

Payconiq Assignment

1. Build Project

./gradlew clean build

```
Terminal Shell Edit View Window Help
payconiq -- zsh -- 166x42

srikanth@Srikanths-MBP payconiq % ./gradlew clean build
Starting a Gradle Daemon (subsequent builds will be faster)

> Task :test
2023-01-28T20:45:28.666+05:30 INFO 1110 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence unit 'default'
2023-01-28T20:45:28.668+05:30 INFO 1110 --- [ionShutdownHook] .SchemaDropperImpl$DelayedDropActionImpl : HHH000477: Starting delayed evictData of schema as part of SessionFactory shut-down'
2023-01-28T20:45:28.668+05:30 WARN 1110 --- [ionShutdownHook] o.h.engine.jdbc.spi.SqlExceptionHelper : SQL Error: 98121, SQLState: 98121
2023-01-28T20:45:28.668+05:30 ERROR 1110 --- [ionShutdownHook] o.h.engine.jdbc.spi.SqlExceptionHelper : Database is already closed (to disable automatic closing at VM shutdown, add ";DB_CLOSE_ON_EXIT=FALSE" to the db URL) [98121-214]
2023-01-28T20:45:28.669+05:30 WARN 1110 --- [ionShutdownHook] o.h.engine.jdbc.spi.SqlExceptionHelper : SQL Error: 98121, SQLState: 98121
2023-01-28T20:45:28.669+05:30 ERROR 1110 --- [ionShutdownHook] o.h.engine.jdbc.spi.SqlExceptionHelper : Database is already closed (to disable automatic closing at VM shutdown, add ";DB_CLOSE_ON_EXIT=FALSE" to the db URL) [98121-214]
2023-01-28T20:45:28.669+05:30 WARN 1110 --- [ionShutdownHook] o.s.b.f.support.DisposableBeanAdapter : Invocation of destroy method failed on bean with name 'entityManagerFactory': org.hibernate.exception.JDBCConnectionException: Unable to release JDBC Connection used for DDL execution
2023-01-28T20:45:28.669+05:30 INFO 1110 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown initiated...
2023-01-28T20:45:28.671+05:30 INFO 1110 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown completed.

BUILD SUCCESSFUL in 14s
8 actionable tasks: 8 executed
srikanth@Srikanths-MBP payconiq %
```

