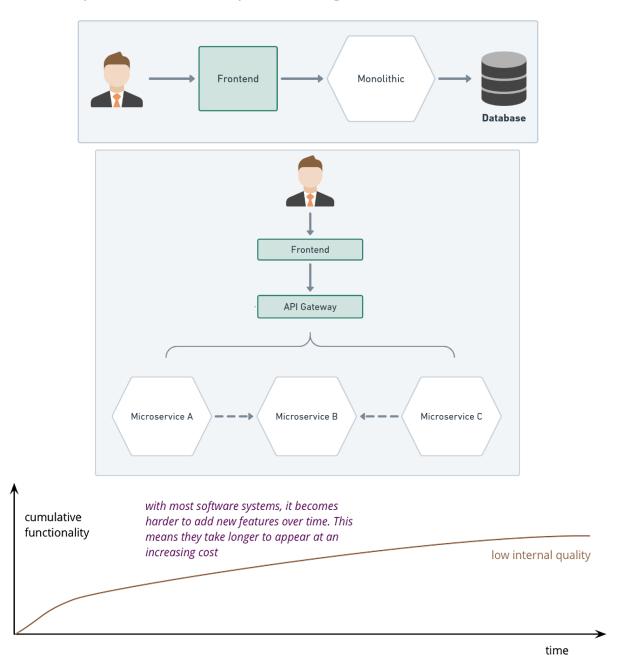
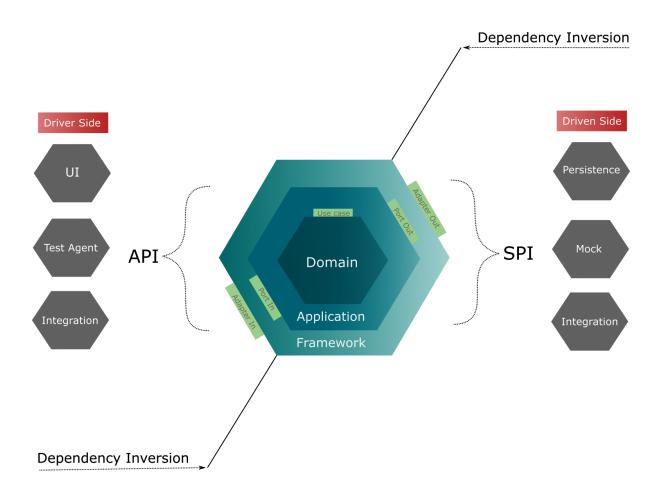
Chapter 1: Why Hexagonal Architecture?





