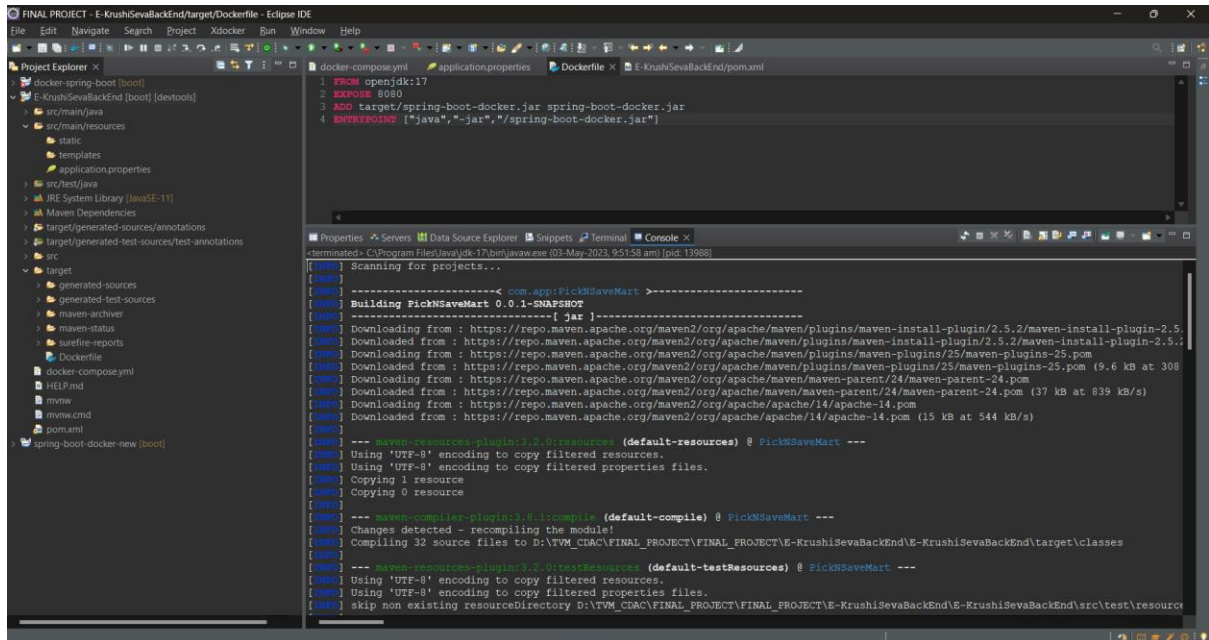


Name: Madhavi Suratkar

Topic : Docker Compose Implementation

Date: 02-05-2023

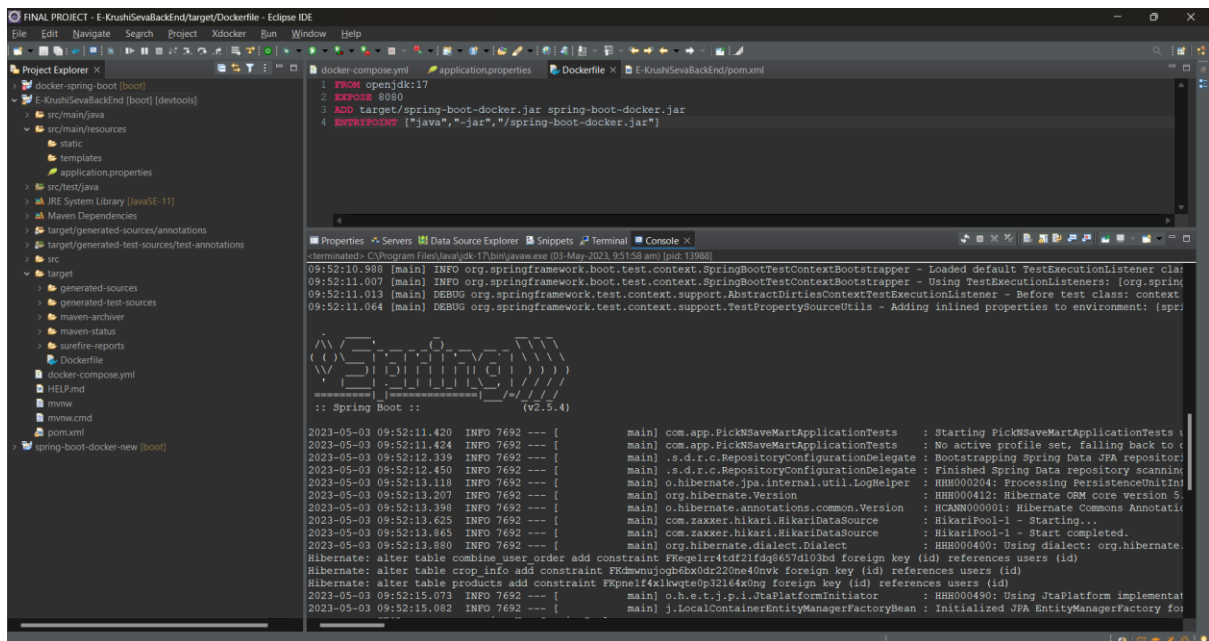
## Dockerfile :



