "operationId": "AuthController_me",
    "summary": "get current token profile!",
     "parameters": [],
     responses": {
      "200": {
       "description": "Success.",
       "content": {
        "application/json": {
         "schema": {
           "$ref": "#/components/schemas/User"
     "tags": [
      "Auth"
 "info": {
  "title": "Auth Micro Services Documentation",
  "description": "The API is use for micro services architecture deployment for
authentication",
  "version": "1.0",
  "contact": {}
```

```
},
"tags": [
   "name": "auth",
   "description": ""
 }
"servers": [],
"components": {
 "schemas": {
   "User": {
    "type": "object",
    "properties": {
     "id": {
       "type": "number",
       "example": 1,
       "description": "Postgres id"
      "name": {
       "type": "string",
       "example": "John",
       "description": "name of the user"
      "username": {
       "type": "string",
       "example": "john",
       "description": "username for login"
      roles": {
       "type": "string",
       "example": "admin",
       "description": "User role"
    "required": [
     "id",
     "name",
      "username",
      "roles"
   "SignUp": {
    "type": "object",
    "properties": {
     "name": {
       "type": "string",
       "example": "John",
       "description": "name of the user"
      "username": {
```

```
"type": "string",
    "example": "john",
    "description": "username for login"
   "password": {
    "type": "string",
   "example": "password",
    "description": "user password for login"
  "roles": {
   "type": "string",
   "example": "admin",
    "description": "User role"
},
"required": [
  "username",
  "password",
  "roles"
"SignInDto": {
 "type": "object",
 "properties": {
  "username": {
    "type": "string",
    "example": "john",
"description": "username for login"
   "password": {
    "type": "string",
   "example": "password",
    "description": "user password for login"
 "required": [
  "username",
  "password"
```

Screenshot