Domain

Entities

Value Objects

Application

Use Cases

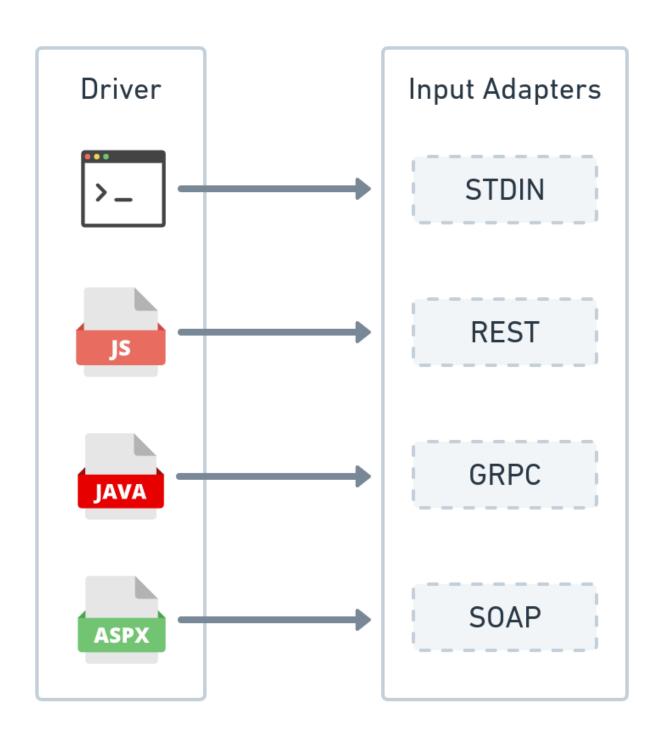
Input Ports

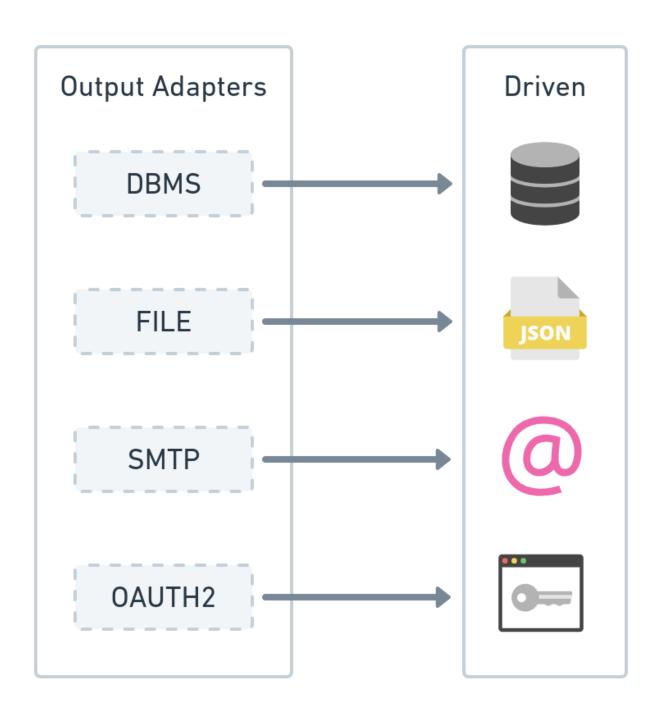
Output Ports

Framework

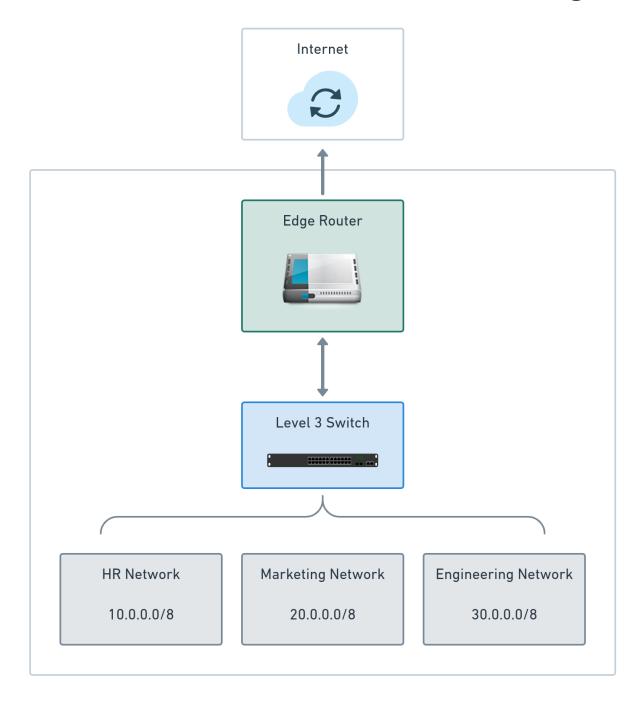
Input Adapters

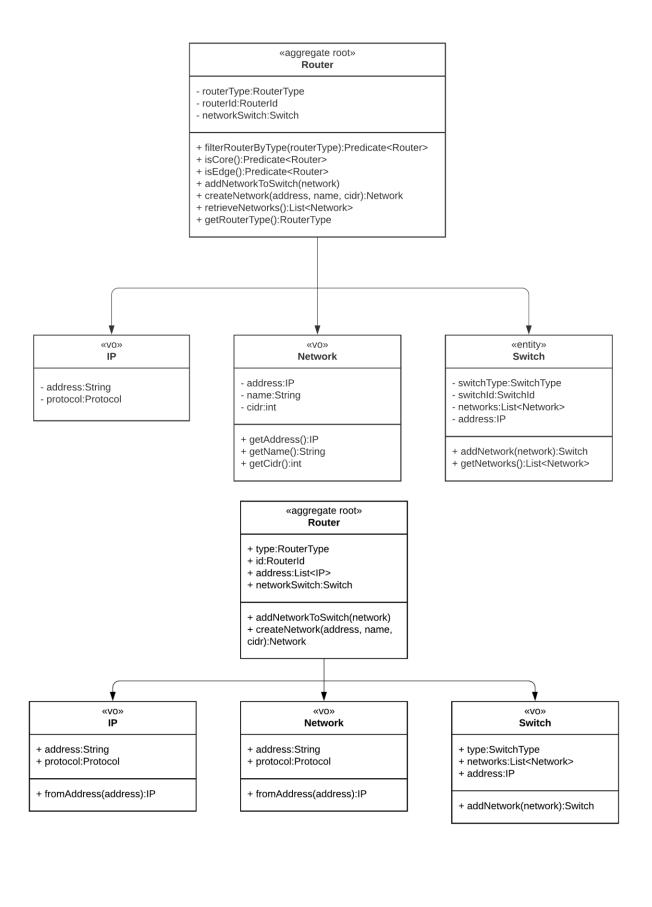
Output Adapters



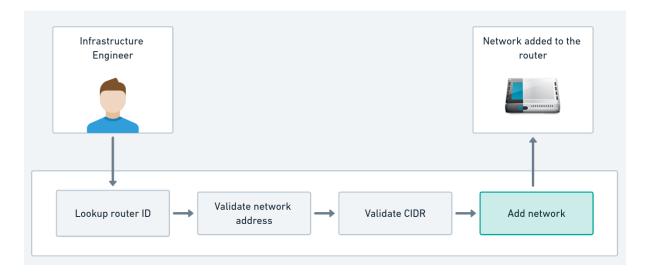


Chapter 2: Wrapping Business Rules inside Domain Hexagon





Chapter 3: Handling Behavior with Ports and Use Cases