The screenshot shows the Eclipse IDE interface with the following components:

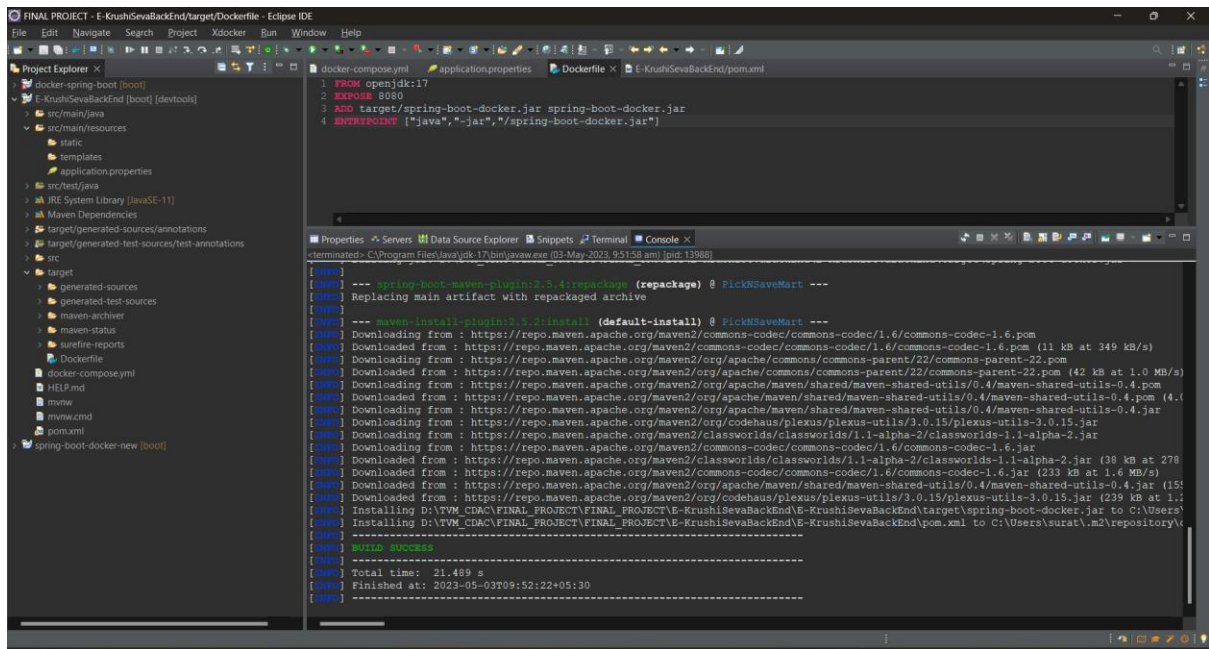
- Project Explorer:** Displays the project structure for 'FINAL PROJECT - E-KrushSevaBackend'. It includes folders for 'src/main/java', 'src/main/resources', 'src/test/java', 'target', and 'spring-boot-docker-new'. The 'Dockerfile' file is highlighted under the 'spring-boot-docker-new' folder.
- Dockerfile:** The file content is as follows:

```
1 FROM openjdk:17
2 EXPOSE 8080
3 ADD target/spring-boot-docker.jar spring-boot-docker.jar
4 ENTRYPOINT ["java","-jar","/spring-boot-docker.jar"]
```
- Console:** Shows the output of the Maven build process. It includes messages for scanning projects, building 'PickNSaveMart 0.0.1-SNAPSHOT', downloading dependencies from Maven Central, and compiling the application. The build is successful, and the output files are listed.

