

BANK APPLICATION

Types: There are three types of users for this application.

- 1) Admin.
- 2) Manager.
- 3) Clerk.

Users and their roles:

- 1) **Admin:** Among all the users, Admin can perform all actions on an account. The actions include creating new account, create new user for the application, Suspend a account and delete a account.
- 2) **Manager:** Manager is also an user who has limited actions. The actions include update account, Transfer fund that require approval.
- 3) **Clerk:** Clerk is the low tier user who can only perform action fund transfer and get transaction history.

Actions:

- 1) **Login:** This is used to login for particular person. If login fails he/she will be redirected to home page.
- 2) **AddUser:** This action allows us to add user. The inputs are username, password, user type, address, phone number, email, aadhar card and pan card.
- 3) **Deposit:** This action allows us to deposit money in user account. It takes parameters like account number and amount to be deposited.
- 4) **Withdraw:** This action allows the user to withdraw money from his account. It takes two parameters like account number and amount to withdraw.
- 5) **Fund Transfer:** This action allows an user to transfer fund from one account to another. It takes 3 parameters from account number, to account number and amount to transfer.
- 6) **AddAccount:** It is similar to add user but it takes an extra input called user type which indicates whether the user is an admin, manager or clerk.
- 7) **ShowAllAccounts:** Show all accounts is used to display all the accounts in the accounts table.
- 8) **ShowAllUsers:** Show all users is used to display all the users in the users table which include admin, manager or clerk.
- 9) **UpdateAccount/UpdateUser:** Used to update details for an user or an account.

Validations:

Account number: Account number is validated by checking whether it is already existing in database or not.

Withdraw: The amount for withdraw will also be validated since it should always be less than the current balance.

Fund Transfer: Fund transfer also requires validation for both account numbers and money to be transferred.

❖ Validations also include not null(which indicates that the details should be filled), should enter number(should enter number only), should enter string(should enter string only) etc.

Updating User/Account:

While updating user/account only specific data can be updated. The data are Address, Phone and Email.

❖ Aadhar card and Pan card cannot be updated for an user/account.
❖ The type of user can also be changed by the admin.

SQL PART:

```
mysql: [Warning] C:\Program Files\MySQL\MySQL Server 5.7\bin\mysql.exe: ignoring option '--no-beep' due to invalid value "
```

```
Enter password: ****
```

```
Welcome to the MySQL monitor. Commands end with ; or \g.
```

```
Your MySQL connection id is 6
```

```
Server version: 5.7.30-log MySQL Community Server (GPL)
```

Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> use bankapp;
```

```
Database changed
```

```
mysql> show tables;
```

```
+-----+  
| Tables_in_bankapp |  
+-----+  
| account_table     |  
| bank_user_table   |  
| transaction_table |  
+-----+
```

```
3 rows in set (0.07 sec)
```

```
mysql> select *from bank_user_table;
```

```
Empty set (0.09 sec)
```

```
mysql> select *from account_table;
```

```
Empty set (0.06 sec)
```

```
mysql> select *from transaction_table;
```

```
Empty set (0.02 sec)
```

```
mysql> desc bank_user_table;
```

```
+-----+-----+-----+-----+-----+  
| Field      | Type           | Null | Key | Default | Extra          |  
+-----+-----+-----+-----+-----+  
| id         | int(11)        | NO   | PRI | NULL    | auto_increment |  
| password   | varchar(255)  | NO   |     | NULL    |                |  
| userType   | varchar(255)  | YES  |     | NULL    |                |  
| username   | varchar(255)  | NO   | UNI | NULL    |                |  
+-----+-----+-----+-----+-----+
```

```
4 rows in set (0.09 sec)
```

```
mysql> insert into bank_user_table values(1,"nihitha","ADMIN","nihitha");
```

```
Query OK, 1 row affected (0.20 sec)
```

```
mysql> insert into bank_user_table values(2,"mahadas","ADMIN","anisha");
Query OK, 1 row affected (0.11 sec)
```

```
mysql> insert into bank_user_table values(2,"geetha","ADMIN","gayatri");
ERROR 1062 (23000): Duplicate entry '2' for key 'PRIMARY'
mysql> insert into bank_user_table values(3,"geetha","ADMIN","gayatri");
Query OK, 1 row affected (0.06 sec)
```

```
mysql> insert into bank_user_table values(4,"suppu","ADMIN","devaki");
Query OK, 1 row affected (0.09 sec)
```

