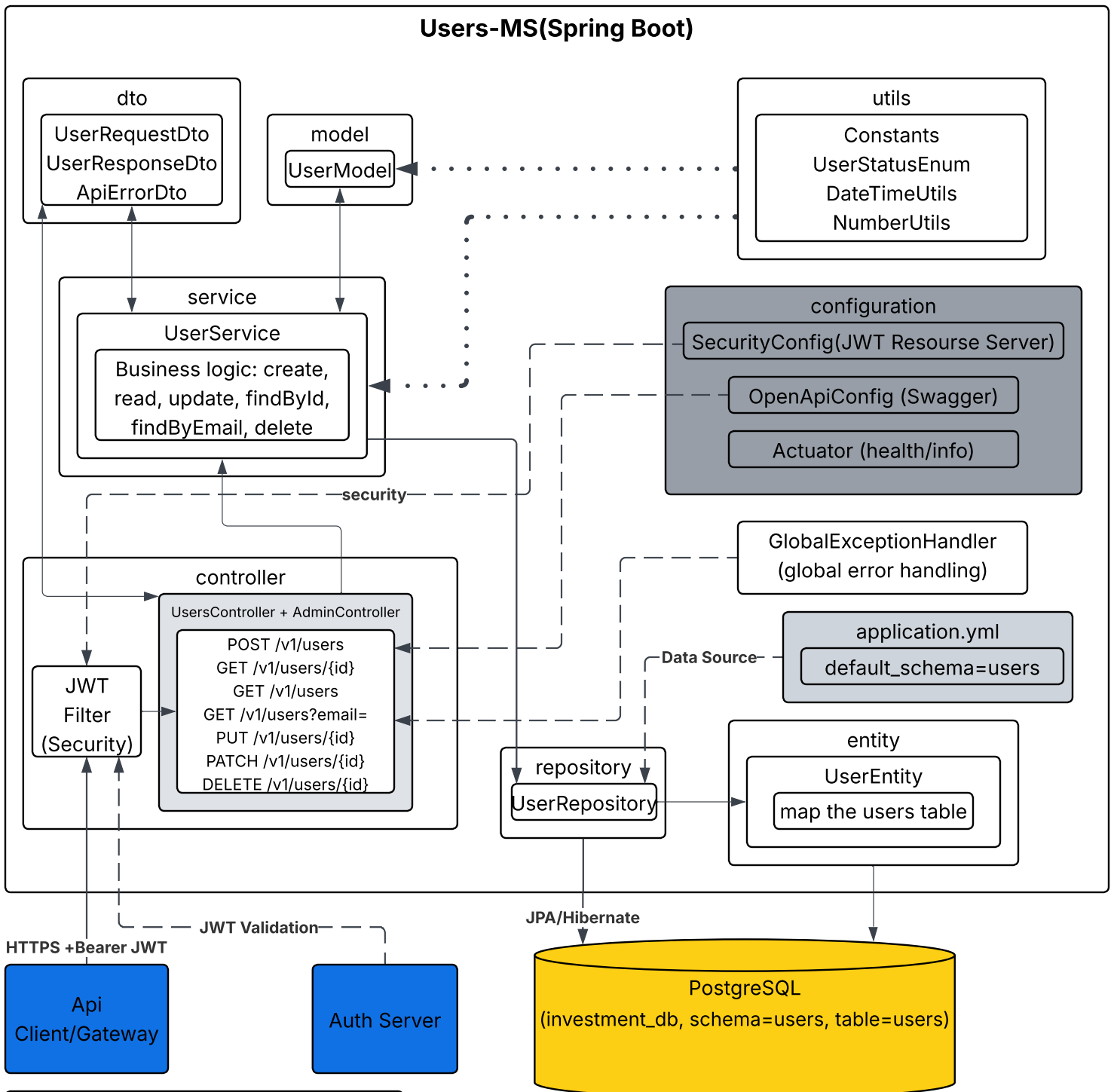


C3 – Users-MS (Component Diagram)



Legend:

Colors → White=internal, Dark Gray=configuration, Light Gray=application.yml, Lighter Gray=controllers, Blue=external, Yellow=DB