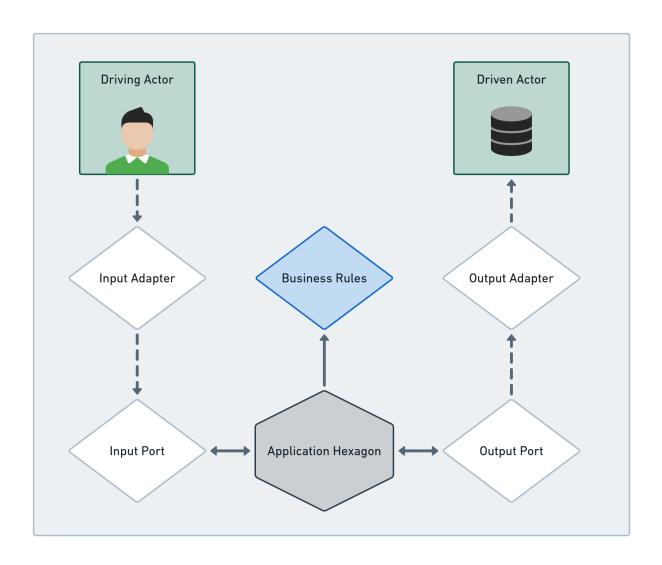


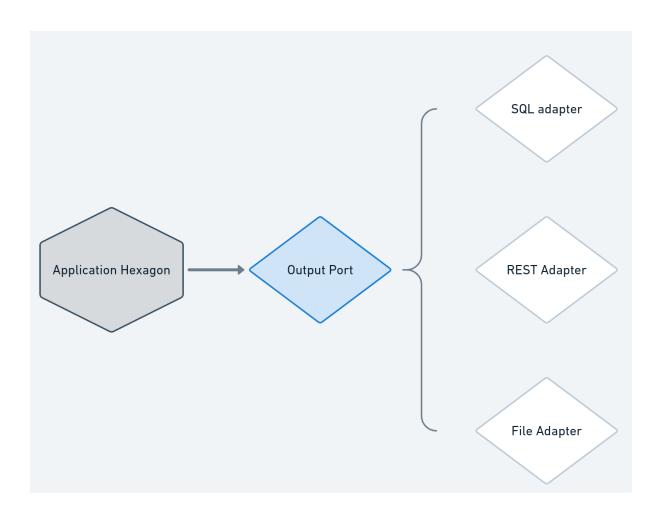
«use case» RouterNetworkUseCase

+ addNetworkToRouter(routerId, network):Router

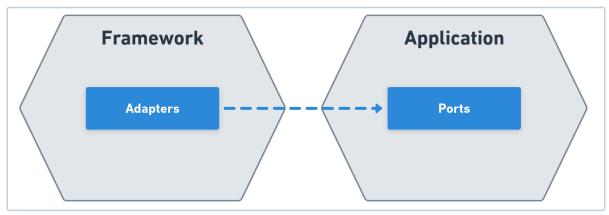
«input port» RouterNetworkInputPort

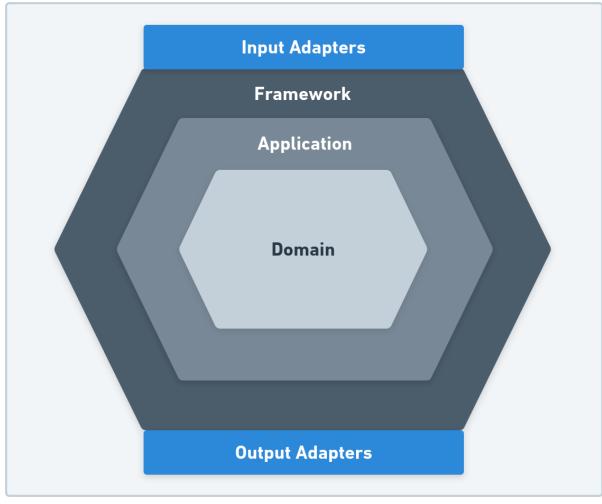
- routerNetworkOutputPort:RouterNetworkOutputPort
- fetchRouter(routerId):Router
- createNetwork(router, network):Router
- persistNetwork(router):Router

