

TEAM MEMBERS:

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PROJECT REPORT FOR NJ_63I BANK

ER DIAGRAM FOR NJ_63I BANK:

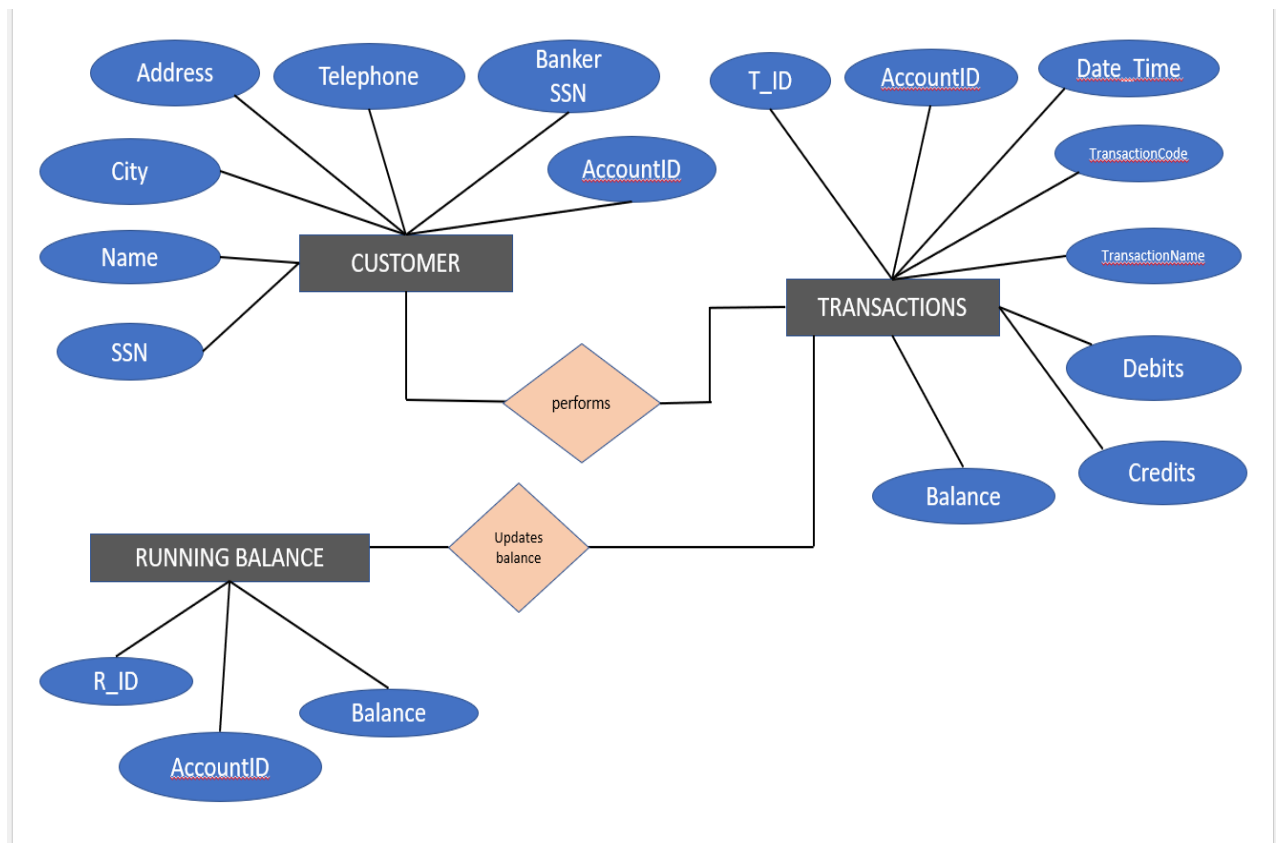


TABLE DATA :

For creating our tables for the database, we used “mysql” in phpMyAdmin.
Following are the details about the tables created in the database.

customer :

SSN- INT(10), Primary key

Name- varchar(35)

City- varchar(15)

Address- varchar(10)

Telephone- varchar(10)

BankerSSN- varchar(10)

AccountID- varchar(10)

customer and transactions have 1:M relationship (one customer from an account can perform many transactions)

transactions :

T_ID - INT(10), Primary key, AUTO_INCREMENT

AccountID - varchar(10)

Date_Time - datetime

TransactionCode - varchar(10)

TransactionName - varchar(10)

Debits- float

Credits- float

Balance- float

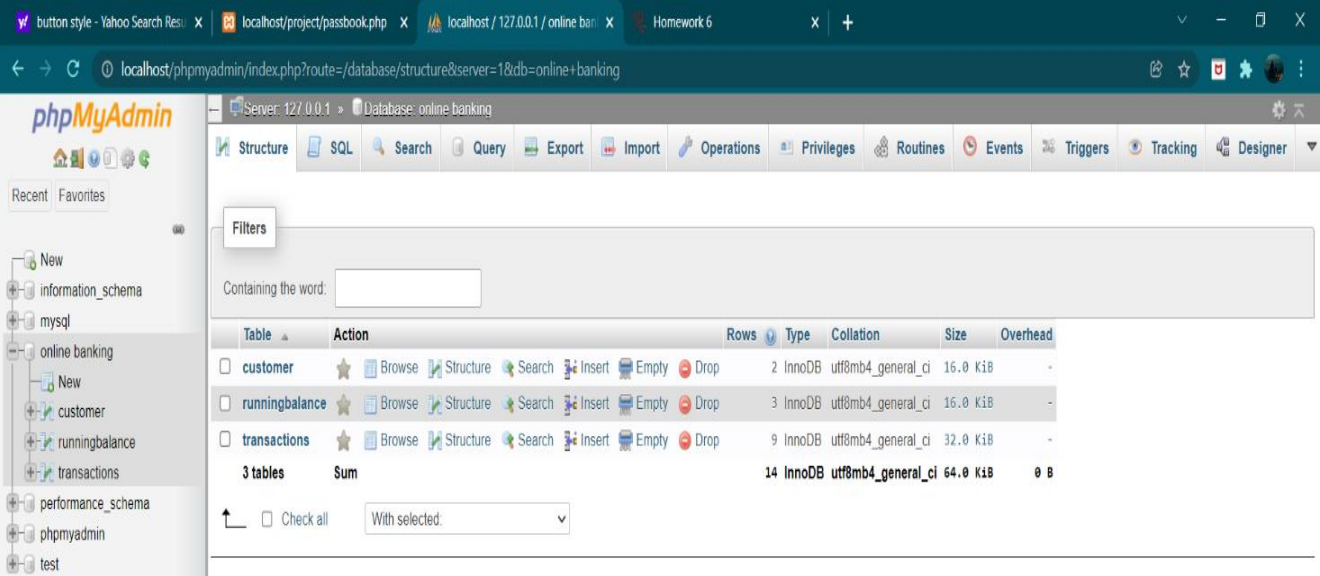
transactions and runningbalance have 1:M relationship (many transactions will only have one running balance updates)

runningbalance :