```
mysql> show tables;
+-----+
| Tables_in_bankapp |
+-----+
| account_table      |
| bank_user_table    |
| transaction_table  |
+-----+
3 rows in set (0.00 sec)
```

```
mysql> desc account_table;
+-----+-----+-----+-----+-----+
| Field          | Type           | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+
| accountId      | int(11)        | NO   | PRI | NULL    | auto_increment |
| aadharCard     | varchar(255)   | NO   | UNI | NULL    |                |
| accountType    | varchar(255)   | YES  |      | NULL    |                |
| address         | varchar(255)   | NO   |      | NULL    |                |
| balance         | double          | YES  |      | NULL    |                |
| birthDate       | date            | NO   |      | NULL    |                |
| email           | varchar(255)   | NO   | UNI | NULL    |                |
| name            | varchar(255)   | NO   |      | NULL    |                |
```

```

| panNumber | varchar(255) | NO   | UNI | NULL      |
| phone     | varchar(255) | NO   | UNI | NULL      |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)

```

```

mysql> insert into account_table values(5,"rachana","EMPLOYEE","asmitha");
ERROR 1136 (21S01): Column count doesn't match value count at row 1
mysql> insert into bank_user_table values(5,"rachana","EMPLOYEE","asmitha");
Query OK, 1 row affected (0.09 sec)

```

```

mysql> select * from bank_user_table;
+----+-----+-----+-----+
| id | password | userType | username |
+----+-----+-----+-----+
| 1 | nihitha | ADMIN    | nihitha  |
| 2 | mahadas | ADMIN    | anisha   |
| 3 | geetha  | ADMIN    | gayatri  |
| 4 | suppu   | ADMIN    | devaki   |
| 5 | rachana | EMPLOYEE | asmitha  |
+----+-----+-----+-----+
5 rows in set (0.00 sec)

```

```

mysql> desc transaction_table;
+-----+-----+-----+-----+-----+
| Field          | Type       | Null | Key | Default | Extra           |
+-----+-----+-----+-----+-----+
| txId          | int(11)    | NO   | PRI | NULL    | auto_increment |
| amount         | double     | YES  |     | NULL    |                 |
|               |
| timestamp     | datetime(6) | YES  |     | NULL    |                 |
|               |
| txInfo        | varchar(255)| YES  |     | NULL    |                 |
|               |

```

```

| txType          | varchar(255) | YES   |       | NULL    |
|
| from_account_Id_fk | int(11)      | YES   | MUL  | NULL    |
|
| to_account_Id_fk | int(11)      | YES   | MUL  | NULL    |
|
+-----+-----+-----+-----+

```

7 rows in set (0.17 sec)

mysql> select *from bank_user_table;

```

+-----+-----+-----+
| id | password | userType | username |
+-----+-----+-----+
| 1 | nihitha | ADMIN    | nihitha  |
| 2 | mahadas  | ADMIN    | anisha   |
| 3 | geetha   | ADMIN    | gayatri  |
| 4 | suppu    | ADMIN    | devaki   |
| 5 | rachana  | EMPLOYEE | asmitha  |
+-----+-----+-----+

```

5 rows in set (0.09 sec)

mysql> select *from account_table;

```

+-----+-----+-----+-----+-----+-----+
+-----+
| accountId | aadharCard | accountType | address | balance | birthDate | email
| name      | panNumber | phone      |         |
+-----+-----+-----+-----+-----+-----+
+-----+
| 1 | 123456987 | CURRENT    | rajam   | 1000 | 2000-10-09 |
| abc@gmail.com | nihitha | abs1234   | 9573975171 |
+-----+-----+-----+-----+-----+-----+
+-----+

```

1 row in set (0.00 sec)

mysql> select *from transaction_table;

```

+-----+-----+-----+-----+
| txId | amount | timestamp | txInfo
+-----+-----+-----+
| txType | from_account_Id_fk | to_account_Id_fk |
+-----+-----+-----+
| 1 | 500 | 2020-12-18 22:06:34.877000 | withdraw from 2 deposit in 1 |
TRANSFER | 2 | 1 |
+-----+-----+-----+
-----+
1 row in set (0.00 sec)

```