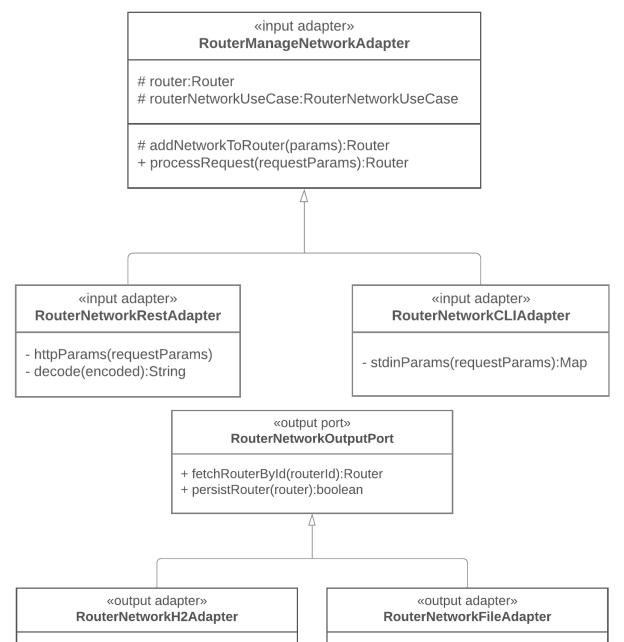




Chapter 4: Creating Adapters to Interact with the Outside World

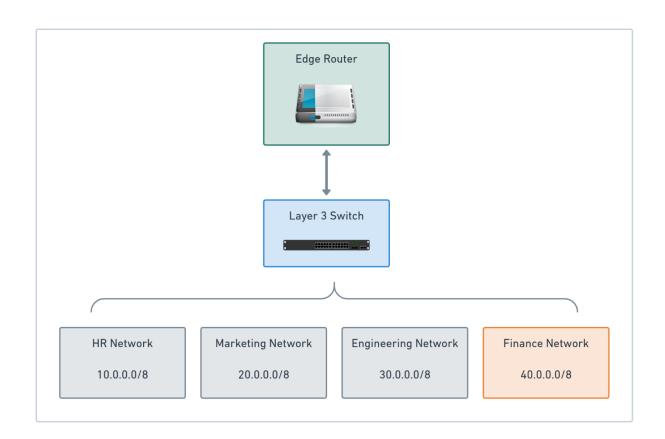




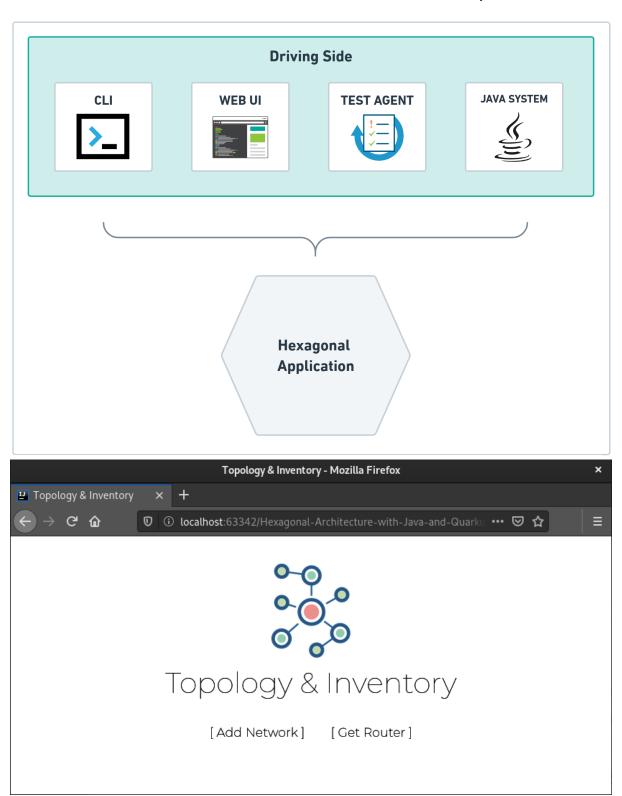


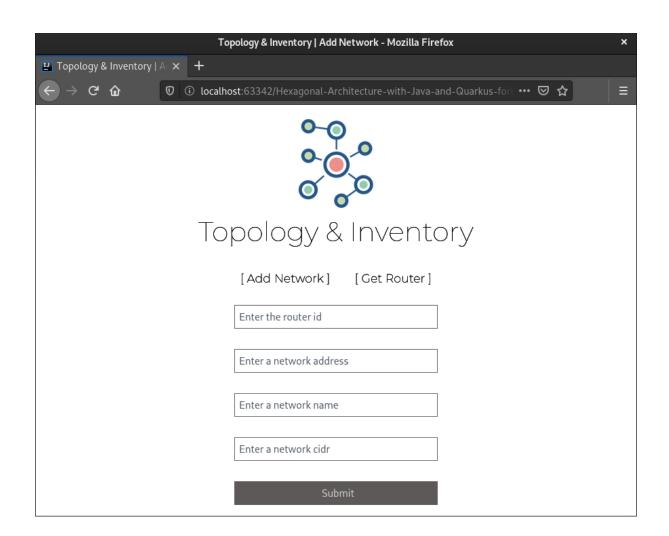
- instance:RouterNetworkH2Adapter
- em:EntityManager
- + getInstance():RouterNetworkH2Adapter
- setUpH2Database()

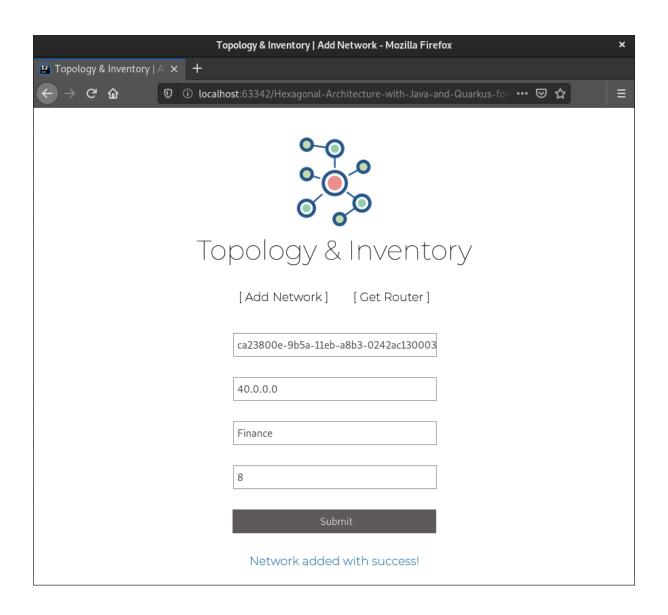
- instance:RouterNetworkFileAdapter
- routers:List<RouterJson>
- resource:InputStream
- objectMapper:ObjectMapper
- + getInstance():RouterNetworkFileAdapter
- readJsonFile()

