

## LOGIN 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 Login Management System project that I have submitted.

### 1. Implementation of Register

```
=====
      WELCOME
      TO
      LOGIN MANAGEMENT SYSTEM
=====
      1. Register
      2. Login
      3. Signout
      Enter the choice:
=====
      1
=====

Enter User ID: 19
Enter First name: Riya
Enter Last Name: Basnet
Enter Email: rya.basnet@outlook.com
Enter User name: Rbasnet
Enter password: 12345

=====

Please Wait.....

Aug 28, 2022 2:55:45 PM org.hibernate.Version logVersion
INFO: HHH000412: Hibernate ORM core version 5.4.24.Final
Aug 28, 2022 2:55:45 PM
org.hibernate.annotations.common.reflection.java.JavaReflectionManager <clinit>
INFO: HCANN000001: Hibernate Commons Annotations {5.1.2.Final}
Aug 28, 2022 2:55:45 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 2:55:45 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 2:55:45 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001001: Connection properties: {user=root, password=****}
Aug 28, 2022 2:55:45 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001003: Autocommit mode: false
Aug 28, 2022 2:55:45 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$Po
oledConnections <init>
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Aug 28, 2022 2:55:46 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Aug 28, 2022 2:55:47 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.User
    */ insert
    into
        USER
        (EMAIL, FIRSTNAME, LASTNAME, PASSWORD, USERNAME, UID)
    values
        (?, ?, ?, ?, ?, ?)
```

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

```
=====
1. Register
2. Login
3. Signout
Enter the choice:
=====
```

## **2. Implementation of Login**

```
=====
WELCOME
TO
LOGIN MANAGEMENT SYSTEM
=====
1. Register
2. Login
3. Signout
Enter the choice:
=====
```

2

Enter User name: Rbasnet

Enter password: 12345

Please Wait.....

```
Aug 28, 2022 3:14:22 PM org.hibernate.Version logVersion
INFO: HHH000412: Hibernate ORM core version 5.4.24.Final
Aug 28, 2022 3:14:23 PM
org.hibernate.annotations.common.reflection.java.JavaReflectionManager <clinit>
INFO: HCANN000001: Hibernate Commons Annotations {5.1.2.Final}
Aug 28, 2022 3:14:23 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 3:14:23 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 3:14:23 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001001: Connection properties: {user=root, password=****}
Aug 28, 2022 3:14:23 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001003: Autocommit mode: false
Aug 28, 2022 3:14:23 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$Po
oledConnections <init>
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Aug 28, 2022 3:14:24 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Aug 28, 2022 3:14:25 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
    u
  from
    User u
  where
    username=:uname
  AND password=:pass */ select
    user0_.UID as uid1_0_,
    user0_.EMAIL as email2_0_,
    user0_.FIRSTNAME as firstnam3_0_,
    user0_.LASTNAME as lastname4_0_,
    user0_.PASSWORD as password5_0_,
    user0_.USERNAME as username6_0_
```

```
from
  USER user0_
where
  user0_.USERNAME=?
  and password=?
```

-----  
Username and password Accepted  
-----

=====

```
: Welcome to USER PORTAL :
=====
```

```
1. View your Information
2. Signout
Enter the choice:
```

=====

```
1
```

Please Wait.....

```
Aug 28, 2022 3:14:28 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
configure
WARN: HHH10001002: Using Hibernate built-in connection pool (not for production use!)
Aug 28, 2022 3:14:28 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 3:14:28 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001001: Connection properties: {user=root, password=****}
Aug 28, 2022 3:14:28 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001003: Autocommit mode: false
Aug 28, 2022 3:14:28 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$Po
oledConnections <init>
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Aug 28, 2022 3:14:28 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Aug 28, 2022 3:14:28 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
  u
from
  User u
where
```

```
username=:uname
AND password=:pass */ select
    user0_.UID as uid1_0_,
    user0_.EMAIL as email2_0_,
    user0_.FIRSTNAME as firstnam3_0_,
    user0_.LASTNAME as lastname4_0_,
    user0_.PASSWORD as password5_0_,
    user0_.USERNAME as username6_0_
from
    USER user0_
where
    user0_.USERNAME=?
    and password=?
```

```
=====
User ID:      19
First Name:   Riyana
Last Name:    Basnet
Email Address: rya.basnet@outlook.com
Username:     Rbasnet
Password:     12345
=====
```

```
=====
1. View your Information
2. Signout
Enter the choice:
=====
2
```

Signing Out.....!!

```
=====
WELCOME
TO
LOGIN MANAGEMENT SYSTEM
=====
1. Register
2. Login
3. Signout
Enter the choice:
=====
```

### **3. Implementation of Signout**

```
=====
WELCOME
TO
LOGIN MANAGEMENT SYSTEM
=====
```

```
1. Register
2. Login
3. Signout
Enter the choice:
=====
3
-----
Thank you for using LOGIN management system
Good Bye! :)
-----
```