```

mysql> select *from transaction_table;
+-----+-----+-----+-----+
| txId | amount | timestamp | txInfo
+-----+-----+-----+
| txType | from_account_Id_fk | to_account_Id_fk |
+-----+-----+-----+
| 1 | 500 | 2020-12-18 22:06:34.877000 | withdraw from 2 deposit in 1 |
TRANSFER | 2 | 1 |
| 2 | 2000 | 2020-12-18 23:35:42.618000 | withdraw from 3 |
WITHDRAW | 3 | 3 |
| 3 | 2000 | 2020-12-18 23:42:15.799000 | deposit in 2 |
DEPOSIT | 2 | 2 |
+-----+-----+-----+-----+
-----+
3 rows in set (0.05 sec)

```

```

mysql> select *from account_table;
+-----+-----+-----+-----+-----+-----+
| accountId | aadharCard | accountType | address | balance | birthDate | email
| name | panNumber | phone |
+-----+-----+-----+-----+-----+-----+

```

```
+-----+-----+-----+-----+-----+
-----+-----+
|      1 | 123456987      | CURRENT      | rajam       | 1500 |
| 2000-10-09 | abc@gmail.com | nihitha | abs1234 | 9573975171 |
|      2 | 124563789      | CURRENT      | hyderabad | 11500 |
| 2020-11-10 | acbgf@gmail.com | shiva    | aswd1234 | 9856742332 |
|      3 | 7584932663536 | SAVINGS      | vizag       | 3200 |
| 1999-12-20 | anish@gmail.com | lucky     | hhn1245   | 9856741230 |
+-----+-----+-----+-----+-----+
-----+-----+
```

3 rows in set (0.00 sec)

mysql> select *from bank_user_table;

```
+-----+-----+-----+
| id | password | userType | username |
+-----+-----+-----+
| 1 | nihitha | ADMIN    | nihitha  |
| 2 | mahadas | ADMIN    | anisha   |
| 3 | geetha  | ADMIN    | gayatri  |
| 4 | suppu   | ADMIN    | devaki   |
| 5 | rachana | EMPLOYEE | asmitha |
+-----+-----+-----+
```

5 rows in set (0.03 sec)

mysql> select *from account_table;

```
+-----+-----+-----+-----+-----+
-----+-----+
| accountId | aadharCard      | accountType | address      | balance | birthDate  |
| email        | name        | panNumber | phone      |         |
+-----+-----+-----+-----+-----+
-----+-----+
|      1 | 123456987      | CURRENT      | rajam       | 2700 |
| 2000-10-09 | abc@gmail.com | nihitha | abs1234 | 9573975171 |
+-----+-----+-----+
```

	2	124563789	CURRENT	hyderabad	10300	
2020-11-10	acbgf@gmail.com	shiva	aswd1234	9856742332		
	3	7584932663536	SAVINGS	vizag	5200	
1999-12-20	anish@gmail.com	lucky	hhn1245	9856741230		
	4	12304569870	SAVINGS	chennai	5000	
2020-02-12	m.nhigb@gmail.com	pandu	mnm12456	8529637412		
	5	1236547890	CURRENT	bhimavaram	5263	
1998-09-10	ammu@gmail.com	ammu	nhj142635	415263085		

5 rows in set (0.00 sec)

mysql> select *from transaction_table;						
txId	amount	timestamp	txInfo	txType	from_Account_Id_fk	to_Account_Id_fk
1	500	2020-12-18 22:06:34.877000	withdraw from 2 deposit in 1	TRANSFER	2	1
2	2000	2020-12-18 23:35:42.618000	withdraw from 3	WITHDRAW	3	3
3	2000	2020-12-18 23:42:15.799000	deposit in 2	DEPOSIT	2	2
4	1200	2020-12-19 00:07:29.890000	withdraw from 2 deposit in 1	TRANSFER	2	1
5	2000	2020-12-19 00:08:30.628000	deposit in 3	DEPOSIT	3	3

5 rows in set (0.00 sec)

Output:

LOGIN PAGE:

The screenshot shows the Eclipse IDE interface with the Banking project open in the Project Explorer. The browser window displays the 'WELCOME TO ONLINE BANKING' page at <http://localhost:8080/Banking/loginuser.jsp?userTypes=ADMIN&userTypes=EMPLOYEE>. The page has fields for 'Enter username' and 'Enter password' with a 'Submit Query' button. Below the browser is the Eclipse Console window showing Tomcat v8.5 Server output.