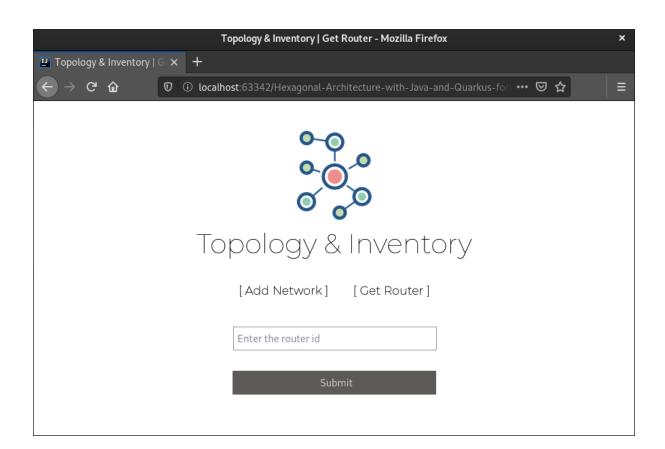


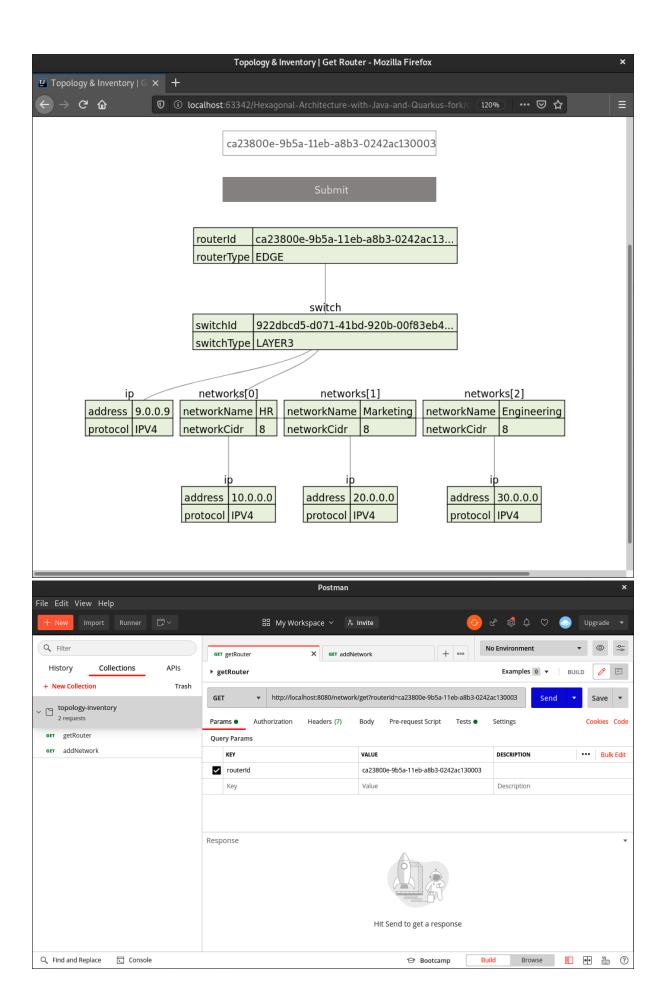
Chapter 5: Exploring the Nature of Driving and Driven Operations











Q

GET http://localhost:8080/network/get?routerId=ca23800e-9b5a-11eb-a8b3-0242ac130003 [200 OK, 574 B, 232ms]

m4ndr4ck@casanova:~/IdeaProjects/Hexagonal-Architecture-with-Java-and-Quarkus-fork/chapter5

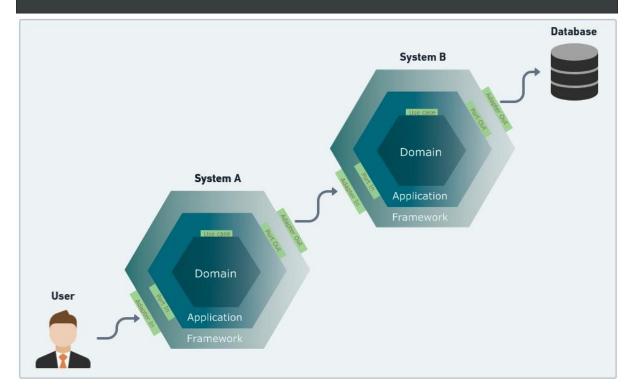
- Status code is 200
- The response has all properties

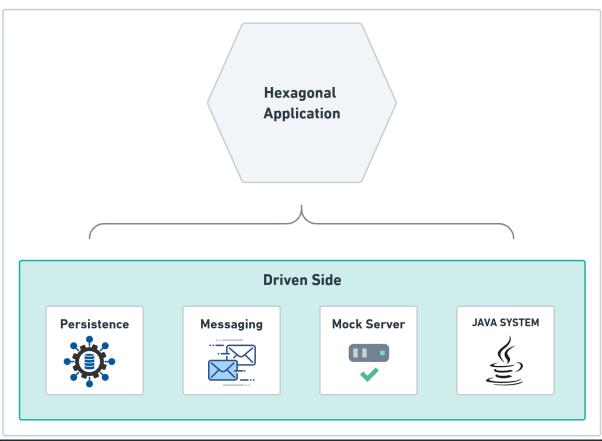
GET http://localhost:8080/network/add?routerId=ca23800e-9b5a-1leb-a8b3-0242ac130003&address=40.0 .0.0&name=Finance&cidr=8 [200 OK, 664B, 10ms]

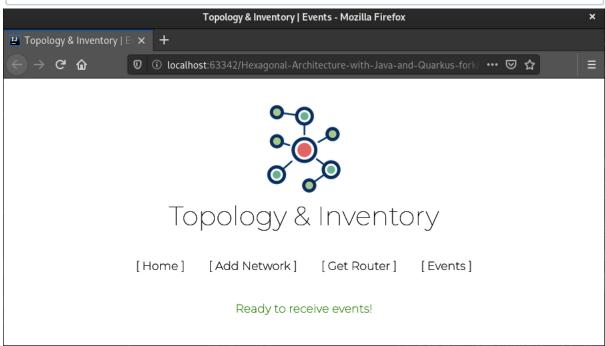
- Status code is 200
- The response has all properties