Lines → Solid=dependency, Dashed=config/security, Dotted=utils

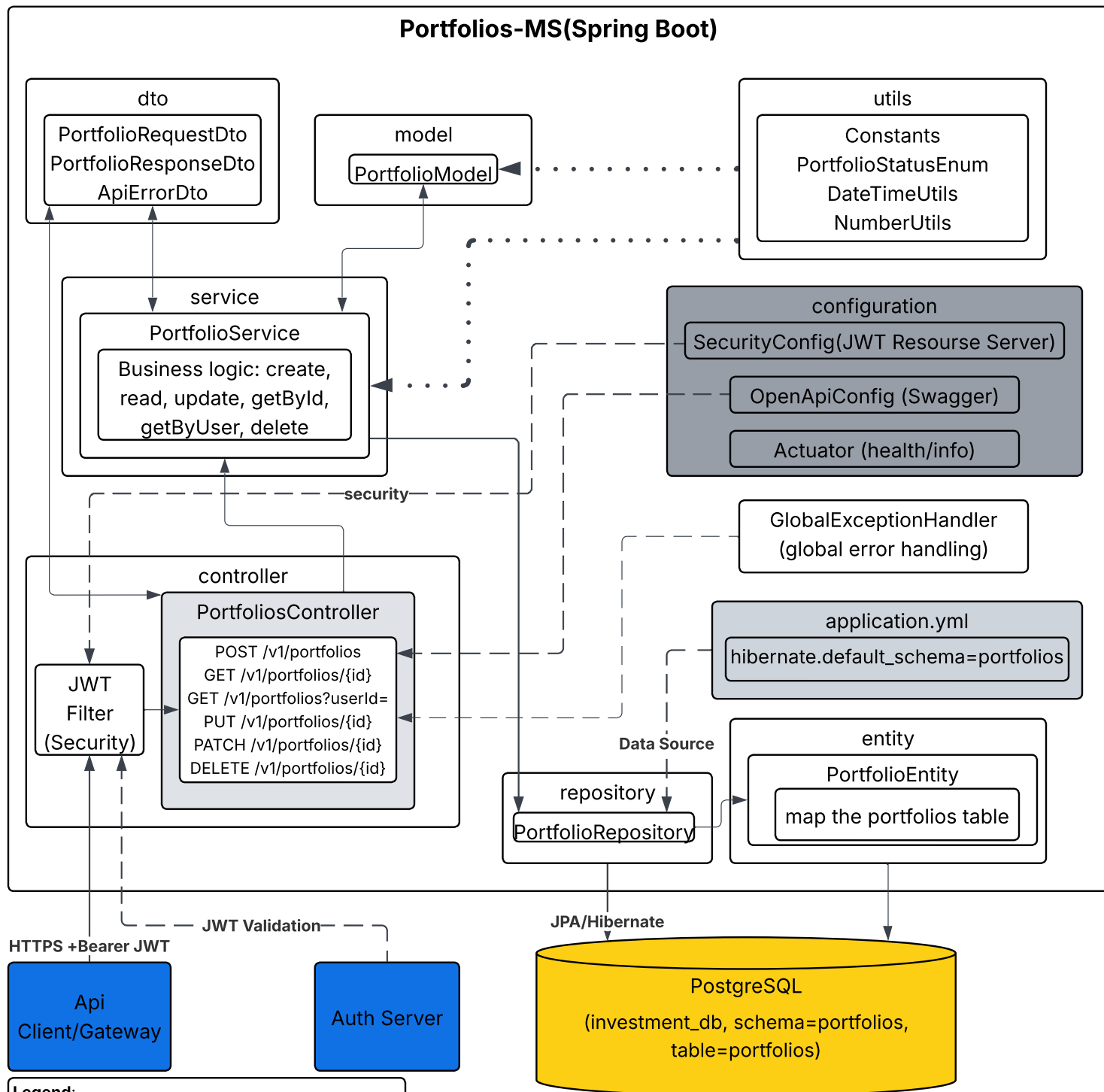
Flow → Client→JWT Filter→Controller →Service→Repository→Entity→DB
Controller ↔ DTO, Service ↔ Model/DTO

Naming → Controller=plural, others=singular, Utils/Constants=plural

DB → investment_db, schema=users, table=users

Author: Remus-Ciprian Cotunoaea
Version: 1.0
Date: 08/09/2025
Notation: C3 Container Diagram

C3 – Portfolios-MS (Component Diagram)



Legend:

Colors → White=internal, Dark Gray=configuration,
Light Gray=application.yml, Lighter
Gray=controllers, Blue=external, Yellow=DB