```
account0_.aadharCard as aadharLaz_0_,  
account0_.accountType as accountT3_0_,  
account0_.address as address4_0_,  
account0_.balance as balance5_0_,  
account0_.birthDate as birthDat6_0_,  
account0_.email as email7_0_,
```

ADMIN PAGE:

The screenshot shows the Eclipse IDE interface with the Banking project open in the Project Explorer. The browser window displays the 'Welcome User nihitha [logout](#)' page at <http://localhost:8080/Banking/userdetails?userTypes=ADMIN&userTypes=EMPLOYEE>. The page lists users with columns: ID, UserName, Password, UserType, Update, and Delete. Below the table are links for 'add account', 'add user transfer', and 'transactions account details'. The Eclipse Console window shows Tomcat v8.5 Server output.

ID	UserName	Password	UserType	Update	Delete
1	nihitha	nihitha	ADMIN	update user	delete user
2	anisha	mahadas	ADMIN	update user	delete user
3	gayatri	geetha	ADMIN	update user	delete user
4	devaki	suppu	ADMIN	update user	delete user
5	asmitha	rachana	EMPLOYEE	update user	delete user

```
user0_.userType as userType3_1_,  
user0_.username as username4_1_  
from  
bank_user_table user0_
```

WELCOME

Enter name	<input type="text" value="lucky"/>
Enter balance	<input type="text" value="5200"/>
Enter address	<input type="text" value="vizag"/>
Enter phone	<input type="text" value="9856741230"/>
Enter email	<input type="text" value="anish@gmail.com"/>
Enter AadharCard	<input type="text" value="7584932663536"/>
Enter birthDate	<input type="text" value="20/12/1999"/>
Enter PanNumber	<input type="text" value="hhn1245"/>
Select account Type	<input checked="" type="radio"/> SAVINGS <input type="radio"/> CURRENT

Submit Query

Tomcat v8.5 Server at localhost [Apache Tomcat] C:\Program Files (x86)\Java\jdk-13.0.2\bin\javaw.exe (18-Dec-2020, 4:12:49 pm)

```
user0_.password as password2_1_,  
user0_.userType as userType3_1_,  
user0_.username as username4_1_  
from  
account_table account0_
```

Welcome user nithitha [logout](#)

AccountId	Name	Balance	Address	Phone	Email	AadharCard	BirthDate	PanNumber	AccountType
1	nithitha	1500.0	rajam	9573975171	abc@gmail.com	123456987	09/10/2000	abs1234	CURRENT
2	shiva	9500.0	hyderabad	9856742332	acbgf@gmail.com	124563789	10/11/2020	aswd1234	CURRENT
3	lucky	5200.0	vizag	9856741230	anish@gmail.com	7584932663536	20/12/1999	hhn1245	SAVINGS

[add account](#) [add user](#) [transfer transactions](#)

Tomcat v8.5 Server at localhost [Apache Tomcat] C:\Program Files (x86)\Java\jdk-13.0.2\bin\javaw.exe (18-Dec-2020, 4:12:49 pm)

```
from  
account_table account0_
```

WITHDRAW:

HCLTRAINING - http://localhost:8080/Banking/ - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Project Explorer Banking

- Account
- Accountdetails
- areasofshapes
- src
 - main
 - test
 - java
 - resources
- target
 - m2e-wtp
 - web-resources
 - META-INF
 - maven
 - com.banking
 - banking
 - pom.properties
 - pom.xml
- pom.xml
- CalendarAPI
- carServices
- Collections1
- Collections10
- Collections11
- Collections12
- Collections13
- Collections14
- Collections15
- Collections16
- Collections17
- Collections18
- Collections19
- Collections20
- Collections21
- Collections22
- Collections23
- Collections24
- Collections25
- Collections26
- Collections27
- Collections28

Done

http://localhost:8080/Banking/withdraw

Welcome

Enter account number: 3

Enter amount to be withdrawn: 2000

transfer amount

Markers Properties Servers Data Source Explorer Snippets Console Git Repositories

Tomcat v8.5 Server at localhost [Apache Tomcat] C:\Program Files (x86)\Java\jdk-13.0.2\bin\javaw.exe (18-Dec-2020, 4:12:49 pm)