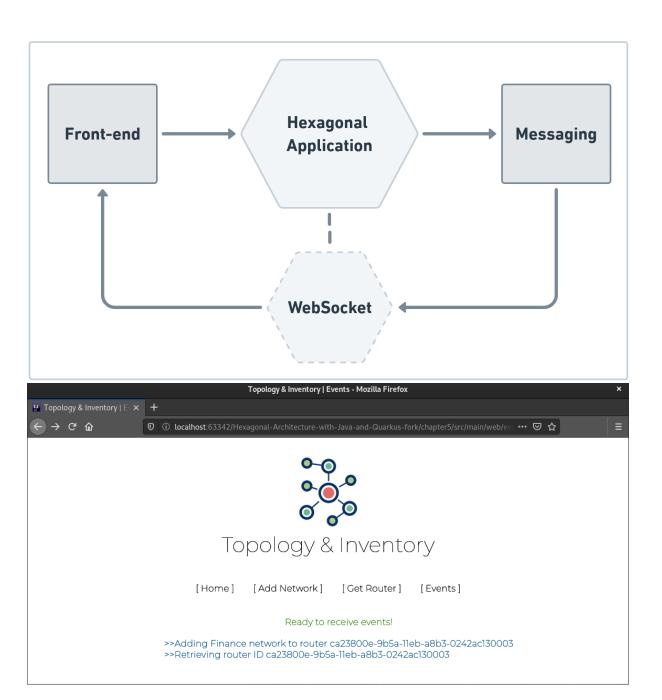
	executed	failed
iterations	1	0
requests	2	0
test-scripts	2	0
prerequest-scripts	0	0
assertions	4	0
total run duration: 296ms		