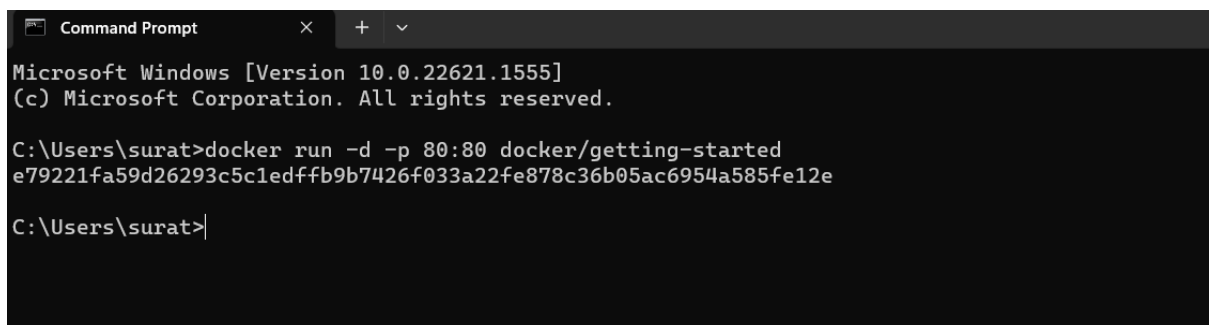
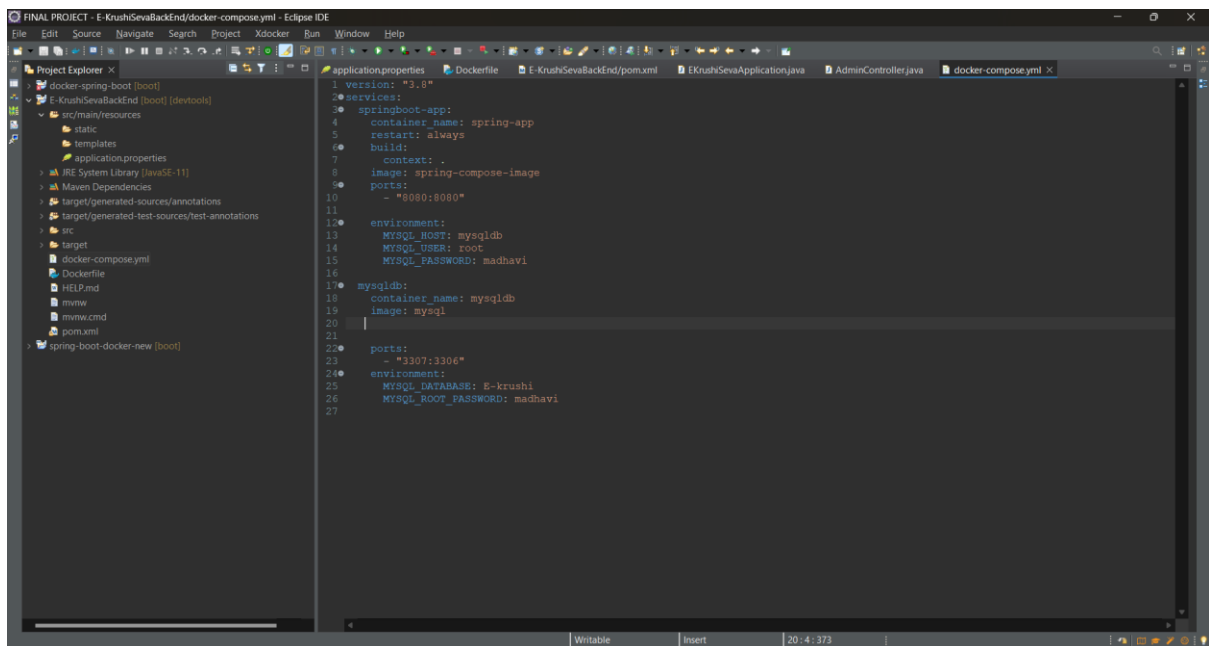


