

Documento correr localmente

1. Correr el comando mvn clean install para generar el jar

```
Terminal Local x Local (2) x + v"
Windows PowerShell
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Instale la versión más reciente de PowerShell para obtener nuevas características y mejoras. https://aka.ms/PSWindows

PS D:\DEV\PRUEBA-SETI> mvn clean install
```

2. Jar generado

```
Terminal Local x + v"
[INFO] Running com.bank.inc.prueba_nexos.domain.Rules.DomainRulesTest
[INFO] Tests run: 5, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.044 s -- in com.bank.inc.prueba_nexos.domain.Rules.DomainRulesTest
[INFO] Running com.bank.inc.prueba_nexos.infrastructure.adapter.postgres.mapper.CardMapperTest
[INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.056 s -- in com.bank.inc.prueba_nexos.infrastructure.adapter.postgres.mapper.CardMapperTest
[INFO] Running com.bank.inc.prueba_nexos.infrastructure.adapter.postgres.mapper.TransactionMapperTest
[INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.346 s -- in com.bank.inc.prueba_nexos.infrastructure.adapter.postgres.mapper.TransactionMapperTest
[INFO] Results:
[INFO] Tests run: 29, Failures: 0, Errors: 0, Skipped: 0
[INFO] --- jar:3.4.2:jar (default-jar) @ prueba-nexos ---
[INFO] Building jar: D:\DEV\prueba-nexos\target\prueba-nexos-0.0.1-SNAPSHOT.jar
[INFO] --- spring-boot:4.0.2:repackage (repackage) @ prueba-nexos ---
[INFO] Replacing main artifact D:\DEV\prueba-nexos\target\prueba-nexos-0.0.1-SNAPSHOT.jar with repackaged archive, adding nested dependencies in BOOT-INF/.
[INFO] The original artifact has been renamed to D:\DEV\prueba-nexos\target\prueba-nexos-0.0.1-SNAPSHOT.jar.original
[INFO] --- jacoco:0.8.11:report (report) @ prueba-nexos ---
[INFO] Loading execution data file D:\DEV\prueba-nexos\target\jacoco.exec
[INFO] Analyzed bundle 'prueba-nexos' with 17 classes
[INFO] --- install:3.1.4:install (default-install) @ prueba-nexos ---
[INFO] Installing D:\DEV\prueba-nexos\pom.xml to C:\Users\jonat\.m2\repository\com\bank\inc\prueba-nexos\0.0.1-SNAPSHOT\prueba-nexos-0.0.1-SNAPSHOT.pom
[INFO] Installing D:\DEV\prueba-nexos\target\prueba-nexos-0.0.1-SNAPSHOT.jar to C:\Users\jonat\.m2\repository\com\bank\inc\prueba-nexos\0.0.1-SNAPSHOT\prueba-nexos-0.0.1-SNAPSHOT.jar
[INFO] BUILD SUCCESS
[INFO] Total time: 42.848 s
[INFO] Finished at: 2026-01-30T03:29:50-05:00
[INFO]
PS D:\DEV\prueba-nexos>
```