2. Run Unit Test cases

./gradlew clean test --info

```
Terminal Shell Edit View Window Help
payconiq -- zsh -- 166x42

ModelAndView:
  View name = null
  View = null
  Model = null

FlashMap:
  Attributes = null

MockHttpServletResponse:
  Status = 404
  Error message = null
  Headers = [Vary:"Origin", "Access-Control-Request-Method", "Access-Control-Request-Headers", Content-Type:"text/plain;charset=UTF-8", Content-Length:"31"]
  Content type = text/plain;charset=UTF-8
  Body = Could not find stock with Id: 2
  Forwarded URL = null
  Redirected URL = null
  Cookies = []

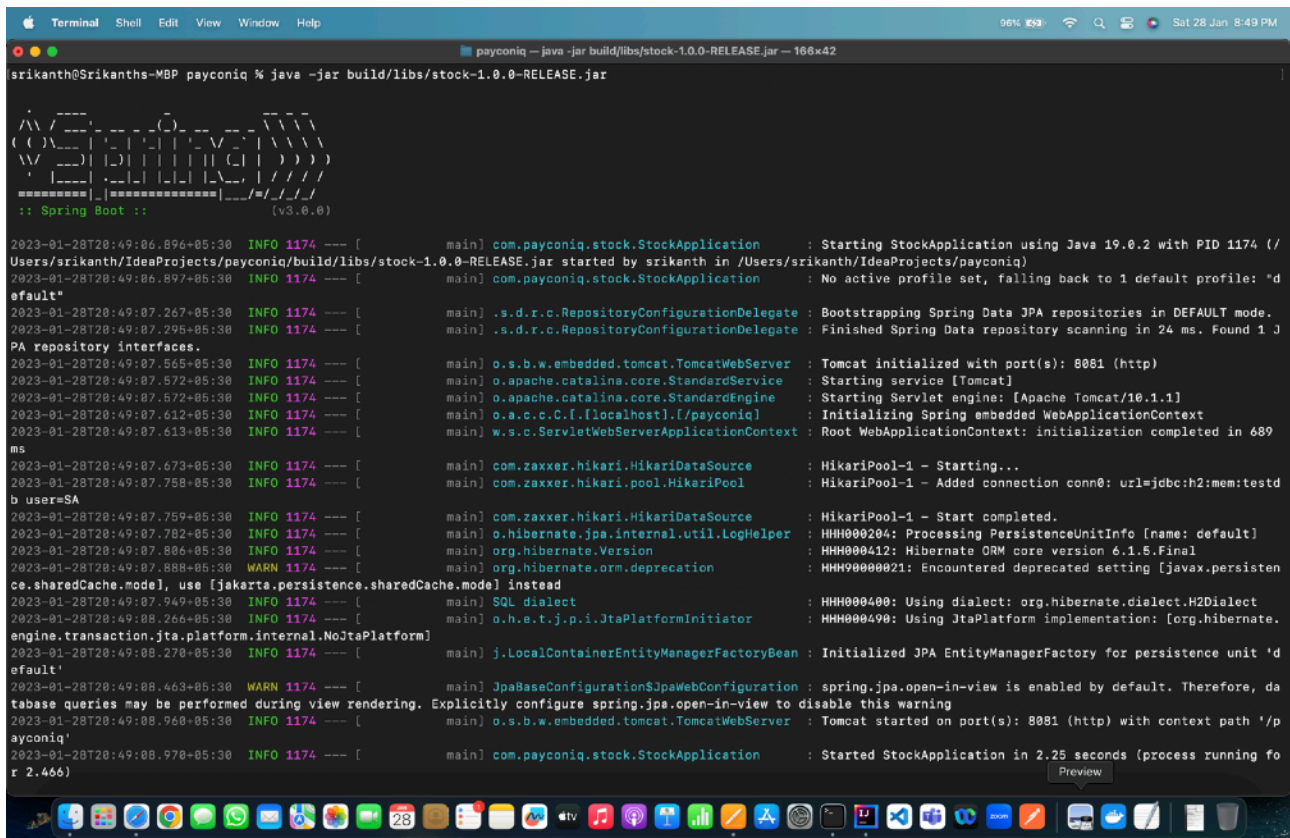
Gradle Test Executor 4 finished executing tests.

> Task :test
2023-01-28T20:54:00.498+05:30 INFO 1250 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence unit 'default'
2023-01-28T20:54:00.498+05:30 INFO 1250 --- [ionShutdownHook] .SchemaDropperImpl$DelayedDropActionImpl : HHH000477: Starting delayed evictData of schema as part of SessionFactory shut-down'
2023-01-28T20:54:00.500+05:30 WARN 1250 --- [ionShutdownHook] o.h.engine.jdbc.spi.SqlExceptionHelper : SQL Error: 98121, SQLState: 98121
2023-01-28T20:54:00.501+05:30 ERROR 1250 --- [ionShutdownHook] o.h.engine.jdbc.spi.SqlExceptionHelper : Database is already closed (to disable automatic closing at VM shutdown, add ";DB_CLOSE_ON_EXIT=FALSE" to the db URL) [98121-214]
2023-01-28T20:54:00.501+05:30 WARN 1250 --- [ionShutdownHook] o.h.engine.jdbc.spi.SqlExceptionHelper : SQL Error: 98121, SQLState: 98121
2023-01-28T20:54:00.501+05:30 ERROR 1250 --- [ionShutdownHook] o.h.engine.jdbc.spi.SqlExceptionHelper : Database is already closed (to disable automatic closing at VM shutdown, add ";DB_CLOSE_ON_EXIT=FALSE" to the db URL) [98121-214]
2023-01-28T20:54:00.501+05:30 WARN 1250 --- [ionShutdownHook] o.s.b.f.support.DisposableBeanAdapter : Invocation of destroy method failed on bean with name 'entityManagerFactory': org.hibernate.exception.JDBCConnectionException: Unable to release JDBC Connection used for DDL execution
2023-01-28T20:54:00.501+05:30 INFO 1250 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown initiated...
2023-01-28T20:54:00.502+05:30 INFO 1250 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown completed.
Finished generating test XML results (0.001 secs) into: /Users/srikanth/IdeaProjects/payconiq/build/test-results/test
Generating HTML test report...
Finished generating test html results (0.002 secs) into: /Users/srikanth/IdeaProjects/payconiq/build/reports/tests/test

BUILD SUCCESSFUL in 3s
5 actionable tasks: 5 executed
```