R_ID - int(10), Primary Key, AUTO_INCREMENT

AccountID - varchar(10)

Balance - float



The screenshot shows the phpMyAdmin interface for a database named 'online banking'. The left sidebar shows the database structure with 'online banking' selected. The main panel displays the 'Structure' tab for the 'online banking' database. It lists three tables: 'customer', 'runningbalance', and 'transactions'. Each table has a 'Browse' icon, a 'Structure' icon, a 'Search' icon, an 'Insert' icon, an 'Empty' icon, and a 'Drop' icon. The table 'customer' has 2 rows, 'runningbalance' has 3 rows, and 'transactions' has 9 rows. The total for all tables is 14 rows. The table 'runningbalance' is highlighted in blue.

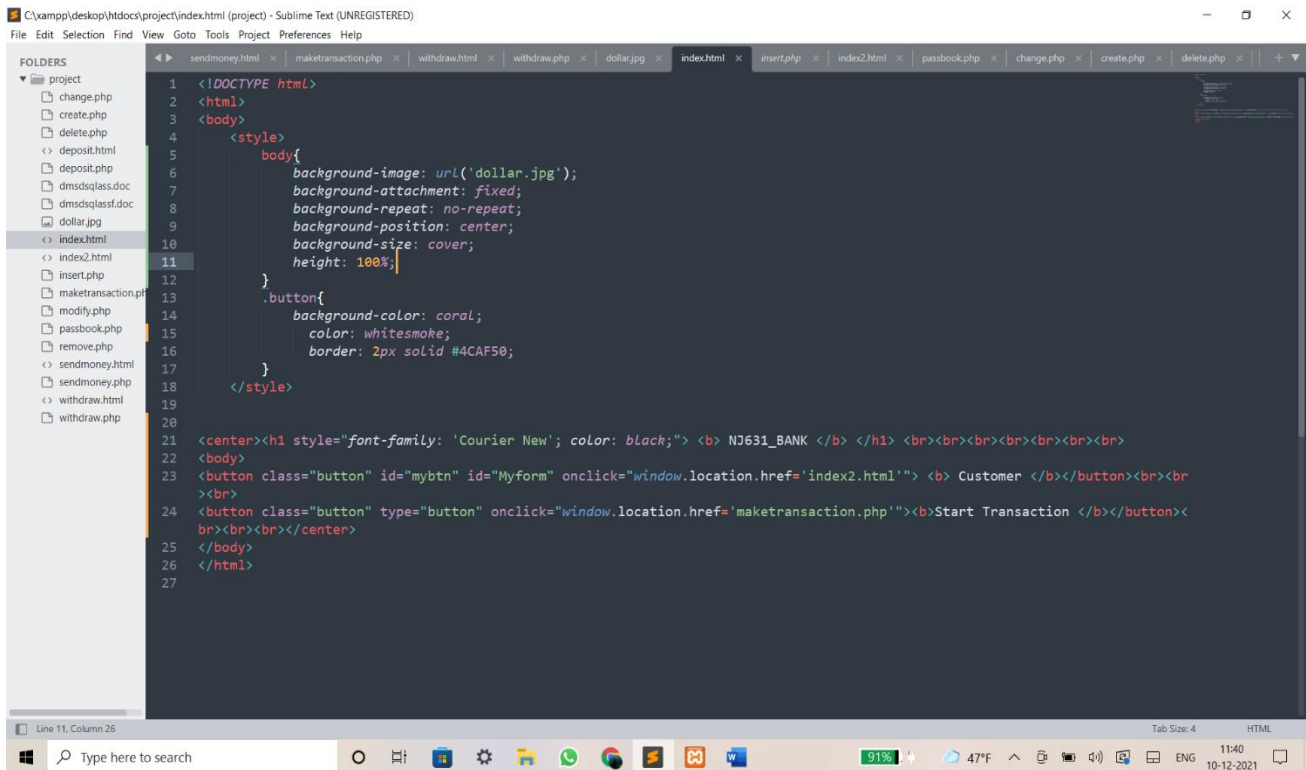
Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> customer		2	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> runningbalance		3	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> transactions		9	InnoDB	utf8mb4_general_ci	32.0 KiB	-
3 tables	Sum	14	InnoDB	utf8mb4_general_ci	64.0 KiB	0 B

Filters
Containing the word:

☐ Check all With selected:

The above figure shows how the structure of the tables in the database looks like, these are the tables used for the NJ_63I Bank's online banking application.

After this, we worked on the front end of the application ie. creating the webpages for which we used HTML.



```
1 <!DOCTYPE html>
2 <html>
3 <body>
4   <style>
5     body{
6       background-image: url('dollar.jpg');
7       background-attachment: fixed;
8       background-repeat: no-repeat;
9       background-position: center;
10      background-size: cover;
11      height: 100%;
12    }
13    .button{
14      background-color: coral;
15      color: whitesmoke;
16      border: 2px solid #4CAF50;
17    }
18  </style>
19
20
21 <center><h1 style="font-family: 'Courier New'; color: black;"> <b> NJ631_BANK </b> </h1> <br><br><br><br><br><br><br>
22 <body>
23 <button class="button" id="mybtn" id="Myform" onclick="window.location.href='index2.html'"> <b> Customer </b></button><br><br>
24 <button class="button" type="button" onclick="window.location.href='maketransaction.php'"><b>Start Transaction </b></button><br><br><br></center>
25 </body>
26 </html>
27
```

We have used HTML as our front-end of the Bank Application and we've used php as middleware for connecting the front-end with the back-end. And also, we made a connection between our database to XAMPP control panel to fetch the data which we have stored in real-time.

