Submitted By: Samita Shrestha

CUSTOMER MANAGEMENT SYSTEM PROJECT USING HIBERNATE

Tools used: Eclipse IDE

The walkthrough of output snippet, implementation and the handled exception are shown below.
All the output below is exported from the Customer Management System project that I had submitted.

1. *Implementation of Add Customer*

```
::WELCOME TO CUSTOMER MANAGEMENT SYSTEM ::
======================================
      1.Add Customer
      2.View All Customer
      3.View Customer
      4.Update Customer
      5.Delete Customer
      6.EXIT
Please enter the choice between [1-6]:
======================================
1


---------------------------------
You entered Choice Number: 1
---------------------------------


Please begin Adding the customer information
----------------------------------------------

Enter the Customer ID: 111
Enter the Customer Name: Ruksha
Enter the Customer Address: USA
----------------------------------------------


Please Wait.........

Aug 28, 2022 2:30:51 PM org.hibernate.Version logVersion
INFO: HHH000412: Hibernate ORM core version 5.4.24.Final
Aug 28, 2022 2:30:52 PM
org.hibernate.annotations.common.reflection.java.JavaReflectionManager <clinit>
INFO: HCANN000001: Hibernate Commons Annotations {5.1.2.Final}
Aug 28, 2022 2:30:52 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
configure
WARN: HHH10001002: Using Hibernate built-in connection pool (not for production use!)
Loading class `com.mysql.jdbc.Driver'. This is deprecated. The new driver class is
`com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI and
manual loading of the driver class is generally unnecessary.
Aug 28, 2022 2:30:52 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
```

```
INFO: HHH10001005: using driver [com.mysql.jdbc.Driver] at URL
[jdbc:mysql://localhost:3306/takio]
Aug 28, 2022 2:30:52 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001001: Connection properties: {user=root, password=****}
Aug 28, 2022 2:30:52 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001003: Autocommit mode: false
Aug 28, 2022 2:30:52 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$Po
oledConnections <init>
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Aug 28, 2022 2:30:53 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Aug 28, 2022 2:30:53 PM
org.hibernate.engine.transaction.jta.platform.internal.JtaPlatformInitiator
initiateService
INFO: HHH000490: Using JtaPlatform implementation:
[org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
Hibernate:
    /* insert com.takio.entity.Customer
        */ insert
        into
            CUSTOMER
            (CADD, CNAME, CNO)
        values
            (?, ?, ?)

===============================================
Customer Information is added, Successfully!!
=================================================



=======================================
        1.Add Customer
        2.View All Customer
        3.View Customer
        4.Update Customer
        5.Delete Customer
        6.EXIT
Please enter the choice between [1-6]:
=======================================
```

2. *Implementation of View All Customer*

```
=======================================
        1.Add Customer
        2.View All Customer
        3.View Customer
        4.Update Customer
        5.Delete Customer
```

```
        6.EXIT
Please enter the choice between [1-6]:
=======================================
2


----------------------------------
You entered Choice Number: 2
----------------------------------

Please Wait.........

Aug 28, 2022 2:32:38 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
configure
WARN: HHH10001002: Using Hibernate built-in connection pool (not for production use!)
Aug 28, 2022 2:32:38 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001005: using driver [com.mysql.jdbc.Driver] at URL
[jdbc:mysql://localhost:3306/takio]
Aug 28, 2022 2:32:38 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001001: Connection properties: {user=root, password=****}
Aug 28, 2022 2:32:38 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$Po
oledConnections <init>
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Aug 28, 2022 2:32:38 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Aug 28, 2022 2:32:38 PM
org.hibernate.engine.transaction.jta.platform.internal.JtaPlatformInitiator
initiateService
INFO: HHH000490: Using JtaPlatform implementation:
[org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
Hibernate:
    /*
from
    Customer */ select
        customer0_.CNO as cno1_0_,
        customer0_.CADD as cadd2_0_,
        customer0_.CNAME as cname3_0_
    from
        CUSTOMER customer0_

============================
Displaying all Records:
============================

    Customer Table
--------------------------------
```

```
cno    cname  cadd
-----------------------------------
1      Samita USA
-----------------------------------
2      Fiyona Pakistan
-----------------------------------
3      Sunita Nepal
-----------------------------------
4      Bibil  Autralia
-----------------------------------
5      Mallika      Nepal
-----------------------------------
6      Malli  India
-----------------------------------
7      Kusum  Bhutan
-----------------------------------
8      Saroj  Norway
-----------------------------------
9      Ram    USA
-----------------------------------
10     Bethany      Phillippines
-----------------------------------
11     Diya   Poland
-----------------------------------
12     Husky  USA
-----------------------------------
13     Liona  Mexico
-----------------------------------
14     Zhang  China
-----------------------------------
15     Poki   japan
-----------------------------------
17     Raquel Mexico
-----------------------------------
111    Ruksha USA
-----------------------------------


======================================
      1.Add Customer
      2.View All Customer
      3.View Customer
      4.Update Customer
      5.Delete Customer
      6.EXIT
Please enter the choice between [1-6]:
======================================
```