3. Deploy/Start the application:

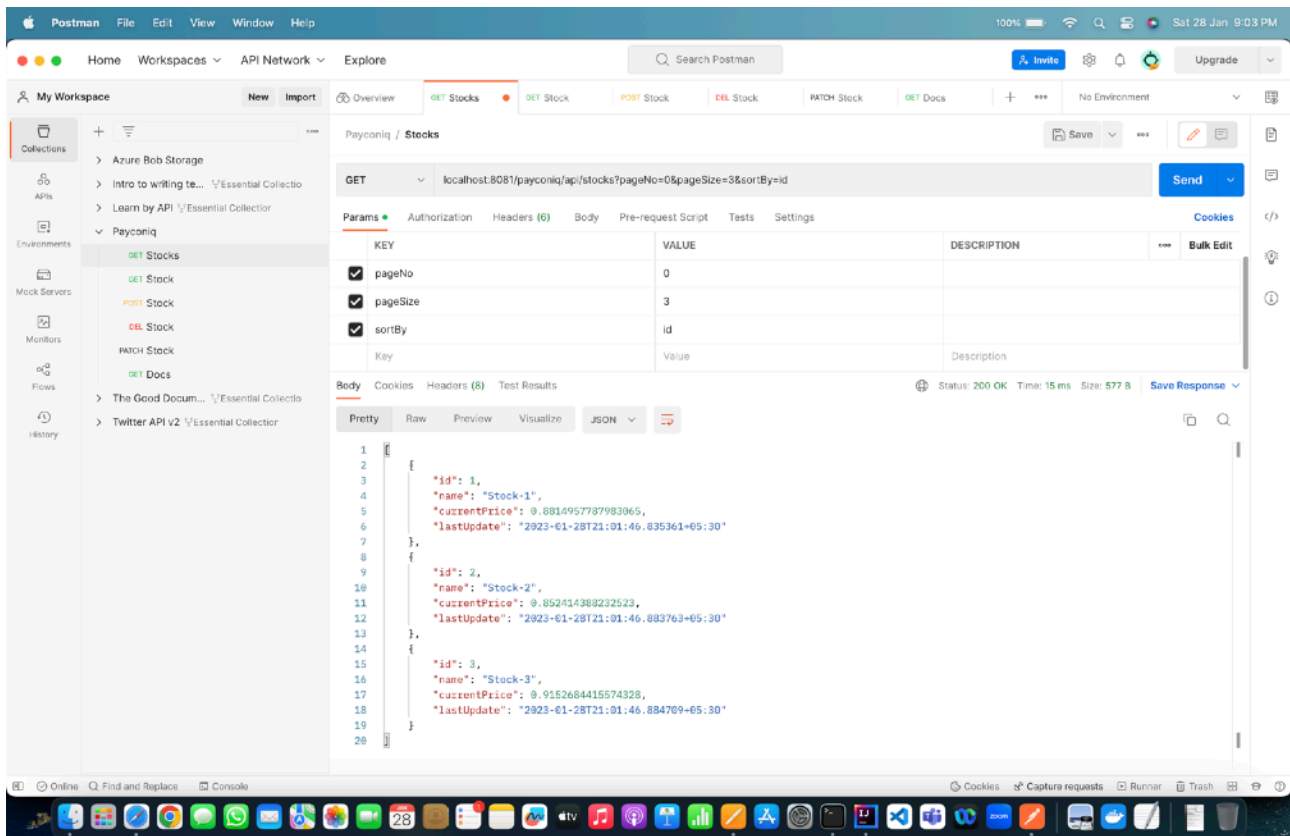
java -jar build/libs/stock-1.0.0-RELEASE.jar



```
erikanth@Srikanths-MBP payconiq % java -jar build/libs/stock-1.0.0-RELEASE.jar

:: Spring Boot ::
2023-01-28T20:49:06.896+05:30 INFO 1174 --- [main] com.payconiq.stock.StockApplication : Starting StockApplication using Java 19.0.2 with PID 1174 (/Users/srikanth/IdeaProjects/payconiq/build/libs/stock-1.0.0-RELEASE.jar started by srikanth in /Users/srikanth/IdeaProjects/payconiq)
2023-01-28T20:49:06.897+05:30 INFO 1174 --- [main] com.payconiq.stock.StockApplication : No active profile set, falling back to 1 default profile: "default"
2023-01-28T20:49:07.267+05:30 INFO 1174 --- [main] o.s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2023-01-28T20:49:07.295+05:30 INFO 1174 --- [main] o.s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 24 ms. Found 1 JPA repository interfaces.
2023-01-28T20:49:07.565+05:30 INFO 1174 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8081 (http)
2023-01-28T20:49:07.572+05:30 INFO 1174 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2023-01-28T20:49:07.572+05:30 INFO 1174 --- [main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.1]
2023-01-28T20:49:07.612+05:30 INFO 1174 --- [main] o.a.c.c.C.[.[localhost].[/payconiq] : Initializing Spring embedded WebApplicationContext
2023-01-28T20:49:07.613+05:30 INFO 1174 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 689 ms
2023-01-28T20:49:07.673+05:30 INFO 1174 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2023-01-28T20:49:07.758+05:30 INFO 1174 --- [main] com.zaxxer.hikari.pool.HikariPool : HikariPool-1 - Added connection conn0: url=jdbc:h2:mem:testdb;user=SA
2023-01-28T20:49:07.769+05:30 INFO 1174 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.
2023-01-28T20:49:07.782+05:30 INFO 1174 --- [main] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo [name: default]
2023-01-28T20:49:07.806+05:30 INFO 1174 --- [main] org.hibernate.Version : HHH000412: Hibernate ORM core version 6.1.5.Final
2023-01-28T20:49:07.888+05:30 WARN 1174 --- [main] org.hibernate.orm.deprecation : HHH0000021: Encountered deprecated setting [javax.persistence.sharedCache.mode], use [jakarta.persistence.sharedCache.mode] instead
2023-01-28T20:49:07.949+05:30 INFO 1174 --- [main] SQL dialect : HHH000400: Using dialect: org.hibernate.dialect.H2Dialect
2023-01-28T20:49:08.266+05:30 INFO 1174 --- [main] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
2023-01-28T20:49:08.278+05:30 INFO 1174 --- [main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2023-01-28T20:49:08.463+05:30 WARN 1174 --- [main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed during view rendering. Explicitly configure spring.jpa.open-in-view to disable this warning
2023-01-28T20:49:08.968+05:30 INFO 1174 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8081 (http) with context path '/payconiq'
2023-01-28T20:49:08.978+05:30 INFO 1174 --- [main] com.payconiq.stock.StockApplication : Started StockApplication in 2.25 seconds (process running for 2.466)
```