The screenshot shows the Eclipse IDE interface with the following components:

- Project Explorer:** Similar to the previous screenshot, it shows the project structure. The 'Dockerfile' file is highlighted.
- Dockerfile:** The file content is the same as in the previous screenshot.
- Console:** Shows the output of the application running in a Docker container. It includes messages for starting the application, loading the default test execution listener, and initializing the JPA EntityManagerFactory. The application is running successfully, and the output files are listed.



## Docker-compose.yml



```
D:\TVM_CDAC\FINAL_PROJECT\FINAL_PROJECT\E-KrushSevaBackend\E-KrushSevaBackend>docker build -t spring-boot-docker.jar .
[+] Building 0.0s (0/1)
[+] Building 1.9s (7/7) FINISHED
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 196B 0.0s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/openjdk:17 0.9s
=> CACHED [1/2] FROM docker.io/library/openjdk:17@sha256:528707081fdb9562eb819128a9f85ae7fe000e2fbaef9f87662e7b 0.0s
=> [internal] load build context 0.5s
=> => transferring context: 41.32MB 0.5s
=> [2/2] ADD target/surefire-reports/spring-boot-docker.jar spring-boot-docker.jar 0.2s
=> exporting to image 0.2s
=> => exporting layers 0.2s
=> => writing image sha256:beea789dcf49ae75a0617224ef49b54df5ad004e0b9cecbcd0cb928cc2f8c86a 0.0s
=> => naming to docker.io/library/spring-boot-docker.jar 0.0s
```

```
D:\TVM_CDAC\FINAL_PROJECT\FINAL_PROJECT\E-KrushSevaBackend\E-KrushSevaBackend>docker images
REPOSITORY          IMAGE ID      CREATED      SIZE      TAG
spring-boot-docker.jar beea789dcf49 47 seconds ago 513MB      latest
spring-compose-image ccbce1a6d9c8 2 hours ago  513MB      latest
docker-compose-appservice 66de404c3a9c 4 hours ago  513MB      latest
```

```
C:\Windows\System32\cmd.exe
D:\TVM_CDAC\FINAL_PROJECT\FINAL_PROJECT\E-KrushSevaBackend\E-KrushSevaBackend>docker run -p 9090:8080 spring-boot-docker.jar

  ____ _
 / ___| | | |
 \___ \| |_| |
  ___) |  __/ | | |
 |_____|_| |_| |
:: Spring Boot :: (v2.5.4)

2023-05-03 04:40:47.965 INFO 1 --- [main] com.app.EKrushSevaApplication : Starting EKrushSevaApplication v0.0.1-SNAPSHOT using Java 17.0.2 on 77d1
74dce6c6 with PID 1 (/spring-boot-docker.jar started by root in /)
2023-05-03 04:40:47.967 INFO 1 --- [main] com.app.EKrushSevaApplication : No active profile set, falling back to default profiles: default
2023-05-03 04:40:48.648 INFO 1 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2023-05-03 04:40:48.717 INFO 1 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 54 ms. Found 4 JPA repository
interfaces.
2023-05-03 04:40:49.261 INFO 1 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2023-05-03 04:40:49.273 INFO 1 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2023-05-03 04:40:49.273 INFO 1 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.52]