#### **4. Exception Handling**

##### ***i) Input Mismatch Exception Handling***

```
=====
WELCOME
TO
LOGIN MANAGEMENT SYSTEM
=====
1. Register
2. Login
3. Signout
Enter the choice:
=====
bbb
=====
Only integer value is accepted
Please enter the choice, Again !
=====
1
=====

Enter User ID: ghgh
=====
Only integer value is accepted
Please enter the choice, Again !
=====
21
Enter First name: Deanna
Enter Last Name: Powell
Enter Email: dpowell
Enter User name: dpow1
Enter password: abc123@

=====

Please Wait.....
```

```
Aug 28, 2022 3:16:19 PM org.hibernate.Version logVersion
INFO: HHH000412: Hibernate ORM core version 5.4.24.Final
Aug 28, 2022 3:16:20 PM
org.hibernate.annotations.common.reflection.java.JavaReflectionManager <clinit>
INFO: HCANN000001: Hibernate Commons Annotations {5.1.2.Final}
```

```
Aug 28, 2022 3:16:20 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 3:16:20 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 3:16:20 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001001: Connection properties: {user=root, password=****}
Aug 28, 2022 3:16:20 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001003: Autocommit mode: false
Aug 28, 2022 3:16:20 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$Po
oledConnections <init>
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Aug 28, 2022 3:16:21 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Aug 28, 2022 3:16:21 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.User
       */ insert
       into
           USER
           (EMAIL, FIRSTNAME, LASTNAME, PASSWORD, USERNAME, UID)
       values
           (?, ?, ?, ?, ?, ?)

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

=====
1. Register
2. Login
3. Signout
Enter the choice:
=====
```

ii) Duplicate Primary Key Exception Handling

=====

WELCOME  
TO  
LOGIN MANAGEMENT SYSTEM

=====

1. Register
2. Login
3. Signout

Enter the choice:

=====

1

=====

Enter User ID: 21

Enter First name: George

Enter Last Name: Stone

Enter Email: gstone@outlook.com

Enter User name: gstone

Enter password: 123@

=====

Please Wait.....

Aug 28, 2022 3:24:55 PM org.hibernate.Version logVersion

INFO: HHH000412: Hibernate ORM core version 5.4.24.Final

Aug 28, 2022 3:24:55 PM

org.hibernate.annotations.common.reflection.java.JavaReflectionManager <clinit>

INFO: HCANN000001: Hibernate Commons Annotations {5.1.2.Final}

Aug 28, 2022 3:24:56 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 3:24:56 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 3:24:56 PM

org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl  
buildCreator

INFO: HHH10001001: Connection properties: {user=root, password=\*\*\*\*}

Aug 28, 2022 3:24:56 PM

org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl  
buildCreator

INFO: HHH10001003: Autocommit mode: false

Aug 28, 2022 3:24:56 PM

org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl\$Po  
oledConnections <init>

INFO: HHH000115: Hibernate connection pool size: 20 (min=1)



```
Aug 28, 2022 3:24:56 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Aug 28, 2022 3:24:57 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.User
       */ insert
       into
           USER
       (EMAIL, FIRSTNAME, LASTNAME, PASSWORD, USERNAME, UID)
       values
           (?, ?, ?, ?, ?, ?)
Aug 28, 2022 3:24:57 PM org.hibernate.engine.jdbc.spi.SqlExceptionHelper
logExceptions
WARN: SQL Error: 1062, SQLState: 23000
Aug 28, 2022 3:24:57 PM org.hibernate.engine.jdbc.spi.SqlExceptionHelper
logExceptions
ERROR: Duplicate entry '21' for key 'user.PRIMARY'
```

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

```
=====
1. Register
2. Login
3. Signout
Enter the choice:
=====
```

### **5. When User enters invalid Logins, the access is denied**

```
=====
WELCOME
TO
LOGIN MANAGEMENT SYSTEM
=====
1. Register
2. Login
3. Signout
Enter the choice:
=====
2
Enter User name: Frank
Enter password: 123

Please Wait.....
```

```
Aug 28, 2022 3:16:52 PM org.hibernate.Version logVersion
INFO: HHH000412: Hibernate ORM core version 5.4.24.Final
```

```
Aug 28, 2022 3:16:52 PM
org.hibernate.annotations.common.reflection.java.JavaReflectionManager <clinit>
INFO: HCANN000001: Hibernate Commons Annotations {5.1.2.Final}
Aug 28, 2022 3:16:53 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 3:16:53 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 3:16:53 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001001: Connection properties: {user=root, password=****}
Aug 28, 2022 3:16:53 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl
buildCreator
INFO: HHH10001003: Autocommit mode: false
Aug 28, 2022 3:16:53 PM
org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$Po
oledConnections <init>
INFO: HHH000115: Hibernate connection pool size: 20 (min=1)
Aug 28, 2022 3:16:53 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Aug 28, 2022 3:16:54 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
  u
from
  User u
where
  username=:uname
  AND password=:pass */ select
  user0_.UID as uid1_0_,
  user0_.EMAIL as email2_0_,
  user0_.FIRSTNAME as firstnam3_0_,
  user0_.LASTNAME as lastname4_0_,
  user0_.PASSWORD as password5_0_,
  user0_.USERNAME as username6_0_
from
  USER user0_
where
  user0_.USERNAME=?
  and password=?
```

=====

UserName and Password didnt match  
Access denied!!

=====

=====

1. Register
  2. Login
  3. Signout
- Enter the choice:

=====