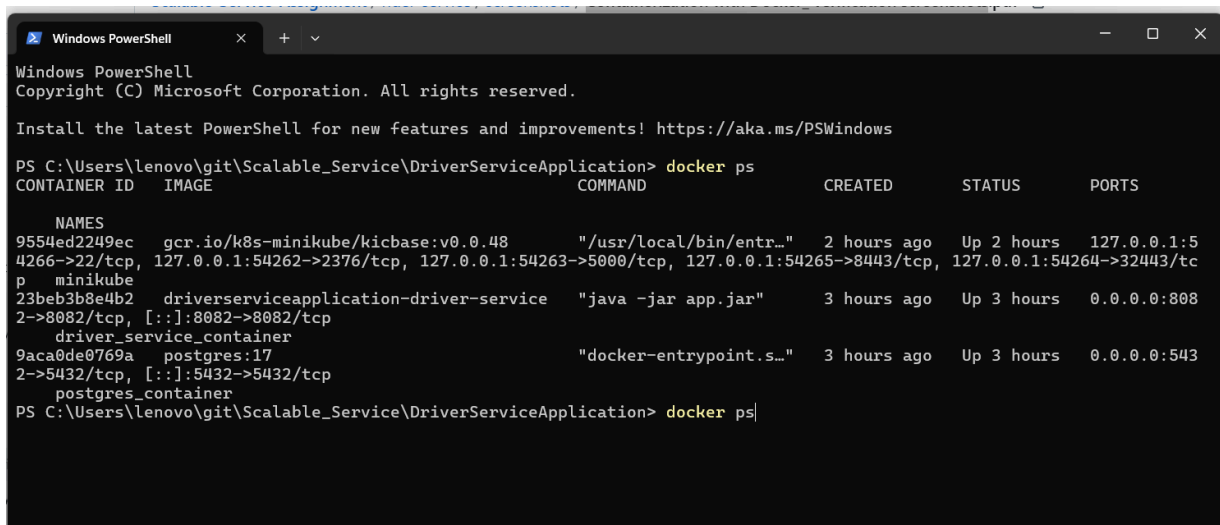


Containerization with Docker_ verification screenshots

1.Docker ps



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

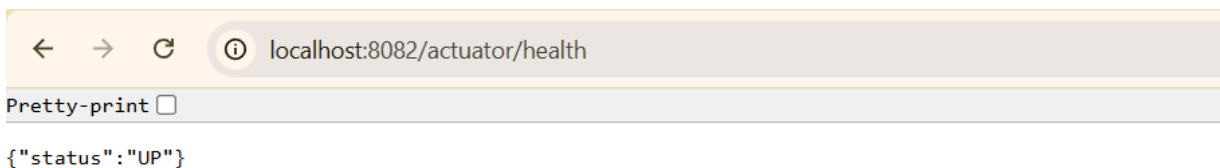
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\lenovo\git\Scalable_Service\DriverServiceApplication> docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
9554ed2249ec	gcr.io/k8s-minikube/kicbase:v0.0.48	"/usr/local/bin/entr..."	2 hours ago	Up 2 hours	127.0.0.1:54266->22/tcp, 127.0.0.1:54262->2376/tcp, 127.0.0.1:54263->5000/tcp, 127.0.0.1:54265->8443/tcp, 127.0.0.1:54264->32443/tcp
23beb3b8e4b2	driverserviceapplication-driver-service	"java -jar app.jar"	3 hours ago	Up 3 hours	0.0.0.0:8082->8082/tcp, [::]:8082->8082/tcp
9aca0de0769a	postgres:17	"docker-entrypoint.s..."	3 hours ago	Up 3 hours	0.0.0.0:5432->5432/tcp, [::]:5432->5432/tcp

```
PS C:\Users\lenovo\git\Scalable_Service\DriverServiceApplication> docker ps|
```