[m4ndr4ck@casanova chapter5]\$



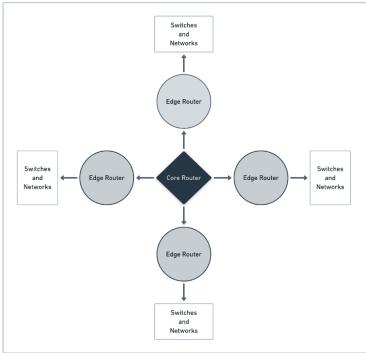


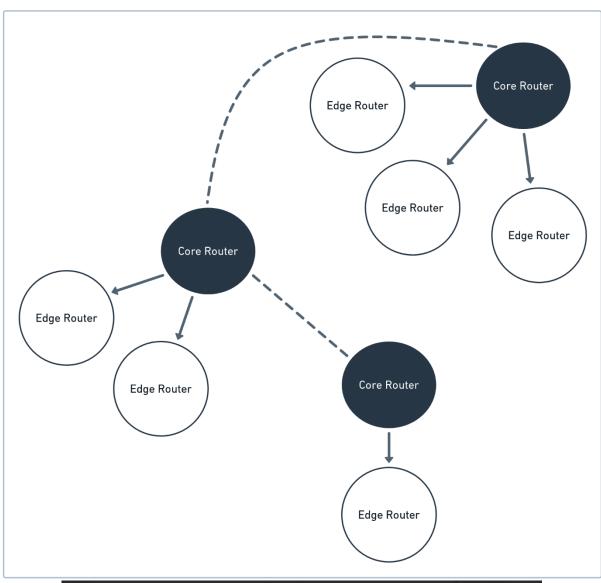


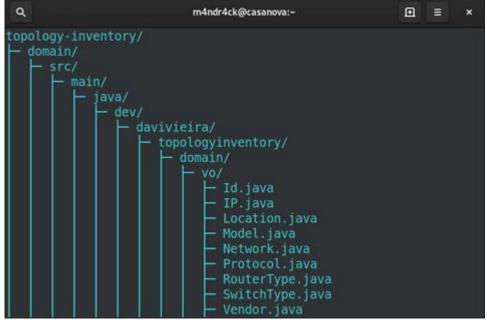


Chapter 6: Building the Domain Hexagon











Chapter 7: Building the Application Hexagon

Chapter 8: Building the Framework Hexagon

```
topology-inventory/

framework/

src/

main/

dev/

topologyinventory/

framework/

framework/

test/

java/

dev/

dev/

topologyinventory/

test/

java/

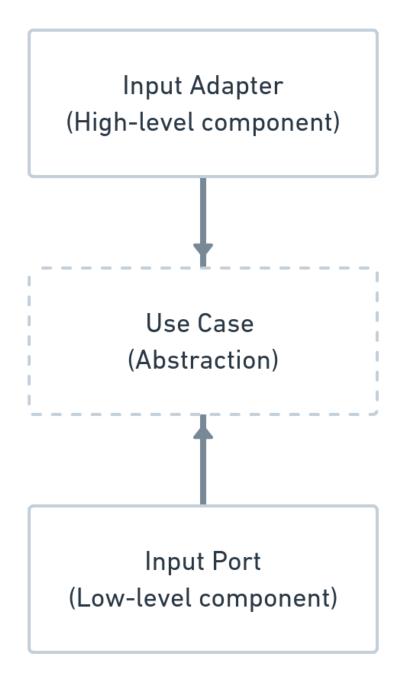
dev/

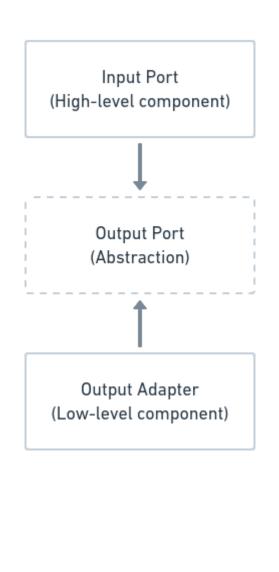
framework/

pom.xml

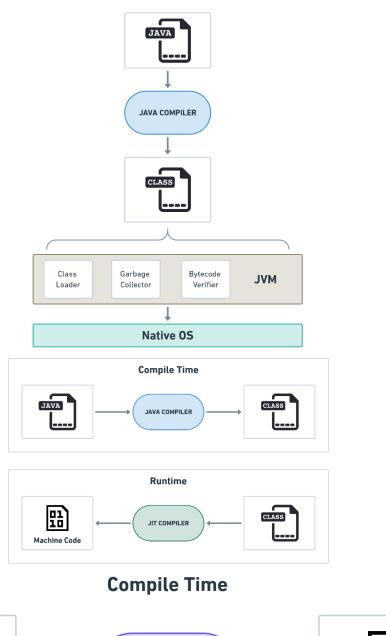
pom.xml
```