4. GET /api/stocks (get a list of stocks)



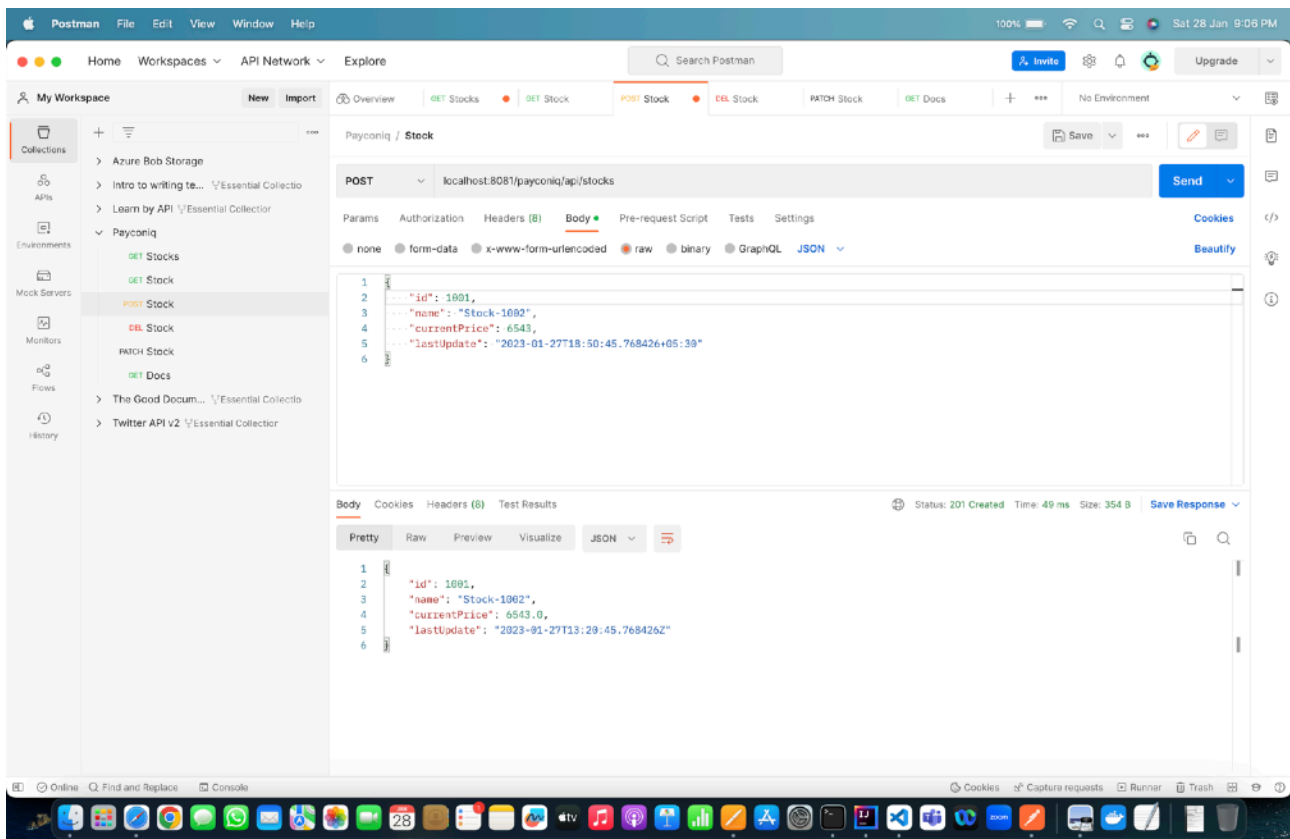
```
GET localhost:8081/payconiq/api/stocks?pageNo=0&pageSize=3&sortBy=id

Params
KEY VALUE DESCRIPTION
pageNo 0
pageSize 3
sortBy Id
Key Value Description

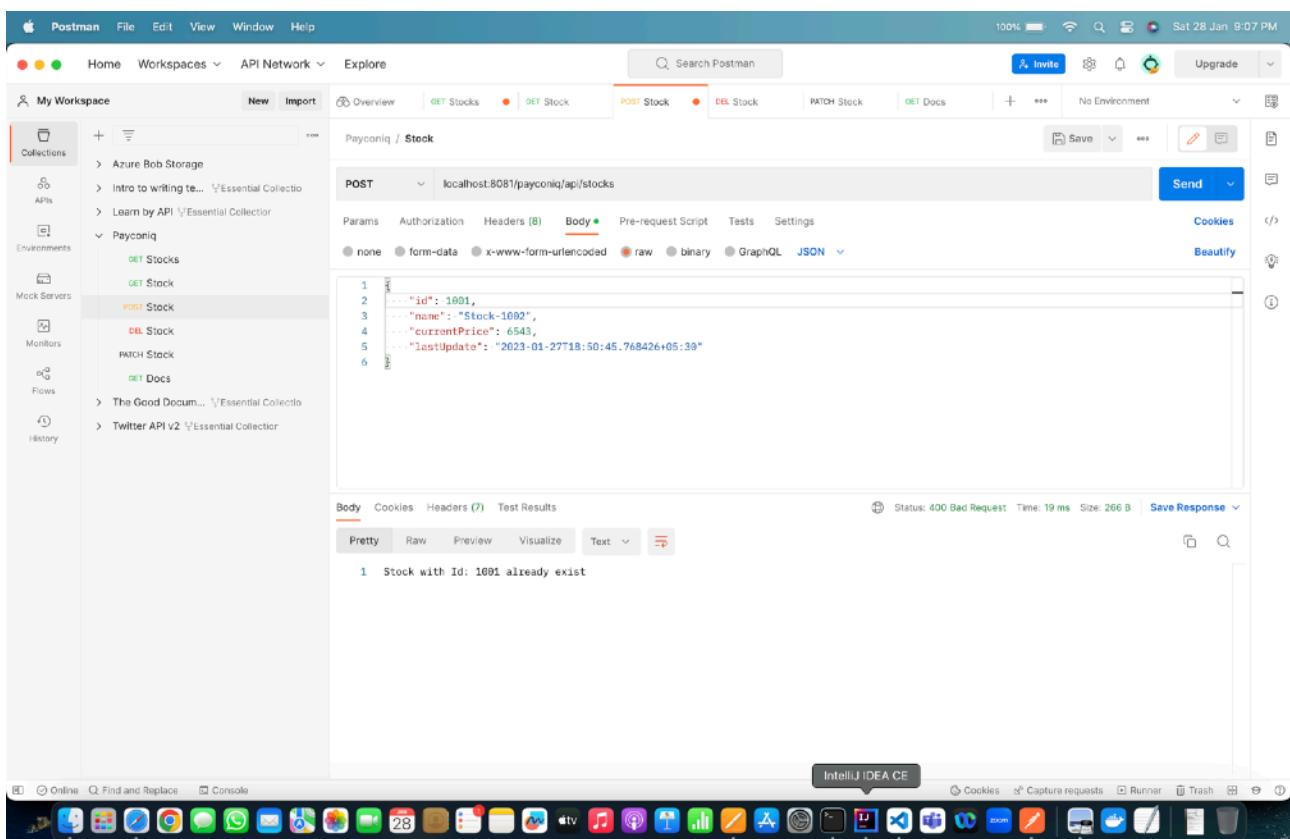
Body
Pretty Raw Preview Visualize JSON
[{"id": 1, "name": "Stock-1", "currentPrice": 0.8814957787983065, "lastUpdate": "2023-01-28T21:01:46.835361+05:30"}, {"id": 2, "name": "Stock-2", "currentPrice": 0.852434388232523, "lastUpdate": "2023-01-28T21:01:46.883763+05:30"}, {"id": 3, "name": "Stock-3", "currentPrice": 0.9152684415574328, "lastUpdate": "2023-01-28T21:01:46.884769+05:30"}]
```