BANK APPLICATION DETAILS :

Fig:1-

This is the home page of the NJ_631 Bank. It consists of two banking options like Customer, Start transaction.

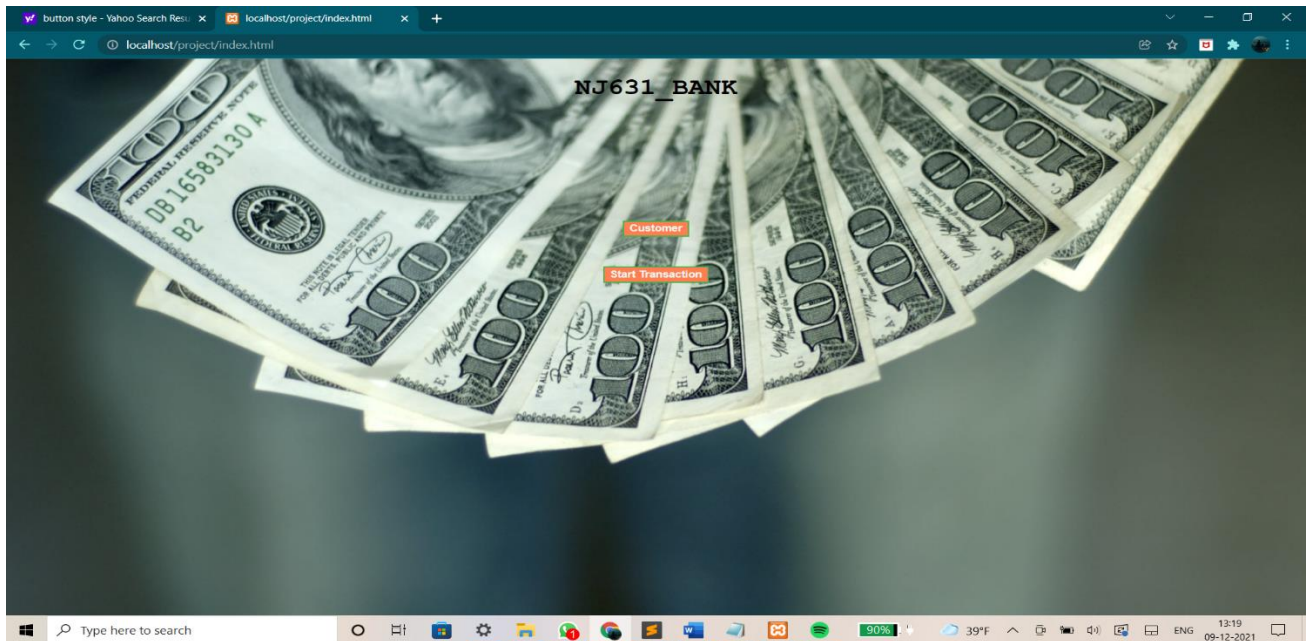


Fig:2-

When a banker clicks on customer, it will redirect to the page displaying Create New Customer, Modify Customer, Delete Customer, Passbook, and a Cancel button to go back to home page of the NJ_631 Bank

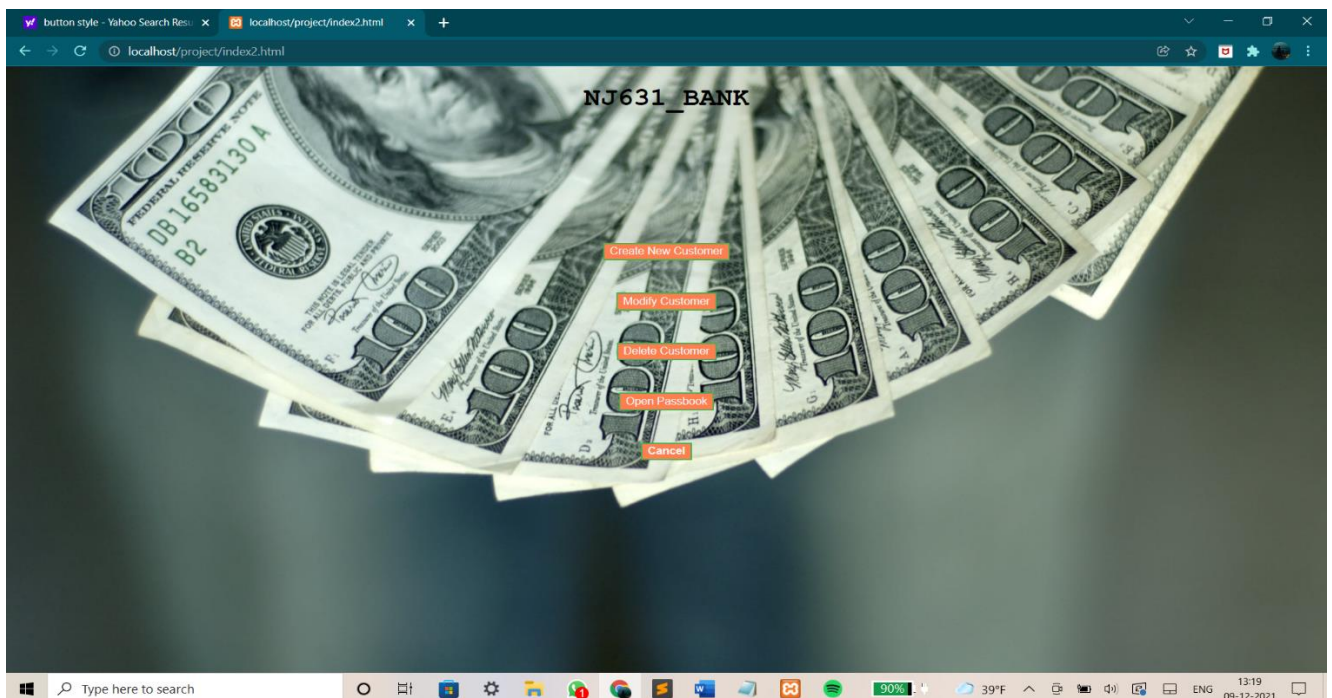


Fig:3-

When a banker wants to enter new customer details, a form will be displayed after clicking on create new customer with all the customer details required.