2.Service Health Endpoint



```
localhost:8082/actuator/health
```

Pretty-print ☐

```
{"status": "UP"}
```

3.Service Api Calls

3.1 http://localhost:8082/v1/drivers

```
localhost:8082/v1/drivers
Pretty-print
[{"driverId":1,"name":"Driver1","phone":"9743818976","vehicleType":"Bike","vehiclePlate":"KA98DX4733","active":false},
{"driverId":2,"name":"Driver2","phone":"9857811574","vehicleType":"Hatchback","vehiclePlate":"KA131T8615","active":true},
{"driverId":3,"name":"Driver3","phone":"9897180807","vehicleType":"SUV","vehiclePlate":"KA95Q27883","active":false},
{"driverId":4,"name":"Driver4","phone":"9181752240","vehicleType":"Auto","vehiclePlate":"KA87RS3232","active":false},
{"driverId":5,"name":"Driver5","phone":"9331760835","vehicleType":"SUV","vehiclePlate":"KA65SH2215","active":true},
{"driverId":6,"name":"Driver6","phone":"9750242404","vehicleType":"Hatchback","vehiclePlate":"KA94B06223","active":true},
{"driverId":7,"name":"Driver7","phone":"9395405264","vehicleType":"Sedan","vehiclePlate":"KA95E14447","active":false},
{"driverId":8,"name":"Driver8","phone":"9503863851","vehicleType":"Sedan","vehiclePlate":"KA67B5215","active":true},
{"driverId":9,"name":"Driver9","phone":"9610089761","vehicleType":"Bike","vehiclePlate":"KA65HK5901","active":false},
{"driverId":10,"name":"Driver10","phone":"9388667223","vehicleType":"Auto","vehiclePlate":"KA52LT3513","active":false},
{"driverId":11,"name":"Driver11","phone":"9912440611","vehicleType":"Hatchback","vehiclePlate":"KA10ML6251","active":true},
{"driverId":12,"name":"Driver12","phone":"9344461236","vehicleType":"Hatchback","vehiclePlate":"KA42XV1998","active":false},
{"driverId":13,"name":"Driver13","phone":"9221078366","vehicleType":"SUV","vehiclePlate":"KA28MG8767","active":true},
{"driverId":14,"name":"Driver14","phone":"9444693492","vehicleType":"SUV","vehiclePlate":"KA25F55832","active":true},
{"driverId":15,"name":"Driver15","phone":"9583626187","vehicleType":"Hatchback","vehiclePlate":"KA83NF8487","active":true},
{"driverId":16,"name":"Driver16","phone":"9281376140","vehicleType":"Bike","vehiclePlate":"KA59ZV6023","active":true},
{"driverId":17,"name":"Driver17","phone":"9708870122","vehicleType":"Sedan","vehiclePlate":"KA95X02756","active":true},
{"driverId":18,"name":"Driver18","phone":"9381564178","vehicleType":"SUV","vehiclePlate":"KA66XY1279","active":true},
{"driverId":19,"name":"Driver19","phone":"9991616574","vehicleType":"Sedan","vehiclePlate":"KA89BE3878","active":true},
{"driverId":20,"name":"Driver20","phone":"9653198385","vehicleType":"Sedan","vehiclePlate":"KA73HD5400","active":false},
{"driverId":21,"name":"Driver21","phone":"9743483930","vehicleType":"Bike","vehiclePlate":"KA531J1254","active":false},
{"driverId":22,"name":"Driver22","phone":"9866894492","vehicleType":"SUV","vehiclePlate":"KA12S29930","active":true},