Lines → Solid=dependency,
Dashed=config/security,
Dotted=utils

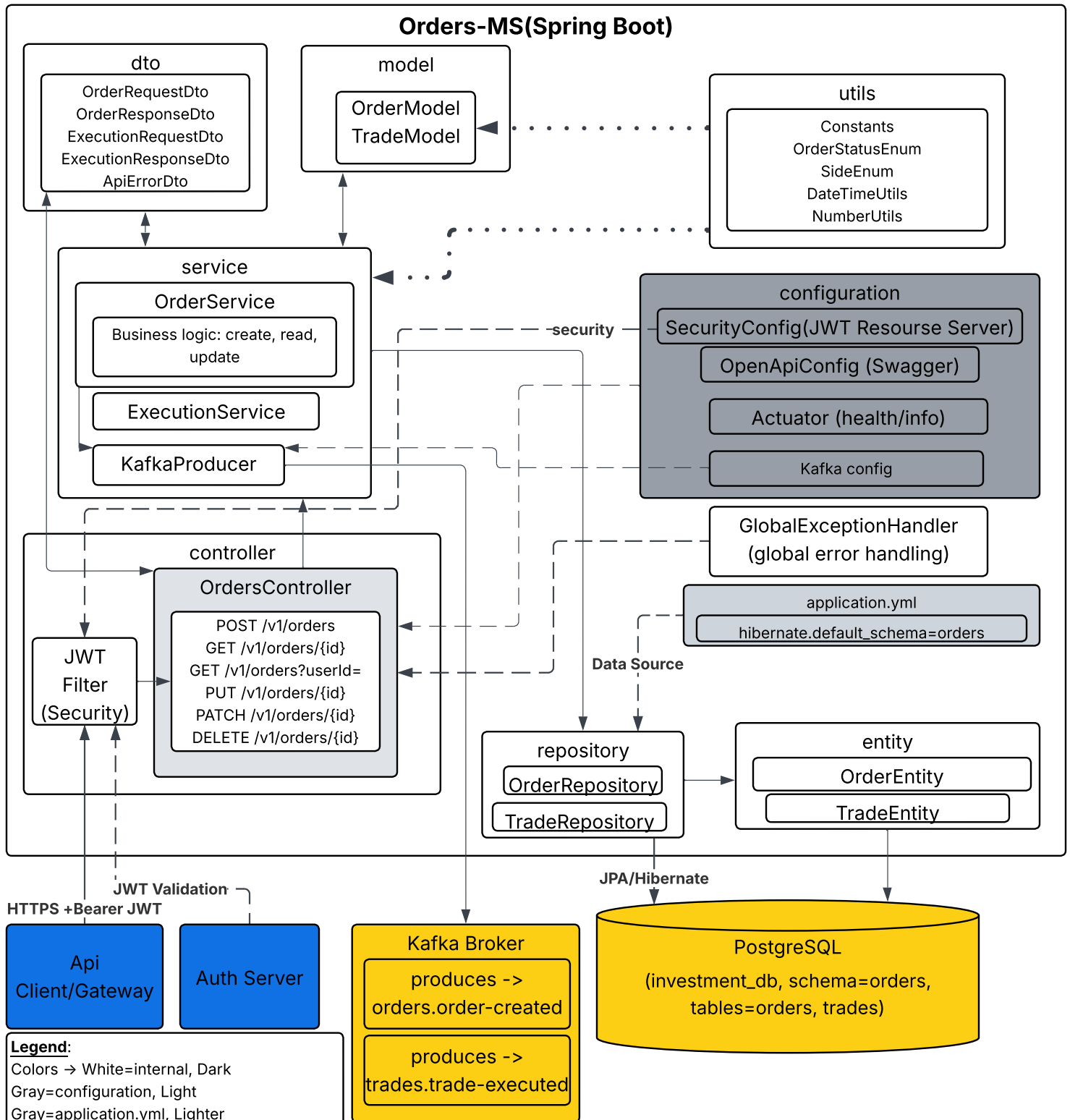
Flow → Client→JWT Filter→Controller
→Service→Repository→Entity→DB
Controller↔DTO, Service↔Model/DTO

Naming → Controller=plural,
others=singular,
Utils/Constants=plural

DB → investment_db,
schema=portfolios,
table=portfolios

Author: Remus-Ciprian Cotunoaea
Version: 1.0
Date: 08/09/2025
Notation: C3 Container Diagram

C3 – Orders-MS (Component Diagram)



Legend:

Colors → White=internal, Dark Gray=configuration, Light Gray=application.yml, Lighter Gray=controllers, Blue=external, Yellow=DB/Kafka