5. POST /api/stocks (create a stock)

Scenario1: New Id



Scenario2: Duplicate Id



6. GET /api/stocks/1 (get one stock from the list)

The screenshot shows the Postman interface with a workspace named "Payconiq / Stock". The request is a GET method to the URL "localhost:8081/payconiq/api/stocks/55". The response status is 200 OK, and the body is displayed in JSON format:

```
1 {
2   "id": 55,
3   "name": "Stock-55",
4   "currentPrice": 0.16877823737288544,
5   "lastUpdate": "2023-01-26T21:01:46.91604+05:30"
6 }
```

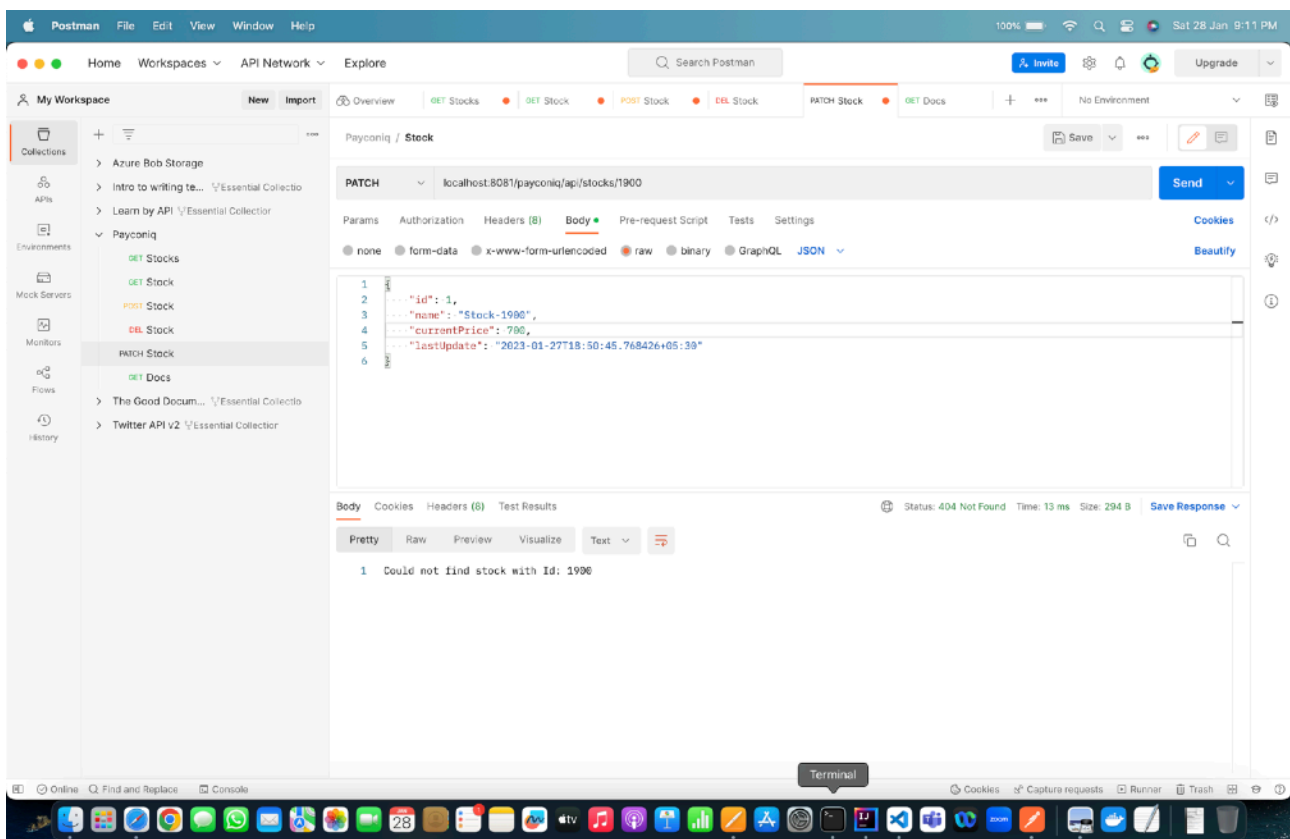
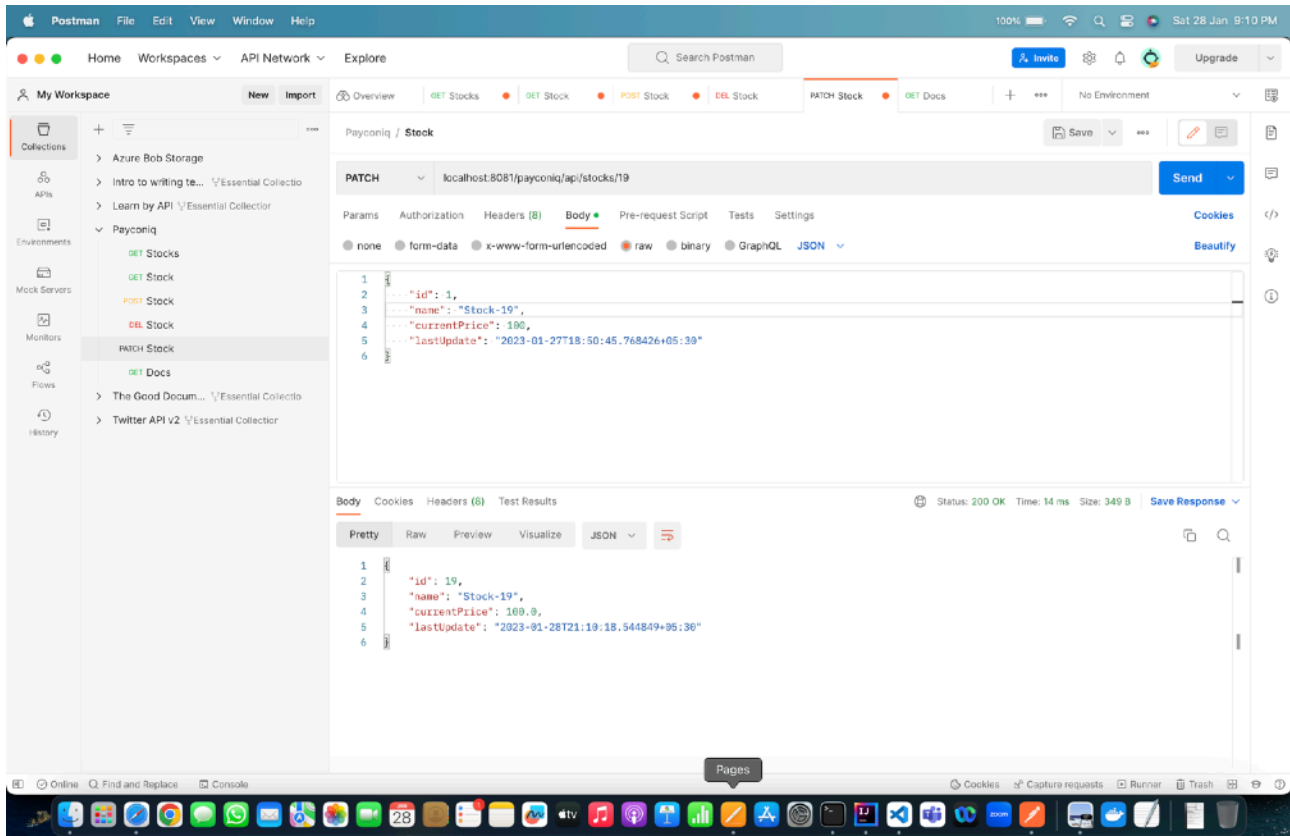
The left sidebar shows the "My Workspace" section with a tree view containing "Collections", "Environments", "Mock Servers", "Monitors", "Flows", and "History". The "Collections" section is expanded, showing "Payconiq" and its sub-collections: "GET Stocks", "GET Stock", "POST Stock", "DELETE Stock", "PATCH Stock", and "GET Docs".