2023-05-03 04:40:49.333 INFO 1 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2023-05-03 04:40:49.333 INFO 1 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 1308 ms
2023-05-03 04:40:49.583 INFO 1 --- [main] o.hibernate.jpa.internal.util.LogHelper : HH0000204: Processing PersistenceUnitInfo [name: default]
2023-05-03 04:40:49.562 INFO 1 --- [main] org.hibernate.Version : HH0000412: Hibernate ORM core version 5.4.32.Final
2023-05-03 04:40:49.683 INFO 1 --- [main] o.hibernate.annotations.common.Version : HCANN000001: Hibernate Commons Annotations {5.1.2.Final}
2023-05-03 04:40:49.810 INFO 1 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2023-05-03 04:40:50.944 ERROR 1 --- [main] com.zaxxer.hikari.pool.HikariPool : HikariPool-1 - Exception during pool initialization.

com.mysql.cj.jdbc.exceptions.CommunicationsException: Communications link failure

The last packet sent successfully to the server was 0 milliseconds ago. The driver has not received any packets from the server.
at com.mysql.cj.jdbc.exceptions.SQLException.createCommunicationsException(SQLException.java:174) ~[mysql-connector-java-8.0.26.jar!/:8.0.26]
at com.mysql.cj.jdbc.exceptions.SQLExceptionsMapping.translateException(SQLExceptionsMapping.java:64) ~[mysql-connector-java-8.0.26.jar!/:8.0.26]
at com.mysql.cj.jdbc.ConnectionImpl.createNewIO(ConnectionImpl.java:828) ~[mysql-connector-java-8.0.26.jar!/:8.0.26]
at com.mysql.cj.jdbc.ConnectionImpl.<init>(ConnectionImpl.java:448) ~[mysql-connector-java-8.0.26.jar!/:8.0.26]
at com.mysql.cj.jdbc.ConnectionImpl.getInstance(ConnectionImpl.java:241) ~[mysql-connector-java-8.0.26.jar!/:8.0.26]
at com.mysql.cj.jdbc.NonRegisteringDriver.connect(NonRegisteringDriver.java:198) ~[mysql-connector-java-8.0.26.jar!/:8.0.26]
at com.zaxxer.hikari.util.DriverDataSource.getConnection(DriverDataSource.java:138) ~[HikariCP-4.0.3.jar!/:na]
at com.zaxxer.hikari.pool.PoolBase.newConnection(PoolBase.java:364) ~[HikariCP-4.0.3.jar!/:na]
at com.zaxxer.hikari.pool.PoolBase.newPoolEntry(PoolBase.java:286) ~[HikariCP-4.0.3.jar!/:na]
at com.zaxxer.hikari.pool.HikariPool.createPoolEntry(HikariPool.java:476) ~[HikariCP-4.0.3.jar!/:na]
```

```
C:\Windows\System32\cmd.exe

at com.zaxxer.hikari.pool.HikariPool.createPoolEntry(HikariPool.java:476) ~[HikariCP-4.0.3.jar!/:na]
at com.zaxxer.hikari.pool.HikariPool.checkFailFast(HikariPool.java:561) ~[HikariCP-4.0.3.jar!/:na]
at com.zaxxer.hikari.pool.HikariPool.<init>(HikariPool.java:115) ~[HikariCP-4.0.3.jar!/:na]
at com.zaxxer.hikari.HikariDataSource.getConnection(HikariDataSource.java:112) ~[HikariCP-4.0.3.jar!/:na]
at org.hibernate.engine.jdbc.connections.internal.DataSourceConnectionProviderImpl.getConnection(DataSourceConnectionProviderImpl.java:122) ~[hibernate-core-5.4.32.Final.jar!/:5.4.32.Final]
at org.hibernate.engine.jdbc.env.internal.JdbcEnvironmentInitiator$ConnectionProviderJdbcConnectionAccess.obtainConnection(JdbcEnvironmentInitiator.java:188) ~[hibernate-core-5.4.32.Final.jar!/:5.4.32.Final]