The screenshot shows a web browser window with the address bar displaying 'localhost/project/create.php'. The page title is 'Create Customer'. The form contains the following fields: 'Customer SSN' (placeholder: Enter customer's SSN), 'Customer Name' (placeholder: Enter customer Name), 'Phone Number' (placeholder: Enter customer phone num), 'City' (placeholder: Enter city), 'Flat no' (placeholder: Enter flatno, streetno), 'Banker SSN' (placeholder: Enter Banker SSN), 'Account no' (placeholder: Enter Account no), and 'Initial Deposit Amount' (placeholder: Enter deposit amount). At the bottom of the form are two buttons: 'Cancel' and 'Submit'. The Windows taskbar at the bottom shows the search bar, task view, and various application icons, with the system clock indicating 13:19 on 09-12-2021.

Fig4:-

If banker wants to modify the existing customer details banker clicks on Modify customer and then a form appears. To modify the customer details the banker needs to give the Customer SSN details in order to modify the customer details such as Name, Phone number, City and etc.

The screenshot shows a web browser window with the address bar displaying 'localhost/project/modify.php'. The page title is 'Modify Customer'. The form contains the following fields: 'SSN' (placeholder: Enter customer SSN), 'First Name' (placeholder: Enter customer name), 'Phone Number' (placeholder: Enter customer mobilenum), 'City' (placeholder: Enter city), 'Flat no' (placeholder: Enter flatno), and 'Banker SSN' (placeholder: Enter Banker SSN). At the bottom of the form are two buttons: 'Cancel' and 'Save'. The Windows taskbar at the bottom shows the search bar, task view, and various application icons, with the system clock indicating 13:19 on 09-12-2021.

Fig:5-

In order to completely remove the existing customer from the database banker needs to use the delete customer option on homepage and then by providing the Customer's SSN in the redirected page.

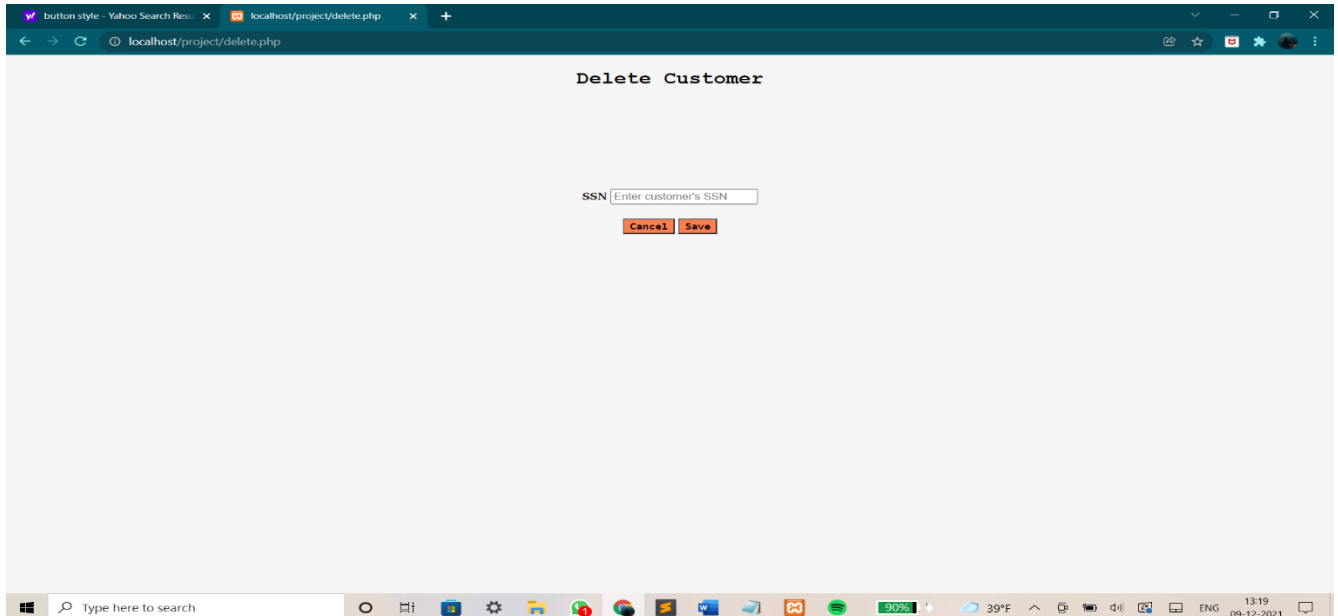
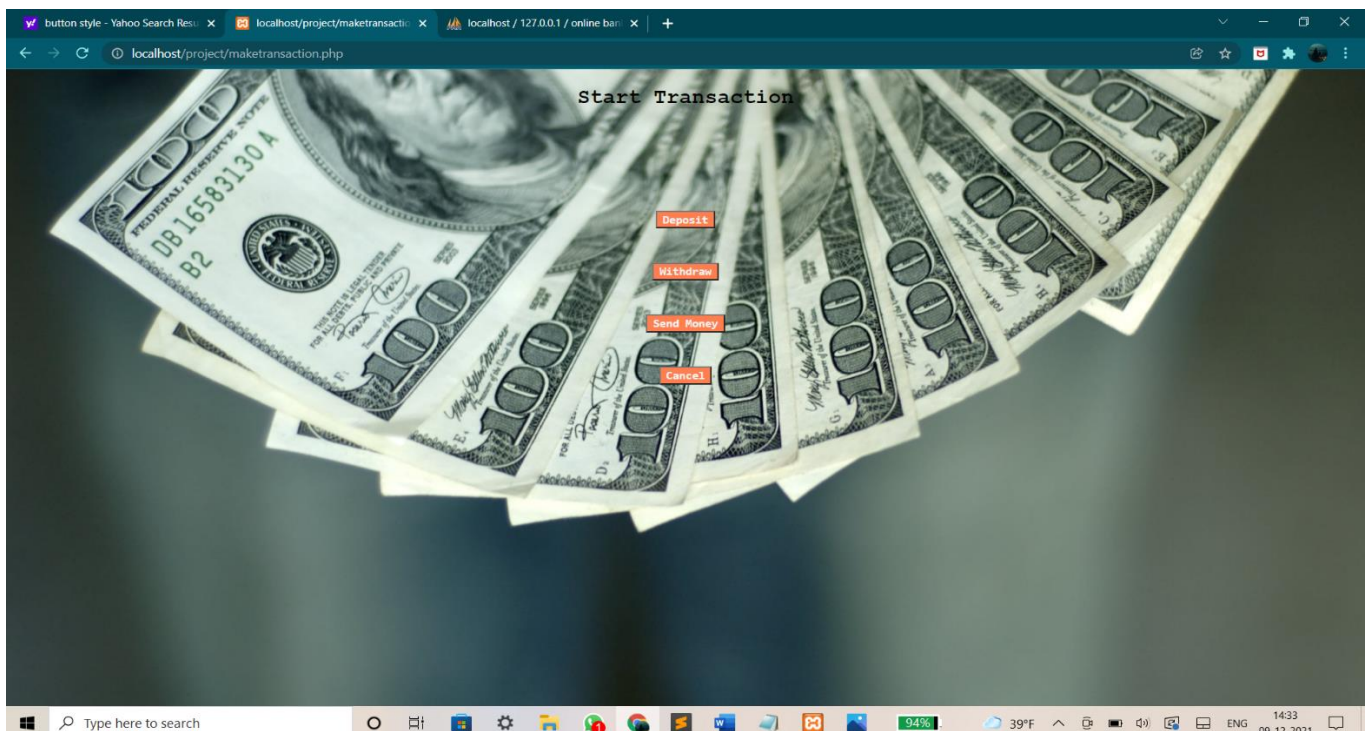


