STOCK MANAGEMENT USING HIBERNATE

SOLUTION:

```
package org.model;
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.List;
import javax.persistence.ElementCollection;
import javax.persistence.Query;
import org.dom4j.Branch;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
public class Solution1 {
      @ElementCollection
      private static void save(Stock stock) {
             SessionFactory sf = new
Configuration().configure().buildSessionFactory();
             Session session = sf.openSession();
             session.beginTransaction();
             session.save(stock);
             session.getTransaction().commit();
             session.close();
      }
      private static void addProduct() throws IOException {
             BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
             Stock stock = new Stock();
             System.out.println("PRODUCT NAME :");
             stock.setProductName(br.readLine());
             System.out.println("QUANTITY :");
             stock.setQuantity(Integer.valueOf(br.readLine()));
             System.out.println("PRICE :");
             stock.setPrice(Float.valueOf(br.readLine()));
             System.out.println("MANUFACTURE DATE :");
             stock.setManufactureDate(br.readLine());
             save(stock);
      }
      private static void viewAll() {
             SessionFactory sf = new
Configuration().configure().buildSessionFactory();
             Session session = sf.openSession();
             Query query = session.createQuery("from Stock");
             List<Stock> list = query.getResultList();
             for(Stock each:list) {
                   System.out.println(each);
             }
      }
      private static void updateProduct() throws NumberFormatException,
IOException {
```

```
BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
             SessionFactory sf = new
Configuration().configure().buildSessionFactory();
             Session session = sf.openSession();
             System.out.println("Enter Product ID:");
             int pid = Integer.valueOf(br.readLine());
             try {
                   Stock stock = session.get(Stock.class, pid);
                   System.out.println("PRODUCT NAME :");
                    stock.setProductName(br.readLine());
                   System.out.println("QUANTITY :");
                    stock.setQuantity(Integer.valueOf(br.readLine()));
                   System.out.println("PRICE :");
                    stock.setPrice(Float.valueOf(br.readLine()));
                   System.out.println("MANUFACTURE DATE :");
                   stock.setManufactureDate(br.readLine());
                   save(stock);
             }
             catch(Exception e) {
                   System.out.println("PRODUCT ID NOT AVAILABLE");
             }
      }
      private static void deleteProduct() throws NumberFormatException,
IOException {
             BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
             SessionFactory sf = new
Configuration().configure().buildSessionFactory();
             Session session = sf.openSession();
             System.out.println("Enter Product ID (to delete):");
             int pid = Integer.valueOf(br.readLine());
             try {
                    Stock stock = session.get(Stock.class, pid);
                    session.delete(stock);
                   save(stock);
             catch(Exception e) {
             }
      }
      public static void main(String[] args) throws NumberFormatException,
IOException {
             BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
             System.out.println("******* STOCK MANAGEMENT ********");
             Login login = new Login();
             Authenticate au = new Authenticate();
             System.out.println("USERNAME :");
             login.setUserName(br.readLine());
             System.out.println("PASSWORD :");
             login.setPassword(br.readLine());
             if (!au.checkUser(login)) {
                    System.out.println("INVALID USER");
                   System.exit(0);
             }
```

```
while(true) {
                    System.out.println("1.Add Product\n2.View All\n3.Update
Product\n4.Delete Product\n5.Exit");
                    switch(Integer.valueOf(br.readLine())) {
                    case 1: addProduct();
                                 break;
                    case 2: viewAll();
                                 break;
                    case 3: updateProduct();
                                 break;
                    case 4: deleteProduct();
                                 break;
                    case 5: System.out.println("***BYE***");
                                 System.exit(0);
                                 break;
                    default:System.out.println("Invaid Input");
                    }
             }
      }
}
LOGIN:
package org.model;
import javax.persistence.Entity;
import javax.persistence.Id;
@Entity
public class Login {
      @Id
      private String userName;
      private String password;
      public String getUserName() {
             return userName;
      }
      public void setUserName(String userName) {
             this.userName = userName;
      public String getPassword() {
             return password;
      public void setPassword(String password) {
             this.password = password;
      }
}
AUTHENTICATE:
package org.model;
```

```
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
public class Authenticate {
      public boolean checkUser(Login user) {
             SessionFactory sf = new
Configuration().configure().buildSessionFactory();
             Session session = sf.openSession();
             session.beginTransaction();
             Login 1 = session.get(Login.class, user.getUserName());
      //System.out.println(1.getUserName()+1.getPassword()+user.getUserName()+use
r.getPassword());
             if(1.getUserName().equals(user.getUserName()) &&
1.getPassword().equals(user.getPassword()))
                    return true;
             }
             catch(Exception e) {
                    return false;
             return false;
      }
}
STOCK:
package org.model;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.Id;
@Entity
public class Stock {
      @Id
      @GeneratedValue
      private int productId;
      private String productName;
      private int quantity;
      private float price;
      private String manufactureDate;
      public int getProductId() {
             return productId;
      public String getProductName() {
             return productName;
      public void setProductName(String productName) {
             this.productName = productName;
      public int getQuantity() {
             return quantity;
      }
```

```
public void setQuantity(int quantity) {
                                                               this.quantity = quantity;
                                }
                                public float getPrice() {
                                                               return price;
                                public void setPrice(float price) {
                                                               this.price = price;
                                }
                                public String getManufactureDate() {
                                                                return manufactureDate;
                                public void setManufactureDate(String manufactureDate) {
                                                                this.manufactureDate = manufactureDate;
                                @Override
                                public String toString() {
                                                                return "\nproductId=" + productId + "\n productName=" + productName
+ "\n quantity=" + quantity + "\n price="
                                                                                                                                 + price + "\n manufactureDate=" + manufactureDate;
                                }
}
OUTPUT:
  ****** STOCK MANAGEMENT *******
 USERNAME :
  PASSWORD :
Aug 27, 2017 7:16:08 PM org.hibernate.Version logVersion
INFO: HHH000412: Hibernate Core (5.2.8.Final)
Aug 27, 2017 7:16:08 PM org.hibernate.cfg.Environment <clinit>
INFO: HHH000206: hibernate.properties not found
Aug 27, 2017 7:16:08 PM org.hibernate.annotations.common.reflection.java.JavaReflectionManager <clinit>
Aug 27, 2017 7:16:08 PM org.hibernate.annotations.common.reflection.java.JavaReflectionManager <clinit>
INFO: HCANN000001: Hibernate Commons Annotations {5.0.1.Final}
Aug 27, 2017 7:16:08 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl configure
WARN: HHH10001002: Using Hibernate built-in connection pool (not for production use!)