```
from
account_table account0_
```

11:35 PM ENG 18-12-2020

HCLTRAINING - http://localhost:8080/Banking/ - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Project Explorer Banking

- Account
- Accountdetails
- areasofshapes
- src
 - main
 - test
 - java
 - resources
- target
 - m2e-wtp
 - web-resources
 - META-INF
 - maven
 - com.banking
 - banking
 - pom.properties
 - pom.xml
- pom.xml
- CalendarAPI
- carServices
- Collections1
- Collections10
- Collections11
- Collections12
- Collections13
- Collections14
- Collections15
- Collections16
- Collections17
- Collections18
- Collections19
- Collections20
- Collections21
- Collections22
- Collections23
- Collections24
- Collections25
- Collections26
- Collections27
- Collections28

Done

http://localhost:8080/Banking/accountdetails?accountTypes=SAVINGS&accountTypes=CURRENT

Welcome user nithitha [logout](#)

AccountId	Name	Balance	Address	Phone	Email	AadharCard	BirthDate	PanNumber	AccountType
1	nithitha	1500.0	rajam	9573975171	abe@gmail.com	123456987	09/10/2000	abs1234	CURRENT
2	shiva	9500.0	hyderabad	9856742332	acbgf@gmail.com	124563789	10/11/2020	aswd1234	CURRENT
3	lucky	3200.0	vizag	9856741230	anish@gmail.com	7584932663536	20/12/1999	hhn1245	SAVINGS

[add account](#) [add user](#) [transfer transactions](#)

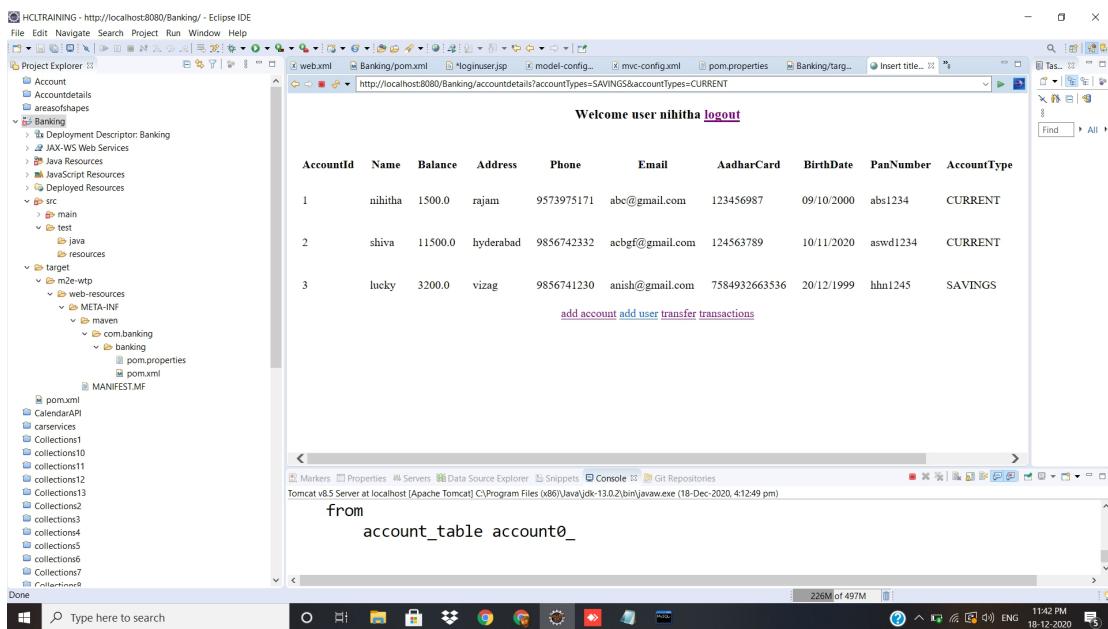
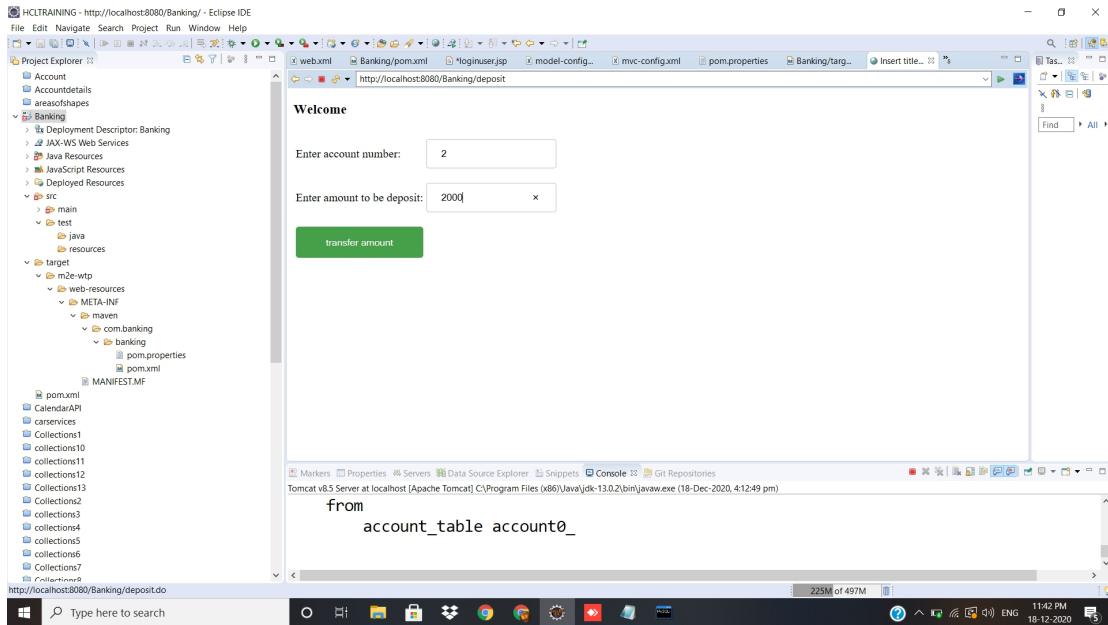
Markers Properties Servers Data Source Explorer Snippets Console Git Repositories

Tomcat v8.5 Server at localhost [Apache Tomcat] C:\Program Files (x86)\Java\jdk-13.0.2\bin\javaw.exe (18-Dec-2020, 4:12:49 pm)