Chapter 9: Applying Dependency Inversion with Java Modules

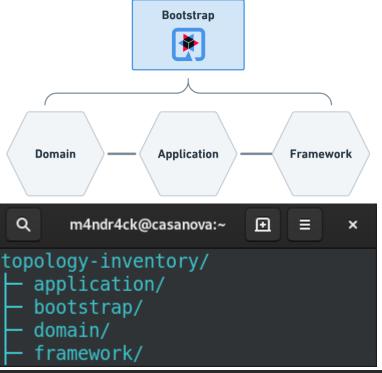


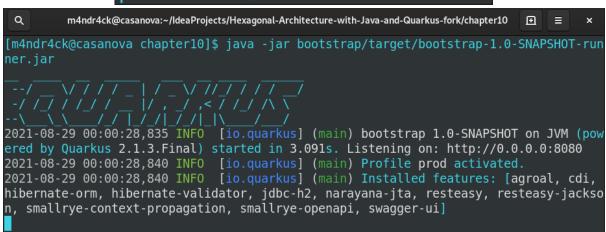


Chapter 10: Adding Quarkus to a Modularized Hexagonal Application





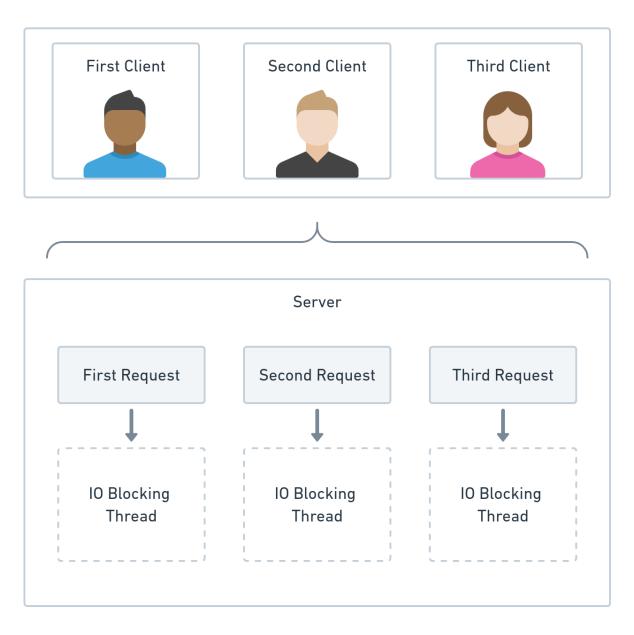


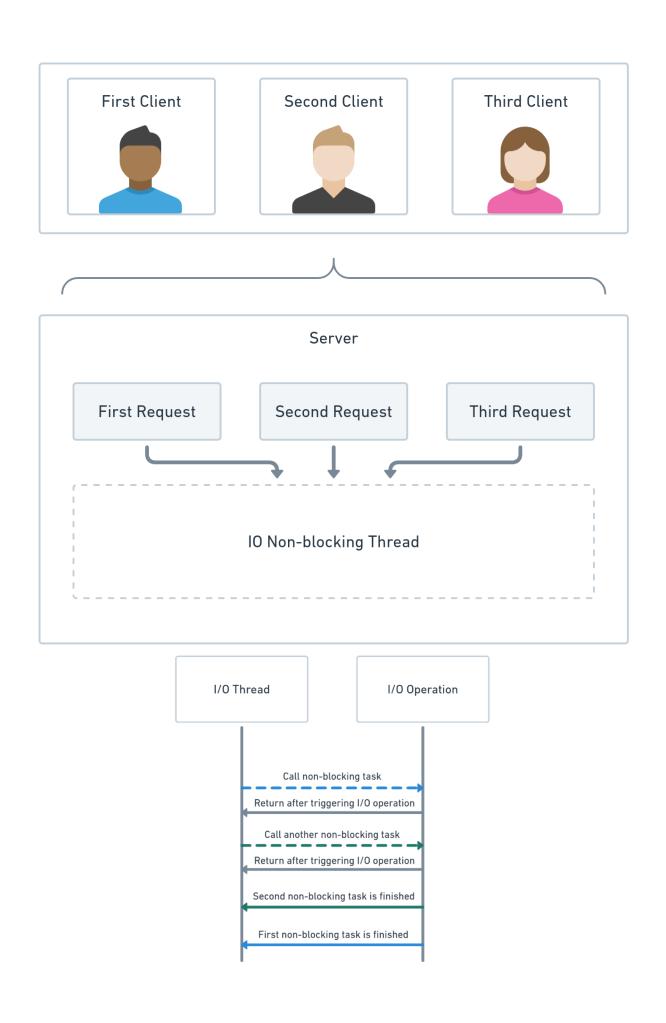


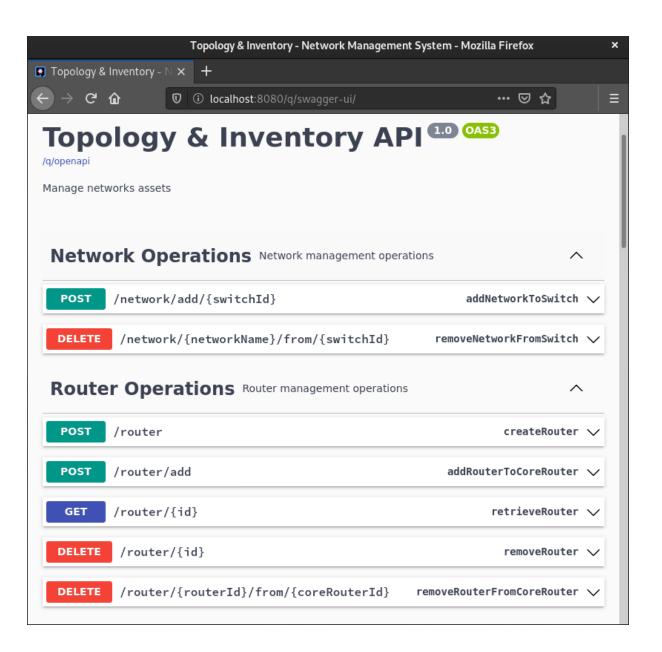
Chapter 11: Leveraging CDI Beans to Manage Ports and Use Cases

No images...

Chapter 12: Using RESTEasy Reactive to Implement Input Adapters



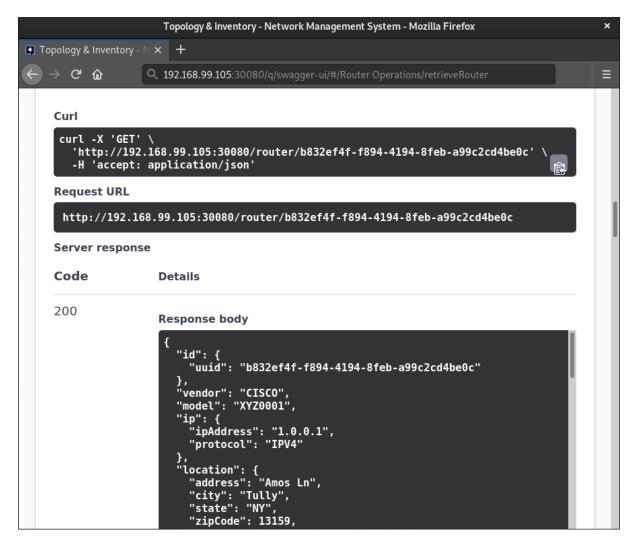




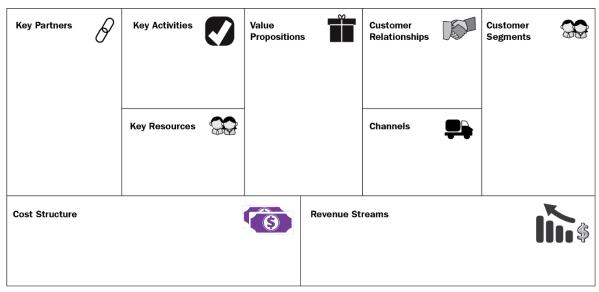
Chapter 13: Persisting Data with Output Adapters and Hibernate Reactive

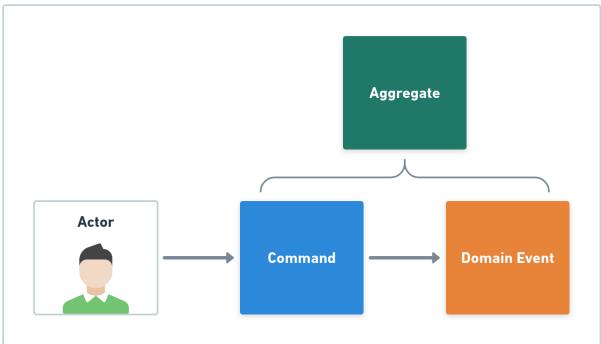
No images...

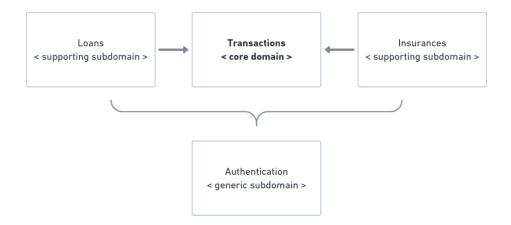
Chapter 14: Setting Up Dockerfile and Kubernetes Objects for Cloud Deployment



Chapter 15: Good Design Practices for Your Hexagonal Application







Domain Hexagon

Inventory Core Domain

Status Subdomain