{"driverId":23,"name":"Driver23","phone":"9533738774","vehicleType":"Sedan","vehiclePlate":"KA99KD4592","active":true},
{"driverId":24,"name":"Driver24","phone":"9423345916","vehicleType":"Bike","vehiclePlate":"KA24E2339","active":false},
{"driverId":25,"name":"Driver25","phone":"9651736128","vehicleType":"Auto","vehiclePlate":"KA49BC9792","active":false},
{"driverId":26,"name":"Driver26","phone":"9475993253","vehicleType":"Auto","vehiclePlate":"KA61O25136","active":false},
{"driverId":27,"name":"Driver27","phone":"9735779209","vehicleType":"Bike","vehiclePlate":"KA27XV5682","active":true},
{"driverId":28,"name":"Driver28","phone":"9384780799","vehicleType":"Sedan","vehiclePlate":"KA73HB4136","active":true},
{"driverId":29,"name":"Driver29","phone":"9671410403","vehicleType":"Hatchback","vehiclePlate":"KA88NO9977","active":true},
{"driverId":30,"name":"Driver30","phone":"9141257625","vehicleType":"Auto","vehiclePlate":"KA26XK5909","active":true},
{"driverId":31,"name":"Driver31","phone":"9277751155","vehicleType":"SUV","vehiclePlate":"KA85N18525","active":true},
{"driverId":32,"name":"Driver32","phone":"91314915630","vehicleType":"SUV","vehiclePlate":"KA67BP1369","active":true},
{"driverId":33,"name":"Driver33","phone":"9981591029","vehicleType":"SUV","vehiclePlate":"KA69VG6268","active":false},
{"driverId":34,"name":"Driver34","phone":"9685242544","vehicleType":"Hatchback","vehiclePlate":"KA73JH8280","active":true},
{"driverId":35,"name":"Driver35","phone":"9645282279","vehicleType":"Auto","vehiclePlate":"KA96OB9370","active":true},
{"driverId":36,"name":"Driver36","phone":"9583632053","vehicleType":"Hatchback","vehiclePlate":"KA37TZ8435","active":true},
{"driverId":37,"name":"Driver37","phone":"9730492355","vehicleType":"Sedan","vehiclePlate":"KA34UV5677","active":true},
{"driverId":38,"name":"Driver38","phone":"9431875329","vehicleType":"Sedan","vehiclePlate":"KA71SS1181","active":true},
{"driverId":39,"name":"Driver39","phone":"9367666357","vehicleType":"Hatchback","vehiclePlate":"KA50KQ8609","active":true},
{"driverId":40,"name":"Driver40","phone":"9654952864","vehicleType":"Bike","vehiclePlate":"KA28FC9128","active":true},
{"driverId":41,"name":"Driver41","phone":"9048546953","vehicleType":"Bike","vehiclePlate":"KA37CC3667","active":true},
{"driverId":42,"name":"Driver42","phone":"9685864737","vehicleType":"SUV","vehiclePlate":"KA73PI3189","active":false},
{"driverId":43,"name":"Driver43","phone":"9685850762","vehicleType":"Sedan","vehiclePlate":"KA81W6207","active":true},
{"driverId":44,"name":"Driver44","phone":"9734879111","vehicleType":"Sedan","vehiclePlate":"KA17LK3354","active":false},
{"driverId":45,"name":"Driver45","phone":"9263887014","vehicleType":"Auto","vehiclePlate":"KA69BC3667","active":true},
{"driverId":46,"name":"Driver46","phone":"9975071149","vehicleType":"Bike","vehiclePlate":"KA16FM4344","active":true}]
```