The screenshot shows the Postman interface with the same workspace. The request is a GET method to the URL "localhost:8081/payconiq/api/stocks/5500". The response status is 404 Not Found, and the body is displayed in text format:

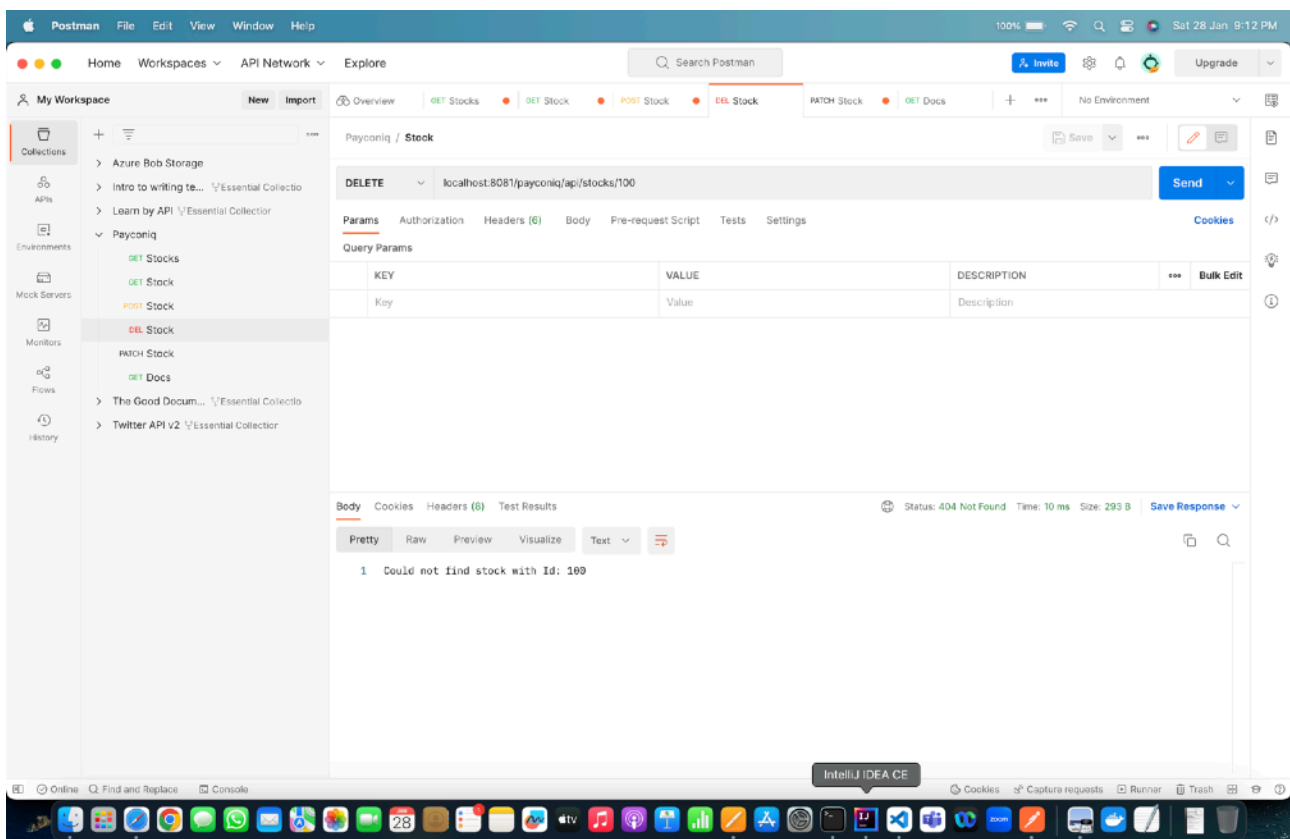
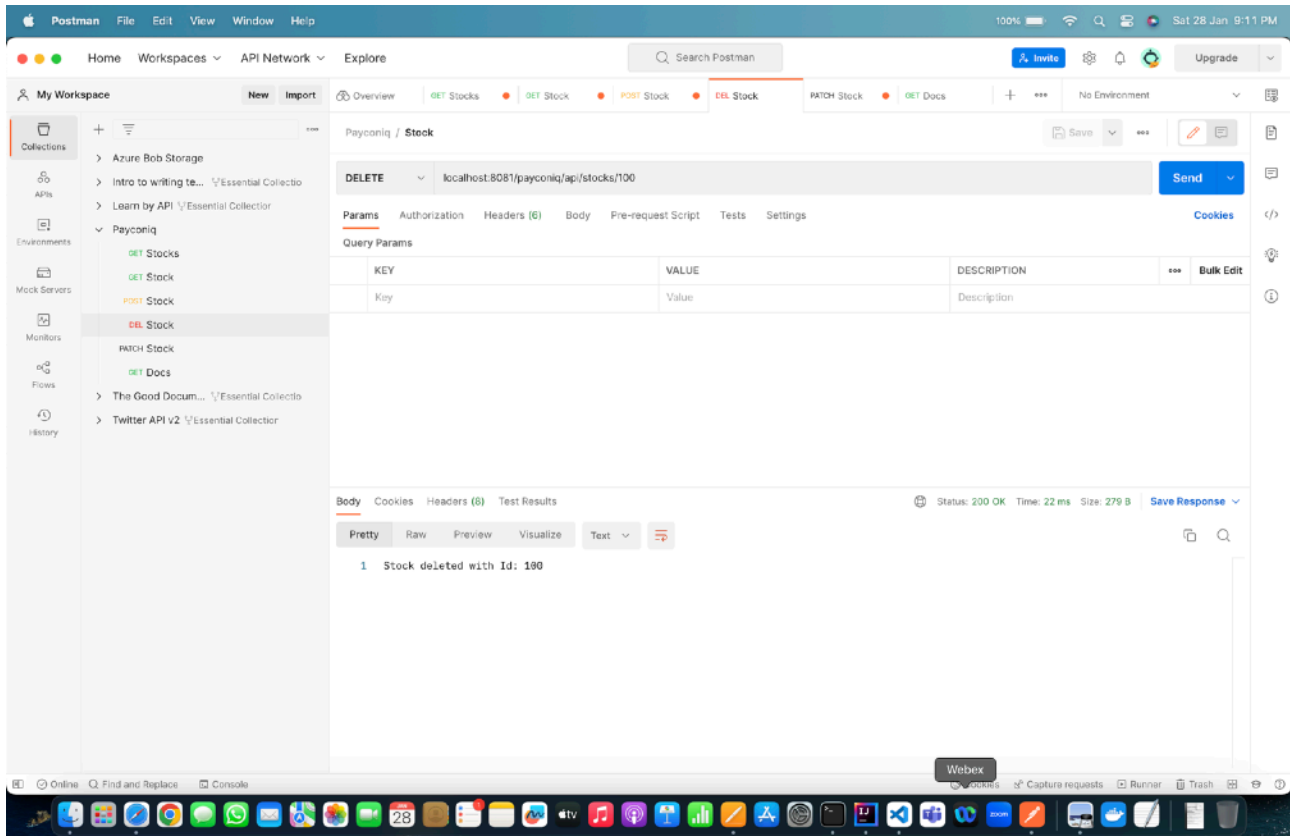
```
1 Could not find stock with Id: 5500
```

