

# ARQUITECTURA DE SOFTWARE

## Examen 3 Unidad

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

















## DOCKER COMPOSE

### Configuracion de Docker-Compose

C: > Users > luisc > OneDrive > Escritorio > EXAMEN 3U > docker-compose.yml

```
1  version: '2'
2
3  services:
4
5      kong-database:
6          image: postgres:latest
7          hostname: kong-database
8          container_name: kong-database
9          environment:
10             POSTGRES_USER: "kong"
11             POSTGRES_DB: "kong"
12             POSTGRES_PASSWORD: "kong"
13          ports:
14             - "5432:5432"
15
16      kong-bootstrap:
17          image: kong:3.1.1-alpine
18          hostname: kong
19          container_name: kong-bootstrap
20          depends_on:
21             - kong-database
22          environment:
23             KONG_DATABASE: "postgres"
24             KONG_PG_HOST: "kong-database"
25             KONG_PG_DATABASE: "kong"
26             KONG_PG_USER: "kong"
27             KONG_PG_PASSWORD: "kong"
28          command: "kong migrations bootstrap"
29          restart: "on-failure"
30
31      kong:
32          image: kong:3.1.1-alpine
33          hostname: kong
34          container_name: kong
35          restart: always
36          depends_on:
37             - kong-bootstrap
```

## DOCKER

| <input type="checkbox"/> | Name   | Image   | Status        | Port(s)  | Started        | Actions   |
|--------------------------|--|---|---------------|--|----------------|---|
| <input type="checkbox"/> |  <b>pruebaarqui</b>   | -   | Running (6/7) |  |                |    |
| <input type="checkbox"/> |  <b>kong</b><br>b579fab61fd4               | <a href="#">kong:3.1.1-alpine</a>             | Running       | <a href="#">8000:8000</a> <br><a href="#">8001:8001</a> <br><a href="#">8443:8443</a> <br><a href="#">8444:8444</a>  | 57 seconds ago |    |
| <input type="checkbox"/> |  <b>branches</b><br>798f40eebf6b           | <a href="#">pruebaarqui-branches</a>          | Running       |  | 60 seconds ago |    |
| <input type="checkbox"/> |  <b>products-accounts</b><br>67bd3d87da69  | <a href="#">pruebaarqui-products-accounts</a> | Running       |  | 60 seconds ago |    |
| <input type="checkbox"/> |  <b>kong-bootstrap</b><br>fe8b21a73d84     | <a href="#">kong:3.1.1-alpine</a>             | Exited        |  |                |    |
| <input type="checkbox"/> |  <b>kong-database</b><br>2f11b36f9d03      | <a href="#">postgres:latest</a>               | Running       | <a href="#">5432:5432</a>   | 1 minute ago   |    |
| <input type="checkbox"/> |  <b>mongo-banquito</b><br>6cab91113ac1     | <a href="#">mongo:latest</a>                  | Running       |  | 1 minute ago   |    |
| <input type="checkbox"/> |  <b>postgres-banquito</b><br>fb02ff470c8f  | <a href="#">postgres:latest</a>               | Running       |  | 1 minute ago   |    |

## POSTMAN

- Configuración KONG

My Workspace

NewImport

Collections

+Banquito

GET Config

New Collection

Environments

Mock Servers

Monitors

Flows

History

Banquito / Config

Save

Send

GETlocalhost:8001/config

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

noneform-datax-www-form-urlencodedrawbinaryGraphQLJSON

1

BodyCookiesHeaders (7)Test Results

Status: 400 Bad RequestTime: 144 msSize: 325 BSave Response

PrettyRawPreviewVisualizeJSON

123{"message": "this endpoint is only available when Kong is configured to not use a database"}

OnlineFind and ReplaceConsole

CookiesCapture requestsRunnerTrash

- Service Branch

The screenshot shows the Banquito API client interface. The left sidebar contains a 'My Workspace' section with 'Collections' and 'Environments'. The main area displays a 'POST' request to 'localhost:8001/services'. The request body is a JSON object with the following fields: 'name' (branches), 'url' (http://branches:8000/api/v1/branches), 'tls\_verify\_depth' (null), 'protocol' (http), 'tags' (null), 'ca\_certificates' (null), 'retries' (5), 'port' (8000), 'client\_certificate' (null), 'path' (/api/v1/branches), 'connect\_timeout' (60000), 'enabled' (true), 'read\_timeout' (60000), 'write\_timeout' (60000), 'id' (34342372-ec01-4155-b080-02c1ecab5c55), and 'created\_at' (1678423917). The response is a JSON object with the same fields, but 'id' is '34342372-ec01-4155-b080-02c1ecab5c55' and 'created\_at' is '1678423917'. The status is '201 Created'.