Lines → Solid=dependency, Dashed=config/security, Dotted=utils

Flow → Client→JWT
Filter→Controller→Service
Service→Repo→Entity→DB
Service→KafkaProducer→Broker

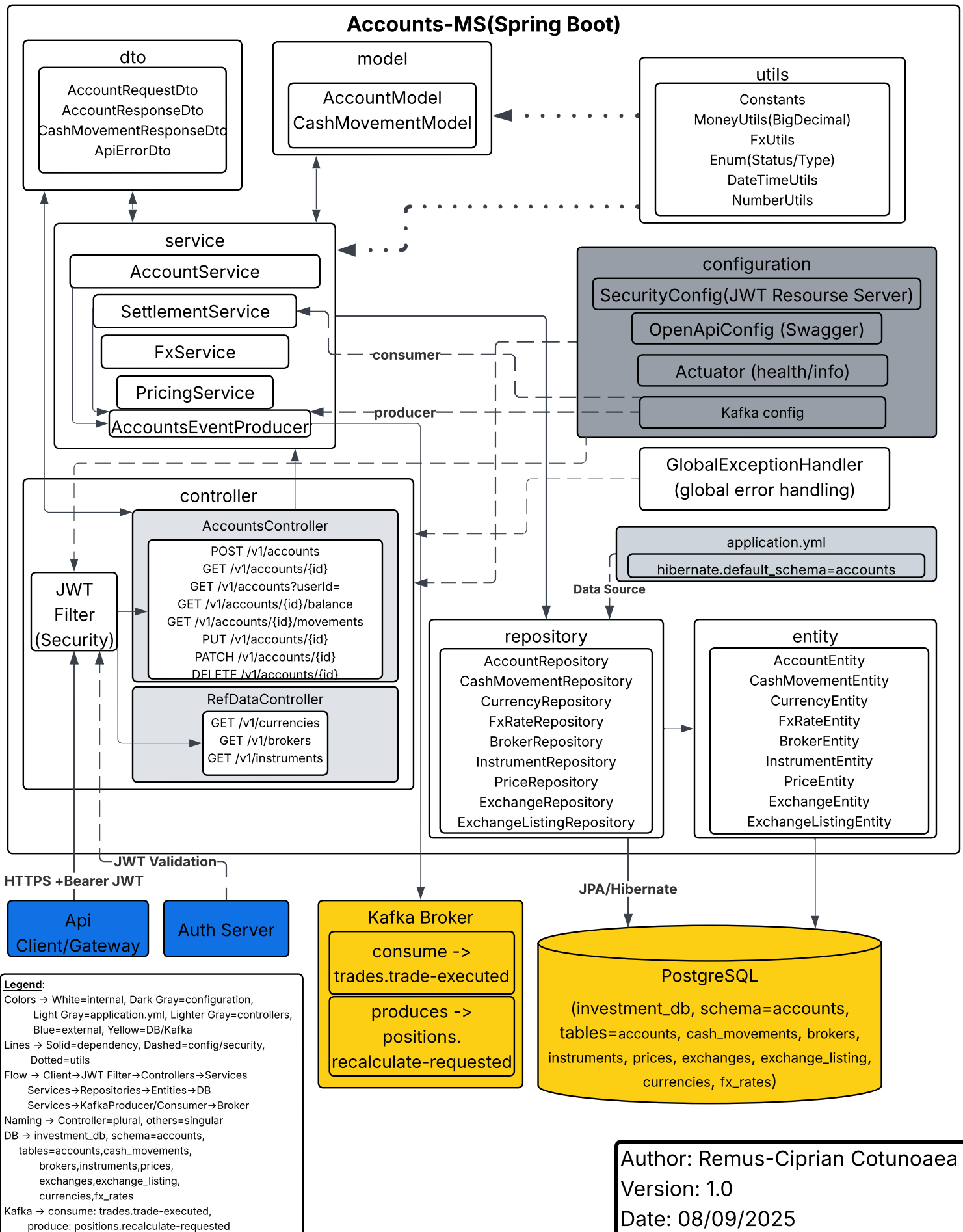
Naming → Controller=plural, others=singular