```
from
account_table account0_
```

11:35 PM ENG 18-12-2020

DEPOSIT:



HCLTRAINING - http://localhost:8080/Banking/ - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Project Explorer Banking

- src
 - main
 - java
 - com
 - bankapp
 - model
 - dao
 - service
 - AccountService.java
 - AccountServiceImpl.java
 - TransactionEntryService.java
 - TransactionEntryServiceImpl.java
 - UserService.java
 - UserServiceImpl.java
 - resources
 - webapp
 - resources
 - WEB-INF
 - test
 - target m2e-wtp
 - META-INF
 - maven
 - com banking
 - MANIFEST.MF

web.xml Banking/pom.xml mvc-config.xml pom.properties Banking/targ... HTTP Status... MANIFEST.MF Insert title...

Welcome User asmitha logout

ID	UserName	Password	UserType	Update	Delete
1	niihittha	niihittha	ADMIN		
2	anisha	mahadas	ADMIN		
3	gayatri	geetha	ADMIN		
4	devaki	suppu	ADMIN		
5	asmitha	rachana	EMPLOYEE		

[add account](#)

Markers Properties Servers Data Source Explorer Snippets Console Git Repositories Tomcat v8.5 Server at localhost [Apache Tomcat] C:\Program Files (x86)\Java\jdk-13.0.2\bin\javaw.exe (18-Dec-2020, 4:12:49 pm) from bank_user_table user0_

179M of 497M 1159 PM ENG 18-12-2020

HCLTRAINING - http://localhost:8080/Banking/ - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Project Explorer Banking

- src
 - main
 - java
 - com
 - bankapp
 - model
 - dao
 - service
 - AccountService.java
 - AccountServiceImpl.java
 - TransactionEntryService.java
 - TransactionEntryServiceImpl.java
 - UserService.java
 - UserServiceImpl.java
 - resources
 - webapp
 - resources
 - WEB-INF
 - test
 - target m2e-wtp
 - META-INF
 - maven
 - com banking
 - MANIFEST.MF

web.xml Banking/pom.xml mvc-config.xml pom.properties Banking/targ... HTTP Status... MANIFEST.MF Insert title...

Welcome user niihittha logout

AccountId	Name	Balance	Address	Phone	Email	AadharCard	BirthDate	PanNumber	AccountType
1	niihittha	2700.0	rajam	9573975171	abc@gmail.com	123456987	09/10/2000	abs1234	CURRENT
2	shiva	10300.0	hyderabad	9856742332	acbgf@gmail.com	124563789	10/11/2020	aswd1234	CURRENT
3	lucky	5200.0	vizag	9856741230	anish@gmail.com	7584932663536	20/12/1999	hhn1245	SAVINGS
4	pandu	5000.0	chennai	8529637412	m.nhigb@gmail.com	12304569870	12/02/2020	mmu12456	SAVINGS
5	ammu	5263.0	bhimavaram	415263085	ammu@gmail.com	1236547890	10/09/1998	nhj142635	CURRENT

[add account](#) [add user](#) [transfer transactions](#)

Markers Properties Servers Data Source Explorer Snippets Console Git Repositories Tomcat v8.5 Server at localhost [Apache Tomcat] C:\Program Files (x86)\Java\jdk-13.0.2\bin\javaw.exe (18-Dec-2020, 4:12:49 pm)

at java.base/java.lang.Thread.run(Thread.java:830)

174M of 497M 12:09 AM ENG 19-12-2020