- Service Product Account

The screenshot shows the Banquito API client interface. The left sidebar contains a 'My Workspace' section with 'Collections' and 'Environments'. The main area displays a 'POST' request to 'localhost:8001/services'. The request body is a JSON object with the following fields: 'name' (products-accounts), 'url' (http://products-accounts:9000/api/v1/products-accounts), 'tls\_verify\_depth' (null), 'protocol' (http), 'tags' (null), 'ca\_certificates' (null), 'retries' (5), 'port' (9000), 'client\_certificate' (null), 'path' (/api/v1/products-accounts), 'connect\_timeout' (60000), 'enabled' (true), 'read\_timeout' (60000), 'write\_timeout' (60000), 'id' (34342372-ec01-4155-b080-02c1ecab5c55), and 'created\_at' (1678423917). The response is a JSON object with the same fields, but 'id' is '34342372-ec01-4155-b080-02c1ecab5c55' and 'created\_at' is '1678423917'. The status is '201 Created'.

- Service InterestRate

My Workspace New Import Banquito GET Config POST Post-Branches POST Post-Products/Accounts POST InterestRate + ... No Environment

Collections Banquito GET Config GET Post-Branches GET Post-Products/Accounts GET InterestRate > New Collection

Banquito / InterestRate Save Send

POST localhost:8001/services Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "name": "interest-rate",
3   "url": "http://products-accounts:9000/api/v1/interestrates"
4 }
```

Body Cookies Headers (7) Test Results Status: 201 Created Time: 30 ms Size: 632 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "updated_at": 1678424263,
3   "tls_verify": null,
4   "host": "products-accounts",
5   "name": "interest-rate",
6   "tls_verify_depth": null,
7   "protocol": "http",
8   "tags": null,
9   "ca_certificates": null,
10  "retries": 5,
11  "port": 9000,
12  "client_certificate": null,
13  "path": "/api/v1/interestrates",
14  "connect_timeout": 60000,
15  "enabled": true,
16  "read_timeout": 60000,
```

Online Find and Replace Console Cookies Capture requests Runner Trash

- Ruta Branches

Collections GET Config POST Post-Branches POST Post-Products/Accounts POST InterestRate POST New Request + ... No Environment

Banquito / New Request Save Send

POST localhost:8001/services/branches/routes Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "name": "branches-service-routes",
3   "paths": ["/branch"],
4   "strip_path": true
5 }
```

Body Cookies Headers (7) Test Results Status: 201 Created Time: 39 ms Size: 728 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "updated_at": 1678424565,
3   "paths": [
4     "/branch"
5   ],
6   "methods": null,
7   "name": "branches-service-routes",
8   "destinations": null,
9   "snis": null,
10  "protocols": [
11    "http",
12    "https"
13  ],
14  "path_handling": "v0",
15  "request_buffering": true,
16  "response_buffering": true,
17  "id": "a8dfce79-9ec8-44be-a548-8f78a6746f5e",
18  "name": "branches-service-routes"
```

Online Find and Replace Console Cookies Capture requests Runner Trash

- Ruta Product Account

Banquito / RutasProductsAccounts

POST localhost:8001/services/branches/routes

Params Authorization Headers (8) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "name": "products-accounts-service-routes",
3   "paths": ["/products-accounts"],
4   "strip_path": true
5 }
```

Body Cookies Headers (7) Test Results

Status: 201 Created Time: 50 ms Size: 748 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "updated_at": 1678424699,
3   "paths": [
4     "/products-accounts"
5   ],
6   "methods": null,
7   "name": "products-accounts-service-routes",
8   "destinations": null,
9   "snis": null,
10  "protocols": [
11    "http",
12    "https"
13  ],
14  "path_handling": "v0",
15  "request_buffering": true,
16  "response_buffering": true,
17  "id": "de9b93d6-12a6-4096-a168-41ffc76f1f82",
18  "..."
19 }
```