3. *Implementation of View Customer:*

```
======================================
      1.Add Customer
      2.View All Customer
```

```
        3.View Customer
        4.Update Customer
        5.Delete Customer
        6.EXIT
Please enter the choice between [1-6]:
======================================
3


----------------------------------
You entered Choice Number: 3
----------------------------------
Enter the Customer ID: 111

Please Wait.........

Aug 28, 2022 2:34:19 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
configure
WARN: HHH10001002: Using Hibernate built-in connection pool (not for production use!)
Aug 28, 2022 2:34:19 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001005: using driver [com.mysql.jdbc.Driver] at URL
[jdbc:mysql://localhost:3306/takio]
Aug 28, 2022 2:34:19 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001001: Connection properties: {user=root, password=****}
Aug 28, 2022 2:34:19 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$Po
oledConnections <init>
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Aug 28, 2022 2:34:19 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Aug 28, 2022 2:34:19 PM
org.hibernate.engine.transaction.jta.platform.internal.JtaPlatformInitiator
initiateService
INFO: HHH000490: Using JtaPlatform implementation:
[org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
Hibernate:
    select
        customer0_.CNO as cno1_0_0_,
        customer0_.CADD as cadd2_0_0_,
        customer0_.CNAME as cname3_0_0_
    from
        CUSTOMER customer0_
    where
        customer0_.CNO=?

==============================
Information of Customer Id: 111
```

```
==============================

-------------------------
cid    cname  cadd
-------------------------
111    Ruksha USA
-------------------------



=======================================
       1.Add Customer
       2.View All Customer
       3.View Customer
       4.Update Customer
       5.Delete Customer
       6.EXIT
Please enter the choice between [1-6]:
=======================================
```

4. Implementation of Update Customer

```
=======================================
       1.Add Customer
       2.View All Customer
       3.View Customer
       4.Update Customer
       5.Delete Customer
       6.EXIT
Please enter the choice between [1-6]:
=======================================
4


----------------------------------
You entered Choice Number: 4
----------------------------------
Enter the Customer ID: 12

Please Wait.........

Aug 28, 2022 2:35:04 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
configure
WARN: HHH10001002: Using Hibernate built-in connection pool (not for production use!)
Aug 28, 2022 2:35:04 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001005: using driver [com.mysql.jdbc.Driver] at URL
[jdbc:mysql://localhost:3306/takio]
Aug 28, 2022 2:35:04 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001001: Connection properties: {user=root, password=****}
```

Aug 28, 2022 2:35:04 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001003: Autocommit mode: false
Aug 28, 2022 2:35:04 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$Po
oledConnections <init>
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Aug 28, 2022 2:35:04 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Aug 28, 2022 2:35:04 PM
org.hibernate.engine.transaction.jta.platform.internal.JtaPlatformInitiator
initiateService
INFO: HHH000490: Using JtaPlatform implementation:
[org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]

```
==============================
What would you want to update?
1. cname
2. cadd
3. Both
4. Return to Main Menu
==============================
1
Hibernate:
    select
        customer0_.CNO as cno1_0_0_,
        customer0_.CADD as cadd2_0_0_,
        customer0_.CNAME as cname3_0_0_
    from
        CUSTOMER customer0_
    where
        customer0_.CNO=?

====================================================
Please enter the new value of cname for cid: 12
====================================================
Original value: Husky
New Name: Donald

Hibernate:
    /* update
        com.takio.entity.Customer */ update
            CUSTOMER
        set
            CADD=?,
            CNAME=?
        where
            CNO=?

======================
Update Successful !!!
======================


======================================
```

```
        1.Add Customer
        2.View All Customer
        3.View Customer
        4.Update Customer
        5.Delete Customer
        6.EXIT
Please enter the choice between [1-6]:
=======================================
```