3.2 http://localhost:8082/v1/drivers/1

```
localhost:8082/v1/drivers/1
Pretty-print
{"driverId":1,"name":"Driver1","phone":"9743818976","vehicleType":"Bike","vehiclePlate":"KA98DX4733","active":false}
```

4.Monitoring and Logging :

4.1 Service Metrics

```
localhost:8082/actuator/metrics x +
localhost:8082/actuator/metrics
Pretty-print
{
  "names": [
    "application.ready.time",
    "application.started.time",
    "disk.free",
    "disk.total",
    "executor.active",
    "executor.completed",
    "executor.pool.core",
    "executor.pool.max",
    "executor.pool.size",
    "executor.queue.remaining",
    "executor.queued",
    "hikaricp.connections",
    "hikaricp.connections.acquire",
    "hikaricp.connections.active",
    "hikaricp.connections.creation",
    "hikaricp.connections.idle",
    "hikaricp.connections.max",
    "hikaricp.connections.min",
    "hikaricp.connections.pending",
    "hikaricp.connections.timeout",
    "hikaricp.connections.usage",
    "http.server.requests",
    "http.server.requests.active",
    "jdbc.connections.active",
    "jdbc.connections.idle",
    "jdbc.connections.max",
    "jdbc.connections.min",
    "jvm.buffer.count",
    "jvm.buffer.memory.used",
    "jvm.buffer.total.capacity",
    "jvm.classes.loaded",
    "jvm.classes.unloaded",
    "jvm.compilation.time",
    "jvm.gc.live.data.size",
    "jvm.gc.max.data.size",
    "jvm.gc.memory.allocated",
    "jvm.gc.memory.promoted",
    "jvm.gc.overhead",
    "jvm.gc.pause",
    "jvm.info",
    "jvm.memory.committed",
    "jvm.memory.max",
    "jvm.memory.usage.after.gc",
    "jvm.memory.used"
  ]
}
```

```
localhost:8082/actuator/metrics/application.ready.time
Pretty-print
{
  "name": "application.ready.time",
  "description": "Time taken for the application to be ready to service requests",
  "baseUnit": "seconds",
  "measurements": [
    {
      "statistic": "VALUE",
      "value": 9.358
    }
  ],
  "availableTags": [
    {
      "tag": "main.application.class",
      "values": [
        "com.driverservice.DriverServiceApplication"
      ]
    }
  ]
}
```

4.2 Database Logs :

pgAdmin 4

File Object Tools Edit View Window Help

Object Explorer

- └─> Uasts
- └─> Catalogs (2)
- └─> Event Triggers
- └─> Extensions
- └─> Foreign Data Wrappers
- └─> Languages (1)
- └─> Publications
- └─> Schemas (1)
 - └─> public
 - └─> Aggregates
 - └─> Collations
 - └─> Domains
 - └─> FTS Configurations
 - └─> FTS Dictionaries
 - └─> FTS Parsers
 - └─> FTS Templates
 - └─> Foreign Tables
 - └─> Functions
 - └─> Materialized Views
 - └─> Operators
 - └─> Procedures
 - └─> Sequences
 - └─> **Tables**
 - └─> Trigger Functions
 - └─> Types
 - └─> Views
- └─> Subscriptions
- └─> postgres
- └─> rider_db
- └─> Login/Group Roles
- └─> Tablespace

Dependents x CampusGearDB/p... x rider_db/postgres... x driver_db/postgres... x driver_db/postgres@PostgreSQL 17*

driver_db/postgres@PostgreSQL 17

Query Query History Scratch Pad x

```
1 select * from public.drivers;
```

Data Output Messages Notifications

Showing rows: 1 to 70 Page No: 1 of 1

	driver_id [PK] character varying (50)	name character varying (100)	phone character varying (15)	vehicle_type character varying (50)	vehicle_plate character varying (20)	is_active boolean
1	1	Driver1	9743818976	Bike	KA98DX4733	false
2	2	Driver2	9857811574	Hatchback	KA13IT8615	true
3	3	Driver3	9807180007	SUV	KA95QQ7883	false
4	4	Driver4	9101752240	Auto	KA87RS3232	false
5	5	Driver5	9331760835	SUV	KA65SH2215	true
6	6	Driver6	9750242404	Hatchback	KA94B06223	true
7	7	Driver7	9395405264	Sedan	KA95EJ4447	false
8	8	Driver8	9503863051	Sedan	KA67EB5215	true
9	9	Driver9	9610089761	Rike	KA65HK5901	false

Total rows: 70 Query complete 00:00:00.363 CRLF L