The left sidebar is identical to the previous screenshot. The "My Workspace" section shows the same tree view. The "Collections" section is expanded, showing "Payconiq" and its sub-collections: "GET Stocks", "GET Stock", "POST Stock", "DELETE Stock", "PATCH Stock", and "GET Docs".

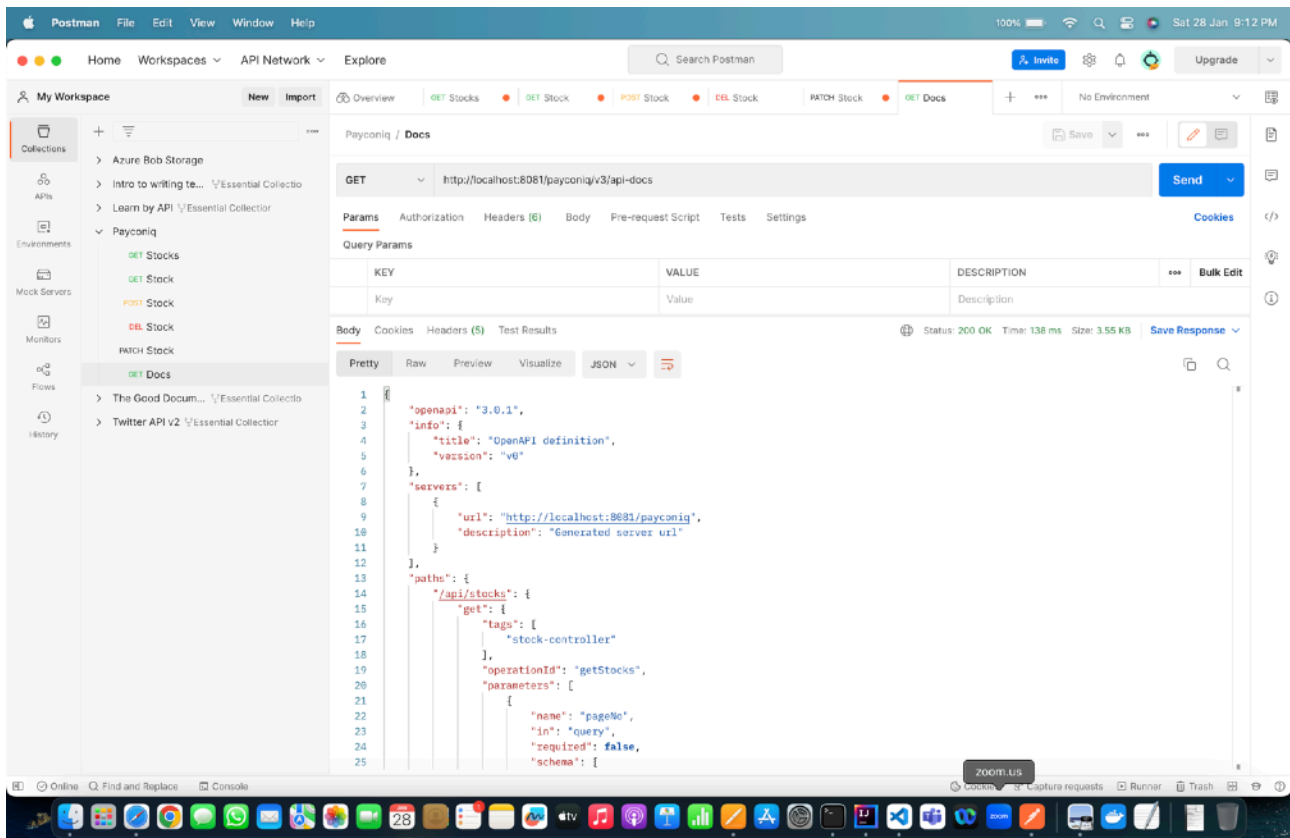
7. PATCH /api/stocks/1 (update the price of a single stock)



8. DELETE/api/stocks/1 (delete a single stock)



9. API documentation



10. Swagger UI