Online Find and Replace Console Cookies Capture requests Runner Trash

- Ruta InterestRate

My Workspace New Import

Banquito / RutasInterestRate

POST localhost:8001/services/interest-rate/routes

Params Authorization Headers (8) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "name": "interest-rate-service-routes",
3   "paths": ["/interest-rate"],
4   "strip_path": true
5 }
```

Body Cookies Headers (7) Test Results

Status: 201 Created Time: 21 ms Size: 740 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "updated_at": 1678424895,
3   "paths": [
4     "/interest-rate"
5   ],
6   "methods": null,
7   "name": "interest-rate-service-routes",
8   "destinations": null,
9   "snis": null,
10  "protocols": [
11    "http",
12    "https"
13  ],
14  "..."
15 }
```

Online Find and Replace Console Cookies Capture requests Runner Trash

## IMPLEMENTACION BRANCHES EN POSTMAN

- All Branches

Banquito / Branch / AllBranches

GET localhost:8000/branch **Send**

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

| KEY | VALUE | DESCRIPTION | ... | Bulk Edit |
|-----|-------|-------------|-----|-----------|
| Key | Value | Description |     |           |

Body Cookies Headers (7) Test Results Status: 200 OK Time: 4.27 s Size: 420 B Save Response

Pretty Raw Preview Visualize JSON

```
1 [
2   {
3     "id": "640ac68be24cdffb9e6c2867",
4     "code": "1",
5     "name": "Agencia Norte"
6   },
7   {
8     "id": "640ac68be24cdffb9e6c2868",
9     "code": "2",
10    "name": "Agencia Sur"
11  },
12  {
13    "id": "640ac68be24cdffb9e6c2869",
14    "code": "3",
15    "name": "Agencia Centro"
16  }
17 ]
```

- CreateBranch

Banquito / Branch / CreateBranch

POST localhost:8000/branch **Send**

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "code": "4",
3   "name": "Agencia Valles"
4 }
```

Body Cookies Headers (6) Test Results Status: 200 OK Time: 3.49 s Size: 174 B Save Response

Pretty Raw Preview Visualize Text

```
1
```

Banquito / Branch / AllBranches

GET localhost:8000/branch Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

| KEY | VALUE | DESCRIPTION | ... | Bulk Edit |
|-----|-------|-------------|-----|-----------|
| Key | Value | Description |     |           |

Body Cookies Headers (7) Test Results Status: 200 OK Time: 62 ms Size: 484 B Save Response

Pretty Raw Preview Visualize JSON

```
2 {
3   "id": "640ac68be24cdffb0e6c2867",
4   "code": "1",
5   "name": "Agencia Norte"
6 },
7 {
8   "id": "640ac68be24cdffb0e6c2868",
9   "code": "2",
10  "name": "Agencia Sur"
11 },
12 {
13   "id": "640ac68be24cdffb0e6c2869",
14   "code": "3",
15   "name": "Agencia Centro"
16 },
17 {
18   "id": "640ac68be24cdffb0e6c2870",
19   "code": "4",
20   "name": "Agencia Valles"
21 }
22 }
```

Cookies Capture requests Runner Trash

## IMPLEMENTACION PRODUCTACCOUNT EN POSTMAN

- CreateProductsAccounts

Banquito / ProductsAccounts / CreateProductsAccounts

POST localhost:8000/products-accounts Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON

Beautify