3. Ejecutar docker-compose up

```
Terminal Local x + v
PS D:\DEV\prueba-nexos> docker-compose up
```

4. la imagen se ejecutan

```
Terminal Local x + v
prueba-nexos | 2026-01-30T08:31:16.052Z WARN 1 --- [prueba-nexos] [      main] org.hibernate.orm.deprecation : HHH90000025: PostgreSQLDialect does not need to be
specified explicitly using 'hibernate.dialect' (remove the property setting and it will be selected by default)
prueba-nexos | 2026-01-30T08:31:16.107Z INFO 1 --- [prueba-nexos] [      main] org.hibernate.orm.connections.pooling : HHH10001005: Database info:
prueba-nexos | Database JDBC URL [jdbc:postgresql://postgres:5432/bank_inc]
prueba-nexos | Database driver: PostgreSQL JDBC Driver
prueba-nexos | Database dialect: PostgreSQLDialect
prueba-nexos | Database version: 18.1
prueba-nexos | Default catalog/schema: bank_inc/public
prueba-nexos | Autocommit mode: undefined/unknown
prueba-nexos | Isolation level: READ_COMMITTED [default READ_COMMITTED]
prueba-nexos | JDBC fetch size: none
prueba-nexos | Pool: DataSourceConnectionProvider
prueba-nexos | Minimum pool size: undefined/unknown
prueba-nexos | Maximum pool size: undefined/unknown
prueba-nexos | 2026-01-30T08:31:17.647Z INFO 1 --- [prueba-nexos] [      main] org.hibernate.orm.core : HHH000489: No JTA platform available (set 'hibernat
e.transaction.jta.platform' to enable JTA platform integration)
prueba-nexos | Hibernate: create table card (card_id varchar(255) not null, balance numeric(38,2), created_at timestamp(6), currency varchar(255) check ((currency in ('USD','EUR')
)), expiration_date date, first_name varchar(255), last_name varchar(255), product_id varchar(255), status varchar(255) check ((status in ('INACTIVE','ACTIVE','BLOCKED','EXPIRED'))
), primary key (card_id))
prueba-nexos | Hibernate: create table transaction (transaction_id bigint generated by default as identity, amount numeric(38,2), reversed boolean not null, transaction_date times
tamp(6), card_entity_card_id varchar(255), primary key (transaction_id))
prueba-nexos | Hibernate: alter table if exists transaction add constraint FKtroakywcih025nwh1um9uadt foreign key (card_entity_card_id) references card
prueba-nexos | 2026-01-30T08:31:17.768Z INFO 1 --- [prueba-nexos] [      main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistenc
e unit 'default'
prueba-nexos | 2026-01-30T08:31:17.906Z INFO 1 --- [prueba-nexos] [      main] o.s.d.j.r.query.QueryEnhancerFactory$es : Hibernate is in classpath; If applicable, HQL parse
r will be used.
prueba-nexos | 2026-01-30T08:31:18.395Z WARN 1 --- [prueba-nexos] [      main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Then
efore, database queries may be performed during view rendering. Explicitly configure spring.jpa.open-in-view to disable this warning
prueba-nexos | 2026-01-30T08:31:19.206Z INFO 1 --- [prueba-nexos] [      main] o.s.boot.tomcat.TomcatWebServer : Tomcat started on port 9000 (http) with context pat
h '/'
prueba-nexos | 2026-01-30T08:31:19.234Z INFO 1 --- [prueba-nexos] [      main] c.b.i.p.PruebaNexosApplication : Started PruebaNexosApplication in 12.112 seconds (p
rocess running for 10.621)
View in Docker Desktop View Config Enable Watch
```

5.verificar con el comando de docker ps

```
jonat@DESKTOP-FH1602E MINGW64 /d/DEV/prueba-nexos (main)
$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS                                                                 NAMES
ea6a56af8748   nexos:v1   "java -jar app.jar"     54 seconds ago Up 54 seconds  0.0.0.0:9000->9000/tcp, [::]:9000->9000/tcp  prueba-nexos
f5cbfe4d8f89   postgres  "docker-entrypoint.s..." 54 seconds ago Up 55 seconds  0.0.0.0:5432->5432/tcp, [::]:5432->5432/tcp bank_inc

jonat@DESKTOP-FH1602E MINGW64 /d/DEV/prueba-nexos (main)
$
```

6.probar en el local puede usar la colección de postman o por swagger

<http://localhost:9000/swagger-ui/index.html>

Swagger. Powered by SMARTREAD

/v3/api-docs Explore

OpenAPI definition v0 **OAS 3.1**
/v3/api-docs

Servers
http://localhost:9000 - Generated server url

transaction-controller

- POST** /api/transaction/purchase
- POST** /api/transaction/anulation
- GET** /api/transaction/{transactionId}

card-controller

- POST** /api/card/enroll