at org.hibernate.resource.transaction.backend.jdbc.internal.DdlTransactionIsolatorNonJtaImpl.getIsolatedConnection(DdlTransactionIsolatorNonJtaImpl.java:43) ~[hibernate-core-5.4.32.Final.jar!/:5.4.32.Final]
... 43 common frames omitted
Caused by: com.mysql.cj.exceptions.CJCommunicationsException: Communications link failure

The last packet sent successfully to the server was 0 milliseconds ago. The driver has not received any packets from the server.
at java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance0(Native Method) ~[na:na]
at java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance(NativeConstructorAccessorImpl.java:77) ~[na:na]
at java.base/jdk.internal.reflect.DelegatingConstructorAccessorImpl.newInstance(DelegatingConstructorAccessorImpl.java:45) ~[na:na]
at java.base/java.lang.reflect.Constructor.newInstanceWithCaller(Constructor.java:499) ~[na:na]
at java.base/java.lang.reflect.Constructor.newInstance(Constructor.java:480) ~[na:na]
at com.mysql.cj.exceptions.ExceptionFactory.createException(ExceptionFactory.java:61) ~[mysql-connector-java-8.0.26.jar!/:8.0.26]
at com.mysql.cj.exceptions.ExceptionFactory.createException(ExceptionFactory.java:105) ~[mysql-connector-java-8.0.26.jar!/:8.0.26]
at com.mysql.cj.exceptions.ExceptionFactory.createException(ExceptionFactory.java:151) ~[mysql-connector-java-8.0.26.jar!/:8.0.26]
at com.mysql.cj.exceptions.ExceptionFactory.createCommunicationsException(ExceptionFactory.java:167) ~[mysql-connector-java-8.0.26.jar!/:8.0.26]
at com.mysql.cj.protocol.a.NativeSocketConnection.connect(NativeSocketConnection.java:89) ~[mysql-connector-java-8.0.26.jar!/:8.0.26]
at com.mysql.cj.NativeSession.connect(NativeSession.java:119) ~[mysql-connector-java-8.0.26.jar!/:8.0.26]
at com.mysql.cj.jdbc.ConnectionImpl.connectOneTryOnly(ConnectionImpl.java:948) ~[mysql-connector-java-8.0.26.jar!/:8.0.26]
at com.mysql.cj.jdbc.ConnectionImpl.createNewIO(ConnectionImpl.java:818) ~[mysql-connector-java-8.0.26.jar!/:8.0.26]
... 56 common frames omitted
Caused by: java.net.ConnectException: Connection refused
at java.base/sun.nio.ch.Net.pollConnect(Native Method) ~[na:na]
at java.base/sun.nio.ch.Net.pollConnectNow(Net.java:672) ~[na:na]
at java.base/sun.nio.ch.NioSocketImpl.timedFinishConnect(NioSocketImpl.java:542) ~[na:na]
at java.base/sun.nio.ch.NioSocketImpl.connect(NioSocketImpl.java:597) ~[na:na]
at java.base/java.net.SocketSocketImpl.connect(SocketSocketImpl.java:327) ~[na:na]
at java.base/java.net.Socket.connect(Socket.java:633) ~[na:na]
at com.mysql.cj.protocol.StandardSocketFactory.connect(StandardSocketFactory.java:156) ~[mysql-connector-java-8.0.26.jar!/:8.0.26]
at com.mysql.cj.protocol.a.NativeSocketConnection.connect(NativeSocketConnection.java:63) ~[mysql-connector-java-8.0.26.jar!/:8.0.26]
... 59 common frames omitted

D:\TVM_CDAC\FINAL_PROJECT\FINAL_PROJECT\E-KrushSevaBackEnd\E-KrushSevaBackEnd>
```

## Runing .jar file