5. *Implementation of Delete Customer*

```
=======================================
        1.Add Customer
        2.View All Customer
        3.View Customer
        4.Update Customer
        5.Delete Customer
        6.EXIT
Please enter the choice between [1-6]:
=======================================
5


----------------------------------
You entered Choice Number: 5
----------------------------------
Enter the Customer ID: 111

Please Wait.........

Aug 28, 2022 2:35:41 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
configure
WARN: HHH10001002: Using Hibernate built-in connection pool (not for production use!)
Aug 28, 2022 2:35:41 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001005: using driver [com.mysql.jdbc.Driver] at URL
[jdbc:mysql://localhost:3306/takio]
Aug 28, 2022 2:35:41 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001001: Connection properties: {user=root, password=****}
Aug 28, 2022 2:35:41 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001003: Autocommit mode: false
Aug 28, 2022 2:35:41 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$Po
oledConnections <init>
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Aug 28, 2022 2:35:41 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
```

```
Aug 28, 2022 2:35:41 PM
org.hibernate.engine.transaction.jta.platform.internal.JtaPlatformInitiator
initiateService
INFO: HHH000490: Using JtaPlatform implementation:
[org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
Hibernate:
    select
        customer0_.CNO as cno1_0_0_,
        customer0_.CADD as cadd2_0_0_,
        customer0_.CNAME as cname3_0_0_
    from
        CUSTOMER customer0_
    where
        customer0_.CNO=?
Hibernate:
    /* delete com.takio.entity.Customer */ delete
        from
            CUSTOMER
        where
            CNO=?


========================
Deletion Successful !!
========================


=======================================
      1.Add Customer
      2.View All Customer
      3.View Customer
      4.Update Customer
      5.Delete Customer
      6.EXIT
Please enter the choice between [1-6]:
=======================================
```

6. Implementation of Exit

```
=======================================
      1.Add Customer
      2.View All Customer
      3.View Customer
      4.Update Customer
      5.Delete Customer
      6.EXIT
Please enter the choice between [1-6]:
=======================================
6


---------------------------------
You entered Choice Number: 6
---------------------------------
Exiting!!!!!!!
```

```
Thank you!!
```

Input mismatch exception handled

```
::WELCOME TO CUSTOMER MANAGEMENT SYSTEM ::
=======================================
        1.Add Customer
        2.View All Customer
        3.View Customer
        4.Update Customer
        5.Delete Customer
        6.EXIT
Please enter the choice between [1-6]:
=======================================
dd
=======================================
Only integer value is accepted
Please enter the choice, Again !
=======================================

=======================================
        1.Add Customer
        2.View All Customer
        3.View Customer
        4.Update Customer
        5.Delete Customer
        6.EXIT
Please enter the choice between [1-6]:
=======================================
```

Exception Handling:

1. Handling Input Mismatch Exception

```
::WELCOME TO CUSTOMER MANAGEMENT SYSTEM ::
=======================================
        1.Add Customer
        2.View All Customer
        3.View Customer
        4.Update Customer
        5.Delete Customer
        6.EXIT
Please enter the choice between [1-6]:
=======================================
jj
=======================================
Only integer value is accepted
Please enter the choice, Again !
```

```
=======================================

=======================================
      1.Add Customer
      2.View All Customer
      3.View Customer
      4.Update Customer
      5.Delete Customer
      6.EXIT
Please enter the choice between [1-6]:
=======================================
3


---------------------------------
You entered Choice Number: 3
---------------------------------
Enter the Customer ID: k
=======================================
Only integer value is accepted
Please enter the choice, Again !
=======================================
112


Please Wait.........

Aug 28, 2022 2:39:28 PM org.hibernate.Version logVersion
INFO: HHH000412: Hibernate ORM core version 5.4.24.Final
Aug 28, 2022 2:39:29 PM
org.hibernate.annotations.common.reflection.java.JavaReflectionManager <clinit>
INFO: HCANN000001: Hibernate Commons Annotations {5.1.2.Final}
Aug 28, 2022 2:39:29 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
configure
WARN: HHH10001002: Using Hibernate built-in connection pool (not for production use!)
Loading class `com.mysql.jdbc.Driver'. This is deprecated. The new driver class is
`com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI and
manual loading of the driver class is generally unnecessary.
Aug 28, 2022 2:39:29 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001005: using driver [com.mysql.jdbc.Driver] at URL
[jdbc:mysql://localhost:3306/takio]
Aug 28, 2022 2:39:29 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001001: Connection properties: {user=root, password=****}
Aug 28, 2022 2:39:29 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001003: Autocommit mode: false
Aug 28, 2022 2:39:29 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$Po
oledConnections <init>
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Aug 28, 2022 2:39:30 PM org.hibernate.dialect.Dialect <init>
```

INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Aug 28, 2022 2:39:30 PM
org.hibernate.engine.transaction.jta.platform.internal.JtaPlatformInitiator
initiateService
INFO: HHH000490: Using JtaPlatform implementation:
[org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
Hibernate:
    select
        customer0_.CNO as cno1_0_0_,
        customer0_.CADD as cadd2_0_0_,
        customer0_.CNAME as cname3_0_0_
    from
        CUSTOMER customer0_
    where
        customer0_.CNO=?

====================
Record not found!!
=====================

2. *Handling for Duplicate Primary key*

=======================================
      1.Add Customer
      2.View All Customer
      3.View Customer
      4.Update Customer
      5.Delete Customer
      6.EXIT
Please enter the choice between [1-6]:
=======================================

=======================================
      1.Add Customer
      2.View All Customer
      3.View Customer
      4.Update Customer
      5.Delete Customer
      6.EXIT
Please enter the choice between [1-6]:
=======================================
1

You entered Choice Number: 1

Please begin Adding the customer information

Enter the Customer ID: 12

```
Enter the Customer Name: Riya
Enter the Customer Address: USA
-----------------------------------------------


Please Wait.........

Aug 28, 2022 2:40:48 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
configure
WARN: HHH10001002: Using Hibernate built-in connection pool (not for production use!)
Aug 28, 2022 2:40:48 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001005: using driver [com.mysql.jdbc.Driver] at URL
[jdbc:mysql://localhost:3306/takio]
Aug 28, 2022 2:40:48 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001001: Connection properties: {user=root, password=****}
Aug 28, 2022 2:40:48 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001003: Autocommit mode: false
Aug 28, 2022 2:40:48 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$Po
oledConnections <init>
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Aug 28, 2022 2:40:48 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Aug 28, 2022 2:40:48 PM
org.hibernate.engine.transaction.jta.platform.internal.JtaPlatformInitiator
initiateService
INFO: HHH000490: Using JtaPlatform implementation:
[org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
Hibernate:
    /* insert com.takio.entity.Customer
        */ insert
        into
            CUSTOMER
            (CADD, CNAME, CNO)
        values
            (?, ?, ?)
Aug 28, 2022 2:40:48 PM org.hibernate.engine.jdbc.spi.SqlExceptionHelper
logExceptions
WARN: SQL Error: 1062, SQLState: 23000
Aug 28, 2022 2:40:48 PM org.hibernate.engine.jdbc.spi.SqlExceptionHelper
logExceptions
ERROR: Duplicate entry '12' for key 'customer.PRIMARY'

=======================================
Duplicate Primary Key, Please TRY Again !!
=======================================

=======================================
```

```
        1.Add Customer
        2.View All Customer
        3.View Customer
        4.Update Customer
        5.Delete Customer
        6.EXIT
Please enter the choice between [1-6]:
========================================
```