DB → investment_db, schema=orders, tables=orders, trades

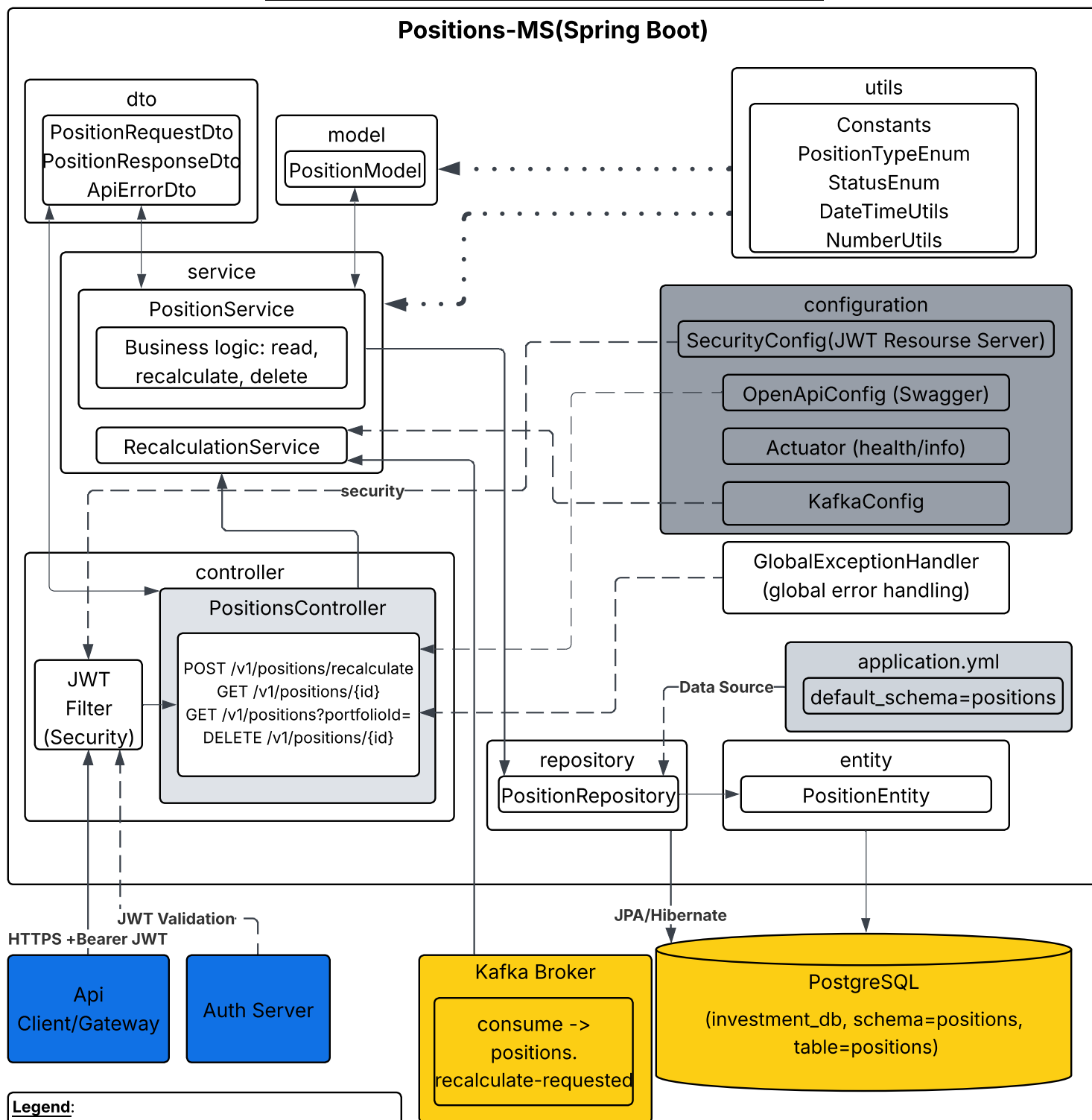
Kafka → produces: orders.order-created, trades.trade-executed

Author: Remus-Ciprian Cotunoaea
Version: 1.0
Date: 08/09/2025
Notation: C3 Container Diagram

C3 – Accounts-MS (Component Diagram)



C3 – Positions-MS (Component Diagram)



Legend:

Colors → White=internal, Dark Gray=configuration,
Light Gray=application.yml, Lighter
Gray=controllers,
Blue=external, Yellow=DB/Kafka
Lines → Solid=dependency,
Dashed=configuration/security, Dotted=utils
Flow → Client→JWT
Filter→Controllers→Services→Repositories→
Entities→Database
Kafka Broker→RecalculationService (consume)
Naming → Controllers=plural, others=singular
Database → investment_db, schema=positions,
table=positions
Kafka → consume: positions.recalculate-requested

Author: Remus-Ciprian Cotunoaea
Version: 1.0
Date: 08/09/2025
Notation: C3 Container Diagram