Aug 27, 2017 7:16:08 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HHH10001005: using driver [com.mysql.jdbc.Driver] at URL [jdbc:mysql://localhost:3306/test]
Aug 27, 2017 7:16:08 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HHH10001001: Connection properties: {user=root, password=*****}
Aug 27, 2017 7:16:08 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HHH10001003: Autocommit mode: false
Aug 27, 2017 7:16:08 PM org.hibernate.engine.jdbc.connections.internal.ProledConnections <inity
INFO: HHH10001003: Autocommit mode: false
Aug 27, 2017 7:16:09 PM org, hibernate.engine.jdbc.connections.internal.PooledConnections <init>
INFO: HHH000115: Hibernate connection pool size: 10 (min=1)
Aug 27, 2017 7:16:09 PM org, hibernate.dialect.Dialect /init>
INFO: HH0000400: Using dialect: org, hibernate.dialect.MySQLDialect
Aug 27, 2017 7:16:09 PM org, hibernate.engine.jdbc.env.internal.lobCreatorBuilderImpl useContextualLobCreation
INFO: HHH000423: Disabling contextual LOB creation as JDBC driver reported JDBC version [3] less than 4
Aug 27, 2017 7:16:10 PM org, hibernate.resource.transaction.backend.jdbc.internal.DdlTransactionIsolatorHonJtaImpl getIsolatedConnection
INFO: HHH10001501: Connection obtained from JdbcConnectionAccess [org.hibernate.engine.jdbc.env.internal.JdbcEnvironmentInfitatorSConnection
INFO: HH10001501: Connection obtained from JdbcConnectionAccess [org.hibernate.engine.jdbc.env.internal.JdbcEnvironmentInfitatorSConnectionAccess [org.hiberna
                                                                                                                                                                                                                                                                                          onmentInitiator$ConnectionProviderJdbcConnectionAccess@7e3181aa] for
  Hibernate: select login@_userName as userName1_1_0_, login@_.password as password2_1_0_ from Login login0_ where login0_userName=?
  1.Add Product
  2.View All
  3.Update Product
  4.Delete Product
 5.Exit
```

```
Aug 27, 2017 7:16:12 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl configure

WARN! HHH1001002: Using Hibernate built-in connection pool (not for production use!)
Aug 27, 2017 7:16:12 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HHH10001003: using driver [com.wgs.l.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HH10001001: Connection properties: (user=root, password="""""
Aug 27, 2017 7:16:12 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HH10001003: Autocommit mode: failer.
Aug 27, 2017 7:16:12 PM org.hibernate.engine.jdbc.connections.internal.PooledConnectionProviderImpl buildCreator
INFO: HH10001003: Autocommit mode: failer.
Aug 27, 2017 7:16:12 PM org.hibernate.engine.jdbc.connections.internal.PooledConnections (init)
INFO: HH1000115: Hibernate connection production
Aug 27, 2017 7:16:12 PM org.hibernate.dialect.Dialect (init)
Aug 27, 2017 7:16:12 PM org.hibernate.dialect.Dialect (init)
Aug 27, 2017 7:16:12 PM org.hibernate.dialect.Dialect (init)
Aug 27, 2017 7:16:12 PM org.hibernate.engine.jdbc.connectionSulderImpl useContextualLobCreation
INFO: HH10001501: Org.hibernate.engine.jdbc.connectionSulderImpl useContextualLobCreation
INFO: HH10001501: Org.hibernate.engine.jdbc.connectionSulderImpl getIsolatedConnection
INFO: HH10001501: Org.hibernate.engine.jdbc.connectionSulderImpl getIsolatedConnectionProviderJdbcConnectionAccess@Gaecbb8d] for Aug 27, 2017 7:16:12 PM org.hibernate.engine.jdbc.connectionSulderImpl getIsolatedConnectionProviderJdbcConnectionAccess@Gaecbb8d] for Aug 27, 2017 7:16:12 PM org.hibernate.engine.jdbc.connectionSulderImpl getIsolatedConnectionProviderJdbcConnectionAccess@Gaecbb8d] for Aug 27, 2017 7:16:12 PM org.hibernate.engine.jdbc.connectionSulderImpl getIsolatedConnectionAccess@Gaecbb8d] for Aug 27, 2017 7:16:12 PM org.hibernate.engine.jdbc.connectionAccess@Gaecbb8d] for Aug 27, 2017 7:16:12 PM
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