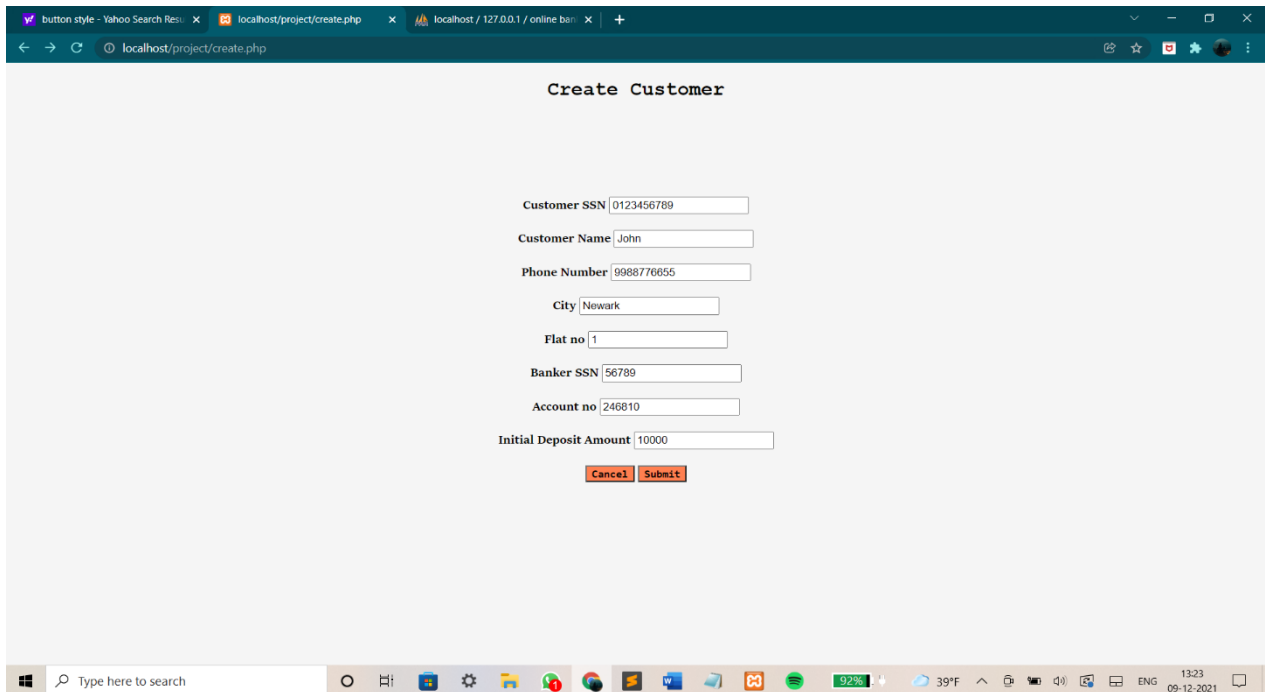
Fig:6-

When the banker wants to perform a transaction, user selects on the start transaction button and the banker has various operations to perform transactions such as send, withdraw, and deposit money.



UPDATION OF DATA IN DATABASE:

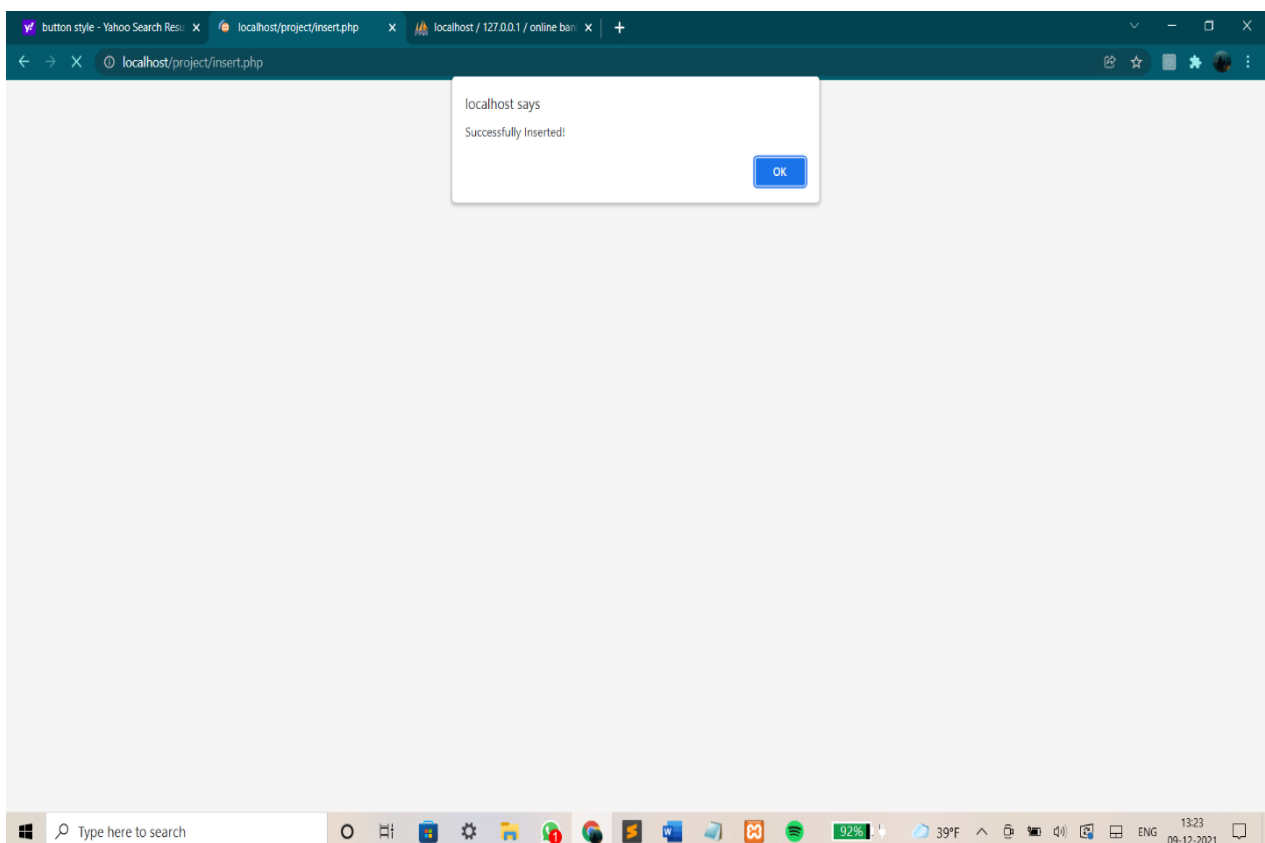
Creating a new customer:

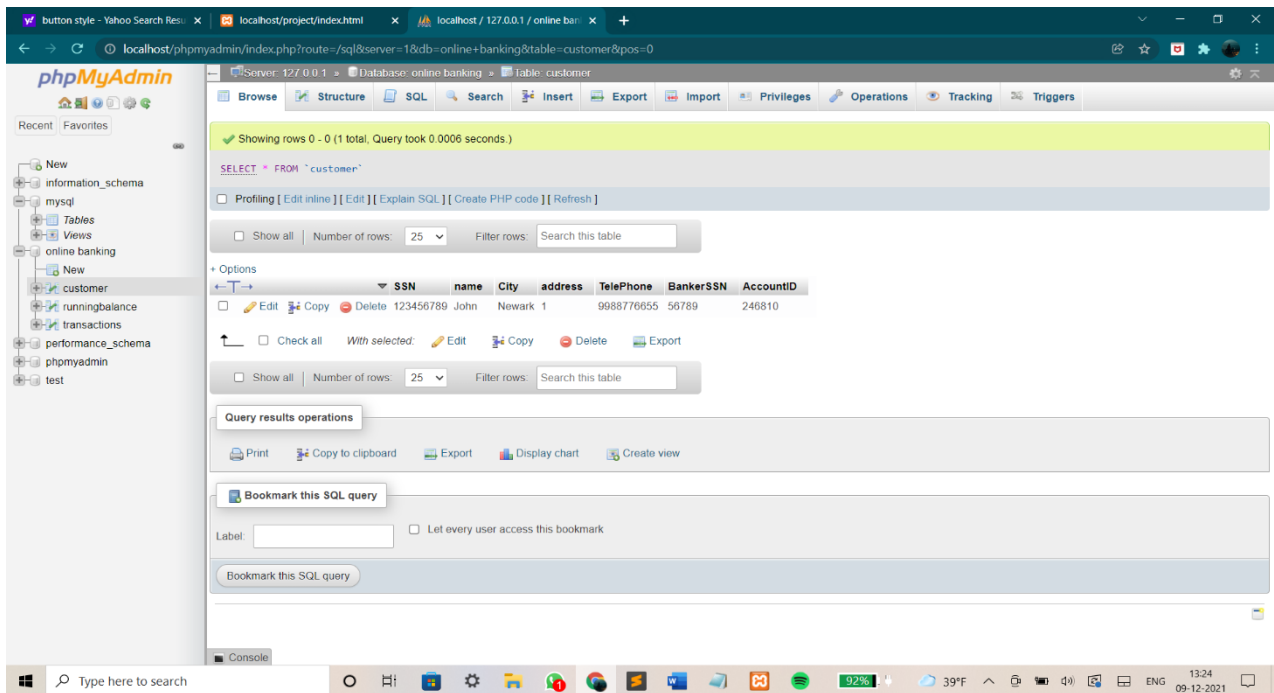


The screenshot shows a web browser window with the address bar displaying 'localhost/project/create.php'. The page title is 'Create Customer'. The form contains the following fields and values:

- Customer SSN: 0123456789
- Customer Name: John
- Phone Number: 9988776655
- City: Newark
- Flat no: 1
- Banker SSN: 56789
- Account no: 246810
- Initial Deposit Amount: 10000