```

MySQL 5.7 Command Line Client
mysql: [Warning] C:\Program Files\MySQL\MySQL Server 5.7\bin\mysql.exe: ignoring option '--no-beep' due to invalid value ''
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 48
Server version: 5.7.30-log MySQL Community Server (GPL)

Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use bankapp;
Database changed
mysql> show tables;
+-----+
| Tables_in_bankapp |
+-----+
| account_table      |
| bank_user_table    |
| transaction_table  |
+-----+
3 rows in set (0.71 sec)

mysql> select * from account_table;
+-----+
| accountId | aadharCard | accountType | address | balance | birthDate | email | name | panNumber | phone |
+-----+
| 1 | 123456987 | CURRENT | rajam | 2700 | 2000-10-09 | abc@gmail.com | nihitha | abs1234 | 9573975171 |
| 2 | 124563789 | CURRENT | hyderabad | 10300 | 2020-11-10 | abcdef@gmail.com | shiva | aswd1234 | 9856742332 |
| 3 | 7584932663536 | SAVINGS | vizag | 5200 | 1999-12-20 | anish@gmail.com | lucky | hhn1245 | 9856741230 |
| 4 | 12304569870 | SAVINGS | chennai | 5000 | 2020-02-12 | m.nihit@gmail.com | pandu | mm12456 | 8529637412 |
| 5 | 1236547890 | CURRENT | bhimavaram | 5263 | 1998-09-10 | ammu@gmail.com | ammu | nhj142635 | 415263085 |
+-----+
5 rows in set (0.17 sec)

mysql> select* from bank_user_table;
+-----+
| id | password | userType | username |
+-----+
| 1 | nihitha | ADMIN | nihitha |
| 2 | mahadas | ADMIN | anisha |
| 3 | geetha | ADMIN | gayatri |
| 4 | suppu | ADMIN | devaki |
| 5 | rachana | EMPLOYEE | asmitha |
+-----+
5 rows in set (0.03 sec)

MySQL 5.7 Command Line Client
+-----+
| 4 | 12304569870 | SAVINGS | chennai | 5000 | 2020-02-12 | m.nihit@gmail.com | pandu | mm12456 | 8529637412 |
| 5 | 1236547890 | CURRENT | bhimavaram | 5263 | 1998-09-10 | ammu@gmail.com | ammu | nhj142635 | 415263085 |
+-----+
5 rows in set (0.17 sec)

mysql> select* from bank_user_table;
+-----+
| id | password | userType | username |
+-----+
| 1 | nihitha | ADMIN | nihitha |
| 2 | mahadas | ADMIN | anisha |
| 3 | geetha | ADMIN | gayatri |
| 4 | suppu | ADMIN | devaki |
| 5 | rachana | EMPLOYEE | asmitha |
+-----+
5 rows in set (0.03 sec)

mysql> select *from transaction_table;
+-----+
| txId | amount | timestamp | txInfo | txType | from_account_Id_fk | to_account_Id_fk |
+-----+
| 1 | 500 | 2020-12-18 22:06:34.877000 | withdraw from 2 deposit in 1 | TRANSFER | 2 | 1 |
| 2 | 2000 | 2020-12-18 23:35:42.618000 | withdraw from 3 | WITHDRAW | 3 | 3 |
| 3 | 2000 | 2020-12-18 23:42:15.799000 | deposit in 2 | DEPOSIT | 2 | 2 |
| 4 | 1200 | 2020-12-19 00:07:29.896000 | withdraw from 2 deposit in 1 | TRANSFER | 2 | 1 |
| 5 | 2000 | 2020-12-19 00:08:30.628000 | deposit in 3 | DEPOSIT | 3 | 3 |
+-----+
5 rows in set (0.72 sec)

mysql>

```