```
1 {
2   "id": "TEST1",
3   "name": "Cuenta Ahorros",
4   "description": "Cuenta de ahorros simple no maneja interes",
5   "minimumBalance": 200.00,
6   "payInterest": "N",
7   "acceptsChecks": "Y",
8   "state": "ACT"
9 }
```


Body Cookies Headers (6) Test Results Status: 200 OK Time: 3.38 s Size: 175 B Save Response

Pretty Raw Preview Visualize Text


1


- Get ProductAccountbyId

Banquito / ProductsAccounts / New Request  

GET 



localhost:8000/products-accounts/TEST1



Send 

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies 

Query Params



|  | KEY | VALUE | DESCRIPTION | ... | Bulk Edit |
|--|-----|-------|-------------|-----|-----------|
|  | Key | Value | Description |     |           |


Body Cookies Headers (6) Test Results  Status: 404 Not Found Time: 62 ms Size: 177 B Save Response 

Pretty Raw Preview Visualize Text  


1


- AllInterestRate

Banquito / InterestRate / AllInterestRate  

GET 



localhost:8000/interest-rate



Send 

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies 

Query Params

|  | KEY | VALUE | DESCRIPTION | ... | Bulk Edit |
|--|-----|-------|-------------|-----|-----------|
|  | Key | Value | Description |     |           |

Body Cookies Headers (7) Test Results  Status: 200 OK Time: 347 ms Size: 314 B Save Response 

Pretty Raw Preview Visualize JSON  

1

{

"id": 1,

"name": "PASIVA CORRIENTE",

"interestRate": 0.00,

"state": "ACT",

"start": "2023-03-10",

"end": null

}

10

- CreateInterestRate



Banquito / InterestRate / CreateInterestRate

POSTlocalhost:8000/interest-rate

Send

ParamsAuthorizationHeaders (8)BodyPre-request ScriptTestsSettings

noneform-datax-www-form-urlencodedrawbinaryGraphQLJSON

```
1 {
2   "name": "TARJETA DEBITO",
3   "interestRate": 0.02,
4   "state": "ACT",
5   "start": "2023-05-12",
6   "end": "2024-05-12"
7 }
```

BodyCookiesHeaders (6)Test Results

Status: 400 Bad RequestTime: 275 msSize: 180 BSave Response

PrettyRawPreviewVisualizeText

1

Banquito / InterestRate / AllInterestRate

GETlocalhost:8000/interest-rate

Send

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

Query Params

| KEY | VALUE | DESCRIPTION |
|-----|-------|-------------|
| Key | Value | Description |

BodyCookiesHeaders (7)Test Results

Status: 200 OKTime: 60 msSize: 420 BSave Response

PrettyRawPreviewVisualizeJSON

```
1 {
2   {
3     "id": 1,
4     "name": "PASIVA CORRIENTE",
5     "interestRate": 0.00,
6     "state": "ACT",
7     "start": "2023-03-10",
8     "end": null
9   },
10  {
11    "id": 2,
12    "name": "TARJETA DEBITO",
13    "interestRate": 0.02,
14    "state": "ACT",
15    "start": "2023-05-12",
16    "end": "2024-05-12"
17  }
```

## TEST

- BranchService Test

The screenshot shows an IDE with the `BranchServiceTest` class open. The class is a JUnit test for the `BranchService` class. It includes imports for `org.junit.jupiter.api.Test`, `org.junit.jupiter.api.BeforeEach`, `org.mockito.Mock`, `org.mockito.MockitoAnnotations`, and `org.springframework.http.HttpStatus`. The test class has a `private BranchService branchService;` field, a `private Logger logger;` field, and a `private BranchRepository branchRepositoryMock;` field. The `@BeforeEach` method `setUp()` initializes the mocks and creates a `BranchService` instance. The `@Test` method `testCreateThrowsException()` is the main test method.

The **DEBUG CONSOLE** shows the following log output:

```
23:38:42.941 [main] DEBUG com.banquito.core.branches.service.BranchService - Creating branch with the following info: Branch(id=null, code=B001, name=null)
23:38:42.973 [main] ERROR com.banquito.core.branches.service.BranchService - Error in branch creation: Test exception, with data: Branch(id=null, code=B001, name=null)
23:38:42.988 [main] INFO com.banquito.core.branches.service.BranchService - looking branch with code 01
23:38:42.990 [main] DEBUG com.banquito.core.branches.service.BranchService - Branch info for code 01 -> Branch(id=null, code=01, name=BranchTest)
23:38:43.014 [main] INFO com.banquito.core.branches.service.BranchService - Creating branch with code: 01
23:38:43.014 [main] DEBUG com.banquito.core.branches.service.BranchService - Creating branch with the following info: Branch(id=null, code=01, name=BranchTest)
23:38:43.025 [main] INFO com.banquito.core.branches.service.BranchService - Going to return all braches
23:38:43.044 [main] INFO com.banquito.core.branches.service.BranchService - Going to update branch with code: 222
23:38:43.044 [main] DEBUG com.banquito.core.branches.service.BranchService - Going to update branch with code: 222 with the following data Branch(id=null, code=222, name=branch2)
23:38:43.049 [main] DEBUG com.banquito.core.branches.service.BranchService - Branch with id: null and code: 222 has been updated with the following info Branch(id=null, code=222, name=branch2)
```

- BranchController Test

The screenshot shows an IDE with the `BranchControllerTest` class open. The class is a JUnit test for the `BranchController` class. It includes imports for `org.junit.jupiter.api.Test`, `org.junit.jupiter.api.BeforeEach`, `org.mockito.Mock`, `org.mockito.InjectMocks`, `org.mockito.MockitoAnnotations`, `org.springframework.http.HttpStatus`, `org.springframework.http.ResponseEntity`, `com.banquito.core.branches.controller.dto.BranchRQRS`, `com.banquito.core.branches.exception.CRUXException`, `com.banquito.core.branches.model.Branch`, and `com.banquito.core.branches.service.BranchService`. The test class has a `private BranchService branchService;` field and a `private BranchController branchController;` field. The `@BeforeEach` method `setUp()` initializes the mocks and creates a `BranchController` instance. The `@Test` method `testCreateValid()` is the main test method.

The **DEBUG CONSOLE** shows the following log output:

```
at org.junit.platform.launcher.core.DefaultLauncher.execute(DefaultLauncher.java:114)
at org.junit.platform.launcher.core.DefaultLauncher.execute(DefaultLauncher.java:95)
at org.junit.platform.launcher.core.DefaultLauncherSession$DelegatingLauncher.execute(DefaultLauncherSession.java:91)
at org.junit.platform.launcher.core.SessionPerRequestLauncher.execute(SessionPerRequestLauncher.java:60)
at org.eclipse.jdt.internal.junit5.runner.JUnit5TestReference.run(JUnit5TestReference.java:98)
at org.eclipse.jdt.internal.junit.runner.TestExecution.run(TestExecution.java:40)
at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:529)
at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:756)
at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.run(RemoteTestRunner.java:452)
at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.main(RemoteTestRunner.java:210)
23:44:11.696 [main] INFO com.banquito.core.branches.controller.BranchController - Going to return all branches
23:44:11.698 [main] INFO com.banquito.core.branches.controller.BranchController - Returning 2 branches
23:44:11.713 [main] INFO com.banquito.core.branches.controller.BranchController - Going to find branch by code: 01
23:44:11.721 [main] INFO com.banquito.core.branches.controller.BranchController - Going to find branch by code: 01
<200 OK,OK,BranchRQRS(id=idBranchTest, code=01, name=BranchTest),[]>
```

- ProductAccountService Test

The screenshot shows the IntelliJ IDEA IDE with the `ProductsAccountsServiceTest.java` file open. The left sidebar displays the test results for the `products-accounts` module, showing 5/5 tests passed (100%). The main editor shows the code for `ProductsAccountsServiceTest`, which includes a `setUp()` method and a `testListAllActives()` method. The `testListAllActives()` method creates a `ProductAccount` object and calls `productAccountService.listAllActives()`. The bottom panel shows the `DEBUG CONSOLE` with the following output:

```
01:13:18.588 [main] INFO com.banquito.core.productsaccounts.service.ProductAccountService - Creating Product Account with the following info: ProductAccount(id=1, name=account1, description=description1, minimumBalance=100.00, payInterest=Y, acceptsChecks=Y, state=ACT, creationDate=null)
01:13:18.652 [main] ERROR com.banquito.core.productsaccounts.service.ProductAccountService - Error in Product Account creation: Database connection error, with data: ProductAccount(id=1, name=account1, description=description1, minimumBalance=100.00, payInterest=Y, acceptsChecks=Y, state=ACT, creationDate=Fri Mar 10 01:13:18 ECT 2023)
01:13:18.760 [main] INFO com.banquito.core.productsaccounts.service.ProductAccountService - Obtaining all active Products Accounts records
01:13:18.768 [main] DEBUG com.banquito.core.productsaccounts.service.ProductAccountService - Returning 2 Products Accounts records
01:13:18.785 [main] INFO com.banquito.core.productsaccounts.service.ProductAccountService - Creating Product Account with the following info: ProductAccount(id=1, name=account1, description=description1, minimumBalance=100.00, payInterest=Y, acceptsChecks=Y, state=ACT, creationDate=null)
01:13:18.786 [main] DEBUG com.banquito.core.productsaccounts.service.ProductAccountService - Product Account created with the following info: ProductAccount(id=1, name=account1, description=description1, minimumBalance=100.00, payInterest=Y, acceptsChecks=Y, state=ACT, creationDate=Fri Mar 10 01:13:18 ECT 2023)
01:13:18.801 [main] INFO com.banquito.core.productsaccounts.service.ProductAccountService - Looking Product Account by id: 1
01:13:18.811 [main] INFO com.banquito.core.productsaccounts.service.ProductAccountService - Looking Product Account by id: 1
```

- InterestRateService Test

The screenshot shows the IntelliJ IDEA IDE with the `InterestRateServiceTest.java` file open. The left sidebar displays the test results for the `products-accounts` module, showing 9/9 tests passed (100%). The main editor shows the code for `InterestRateServiceTest`, which includes a `setUp()` method and a `testListAllActives()` method. The `testListAllActives()` method creates an `InterestRate` object and calls `interestRateService.listAllActives()`. The bottom panel shows the `DEBUG CONSOLE` with the following output:

```
01:14:22.389 [main] INFO com.banquito.core.productsaccounts.service.InterestRateService - Creating interest rate with the following info: InterestRate(id=null, name=test, interestRate=0.01, state=ACT, start=Fri Mar 10 01:14:22 ECT 2023, end=null)
01:14:22.392 [main] DEBUG com.banquito.core.productsaccounts.service.InterestRateService - Interest rate created with the following info: InterestRate(id=null, name=test, interestRate=0.01, state=ACT, start=Fri Mar 10 01:14:22 ECT 2023, end=null)
01:14:22.404 [main] INFO com.banquito.core.productsaccounts.service.InterestRateService - Looking interest rate by id: 1
01:14:22.414 [main] INFO com.banquito.core.productsaccounts.service.InterestRateService - Going to inactivate Interest Rate with id: 1
01:14:22.415 [main] DEBUG com.banquito.core.productsaccounts.service.InterestRateService - Interest Rate with id: 1 has been inactivated with the following info InterestRate(id=1, name=rate1, interestRate=0.01, state=INA, start=Fri Mar 10 01:14:22 ECT 2023, end=Fri Mar 10 01:14:22 ECT 2023)
01:14:22.426 [main] INFO com.banquito.core.productsaccounts.service.InterestRateService - Looking interest rate by id: 1
01:14:22.434 [main] INFO com.banquito.core.productsaccounts.service.InterestRateService - Going to update Interest Rate with id: 1
01:14:22.434 [main] DEBUG com.banquito.core.productsaccounts.service.InterestRateService - Going to update Interest Rate with id: 1 with the following data InterestRate(id=null, name=test, interestRate=0.02, state=ACT, start=Fri Mar 10 01:14:22 ECT 2023, end=null)
01:14:22.436 [main] DEBUG com.banquito.core.productsaccounts.service.InterestRateService - Interest Rate with id: 1 has been updated with the following info InterestRate(id=1, name=test, interestRate=0.02, state=ACT, start=Fri Mar 10 01:14:22 ECT 2023, end=null)
```



## COVERAGE

### Branches

branches > com.banquito.core.branches.service > BranchService

#### BranchService

| Element                           | Missed Instructions    | Cov.  | Missed Branches        | Cov.  | Missed | Cxty | Missed | Lines | Missed | Methods |
|-----------------------------------|------------------------|-------|------------------------|-------|--------|------|--------|-------|--------|---------|
| • update(String,Branch)           | <div><div></div></div> | 64 %  | <div><div></div></div> | 50 %  | 1      | 2    | 4      | 14    | 0      | 1       |
| • create(Branch)                  | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 8     | 0      | 1       |
| • lookById(String)                | <div><div></div></div> | 100 % | <div><div></div></div> | 100 % | 0      | 2    | 0      | 5     | 0      | 1       |
| • lookByCode(String)              | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 4     | 0      | 1       |
| • getAll()                        | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 2     | 0      | 1       |
| • BranchService(BranchRepository) | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 3     | 0      | 1       |
| • static {...}                    | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 1     | 0      | 1       |
| Total                             | 25 of 161              | 84 %  | 1 of 4                 | 75 %  | 1      | 9    | 4      | 37    | 0      | 7       |

#### BranchController

| Element                           | Missed Instructions    | Cov.  | Missed Branches        | Cov.  | Missed | Cxty | Missed | Lines | Missed | Methods |
|-----------------------------------|------------------------|-------|------------------------|-------|--------|------|--------|-------|--------|---------|
| • update(String,BranchRQRS)       | <div><div></div></div> | 50 %  |                        | n/a   | 0      | 1    | 3      | 5     | 0      | 1       |
| • create(BranchRQRS)              | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 6     | 0      | 1       |
| • obtainByCode(String)            | <div><div></div></div> | 100 % | <div><div></div></div> | 100 % | 0      | 2    | 0      | 5     | 0      | 1       |
| • obtainAll()                     | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 4     | 0      | 1       |
| • BranchController(BranchService) | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 3     | 0      | 1       |
| • static {...}                    | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 1     | 0      | 1       |
| Total                             | 13 of 93               | 86 %  | 0 of 2                 | 100 % | 0      | 7    | 3      | 24    | 0      | 6       |

### ProductAccount

products-accounts > com.banquito.core.productsaccounts.service > ProductAccountService

#### ProductAccountService

| Element   | Missed Instructions    | Cov.  | Missed Branches        | Cov.  | Missed | Cxty | Missed | Lines | Missed | Methods |
|---|------------------------|-------|------------------------|-------|--------|------|--------|-------|--------|---------|
| • create(ProductAccount)                          | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 9     | 0      | 1       |
| • obtainById(String)                              | <div><div></div></div> | 100 % | <div><div></div></div> | 100 % | 0      | 2    | 0      | 5     | 0      | 1       |
| • listAllActives()                                | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 4     | 0      | 1       |
| • ProductAccountService(ProductAccountRepository) | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 3     | 0      | 1       |
| • static {...}                                    | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 1     | 0      | 1       |
| Total   | 0 of 87                | 100 % | 0 of 2                 | 100 % | 0      | 6    | 0      | 22    | 0      | 5       |

#### InterestRateService

| Element                                       | Missed Instructions    | Cov.  | Missed Branches        | Cov.  | Missed | Cxty | Missed | Lines | Missed | Methods |
|---|------------------------|-------|------------------------|-------|--------|------|--------|-------|--------|---------|
| • inactivate(Integer)                         | <div><div></div></div> | 59 %  | <div><div></div></div> | 50 %  | 1      | 2    | 4      | 14    | 0      | 1       |
| • update(Integer,InterestRate)                | <div><div></div></div> | 100 % | <div><div></div></div> | 100 % | 0      | 2    | 0      | 15    | 0      | 1       |
| • create(InterestRate)                        | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 8     | 0      | 1       |
| • obtainById(Integer)                         | <div><div></div></div> | 100 % | <div><div></div></div> | 100 % | 0      | 2    | 0      | 5     | 0      | 1       |
| • listAllActives()                            | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 4     | 0      | 1       |
| • InterestRateService(InterestRateRepository) | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 3     | 0      | 1       |
| • static {...}                                | <div><div></div></div> | 100 % |                        | n/a   | 0      | 1    | 0      | 1     | 0      | 1       |
| Total   | 25 of 209              | 88 %  | 1 of 6                 | 83 %  | 1      | 10   | 4      | 50    | 0      | 7       |