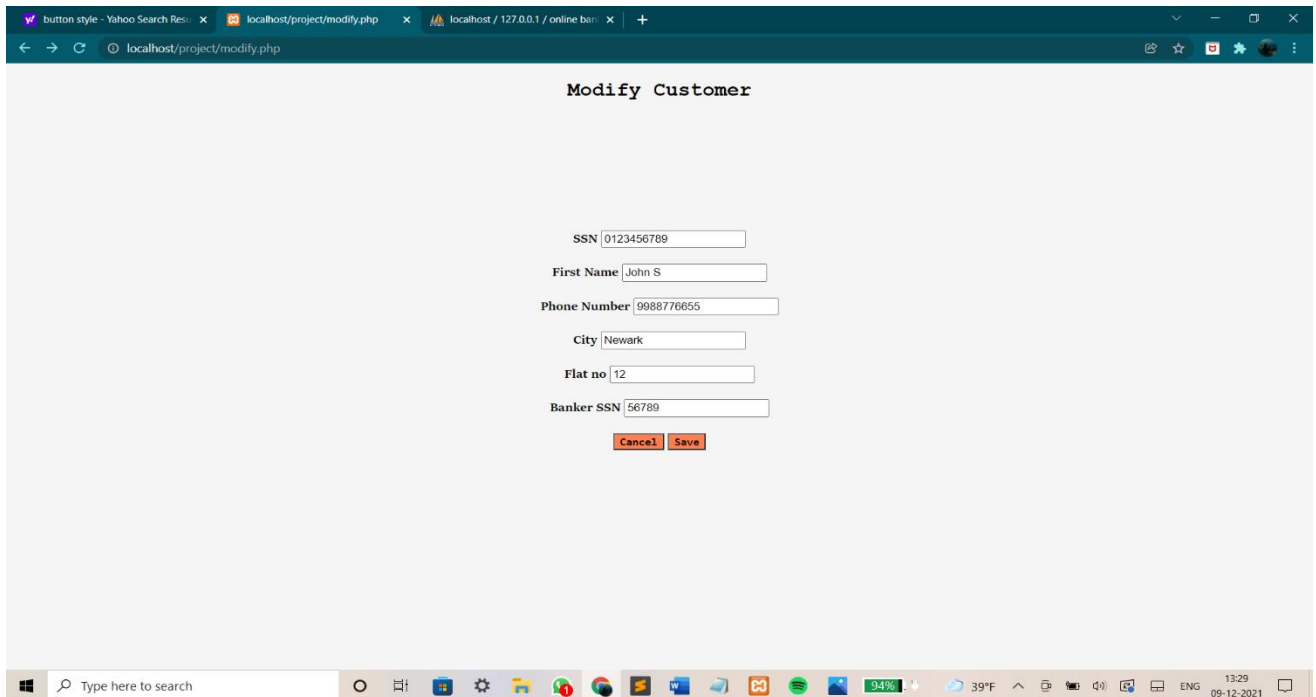
At the bottom of the form, there are two buttons: 'Cancel' and 'Submit'.





From the above images we can understand that a new customer named John has been created by the banker. The banker has provided the details in the input fields of the customer John and they are simultaneously being updated in the database.

modifying customer:



Modify Customer

SSN 0123456789

First Name John S

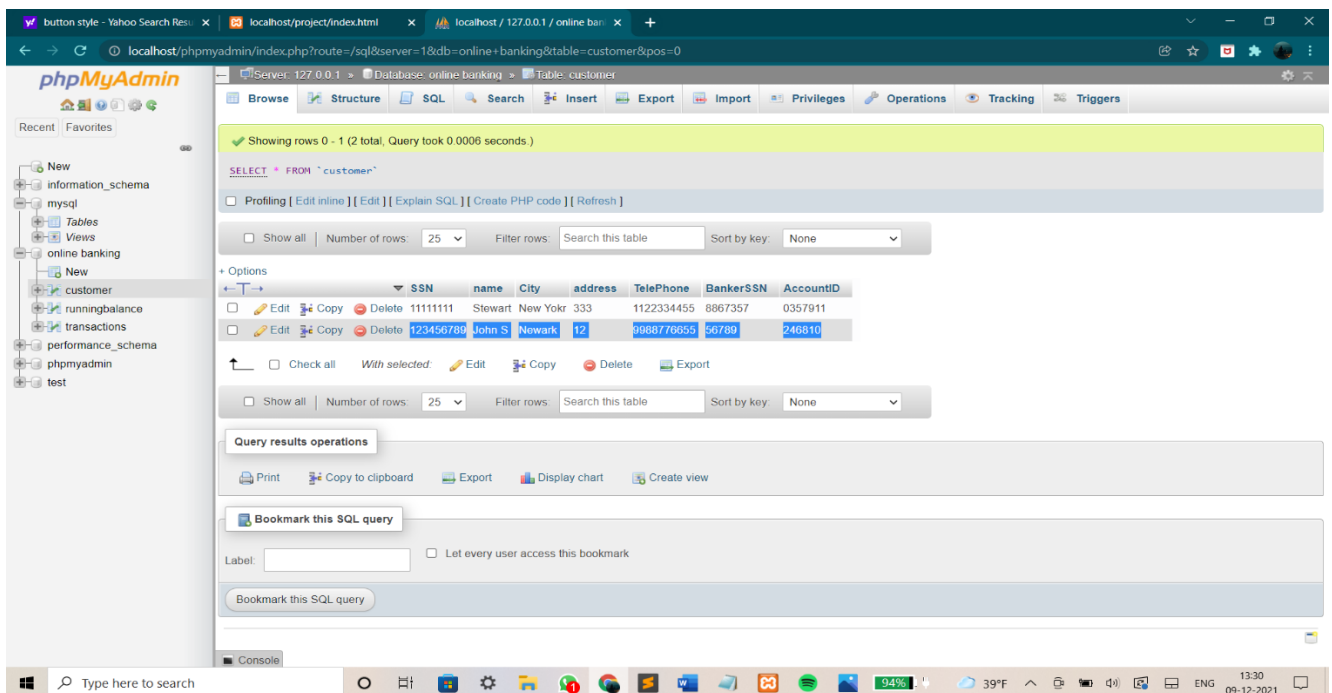
Phone Number 9988776655

City Newark

Flat no 12

Banker SSN 56789

Cancel Save



Showing rows 0 - 1 (2 total, Query took 0.0006 seconds)

SELECT * FROM `customer`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

	SSN	name	City	address	TelePhone	BankerSSN	AccountID
<input type="checkbox"/>	11111111	Stewart	New York	333	1122334455	8867357	0357911
<input checked="" type="checkbox"/>	123456789	John S	Newark	12	9988776655	56789	246810

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

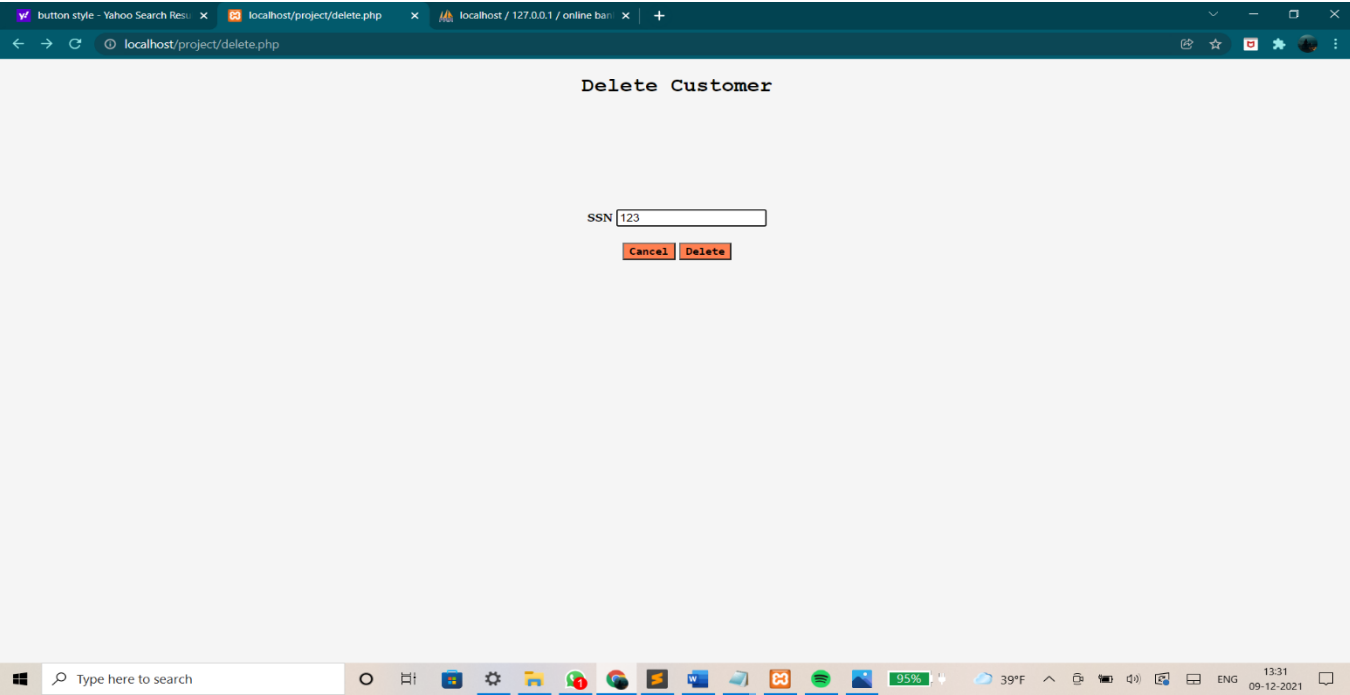
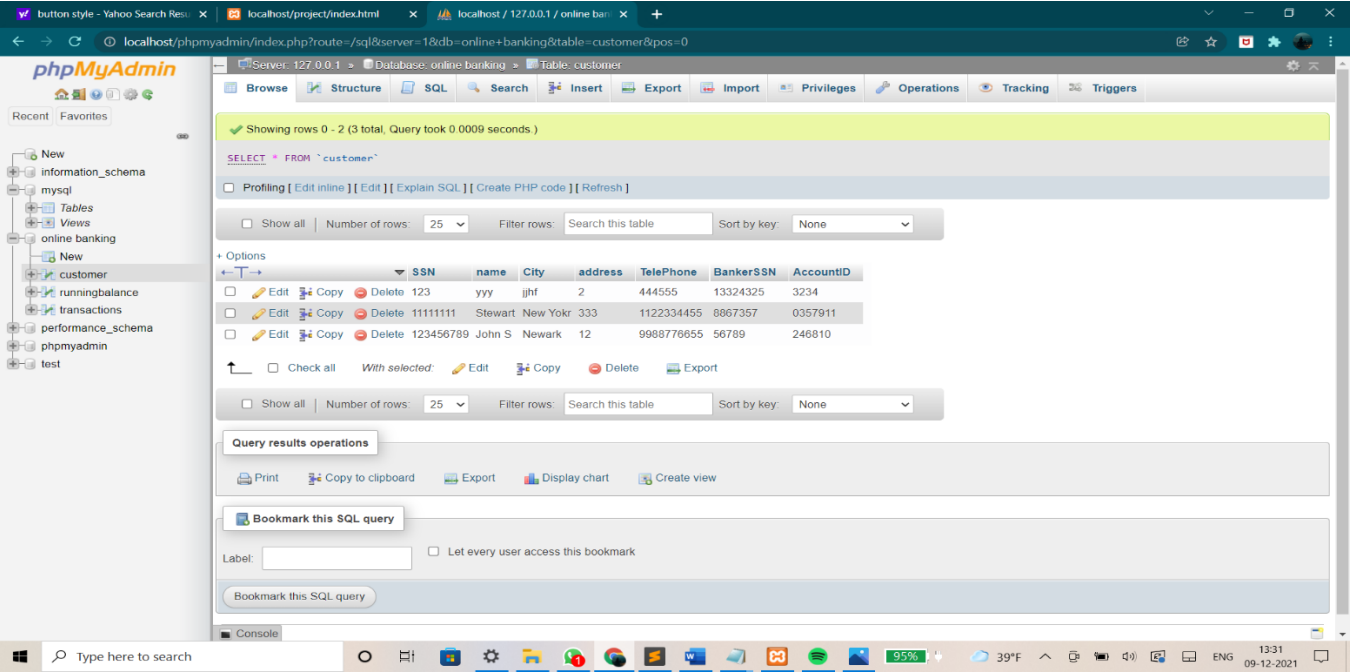
Bookmark this SQL query

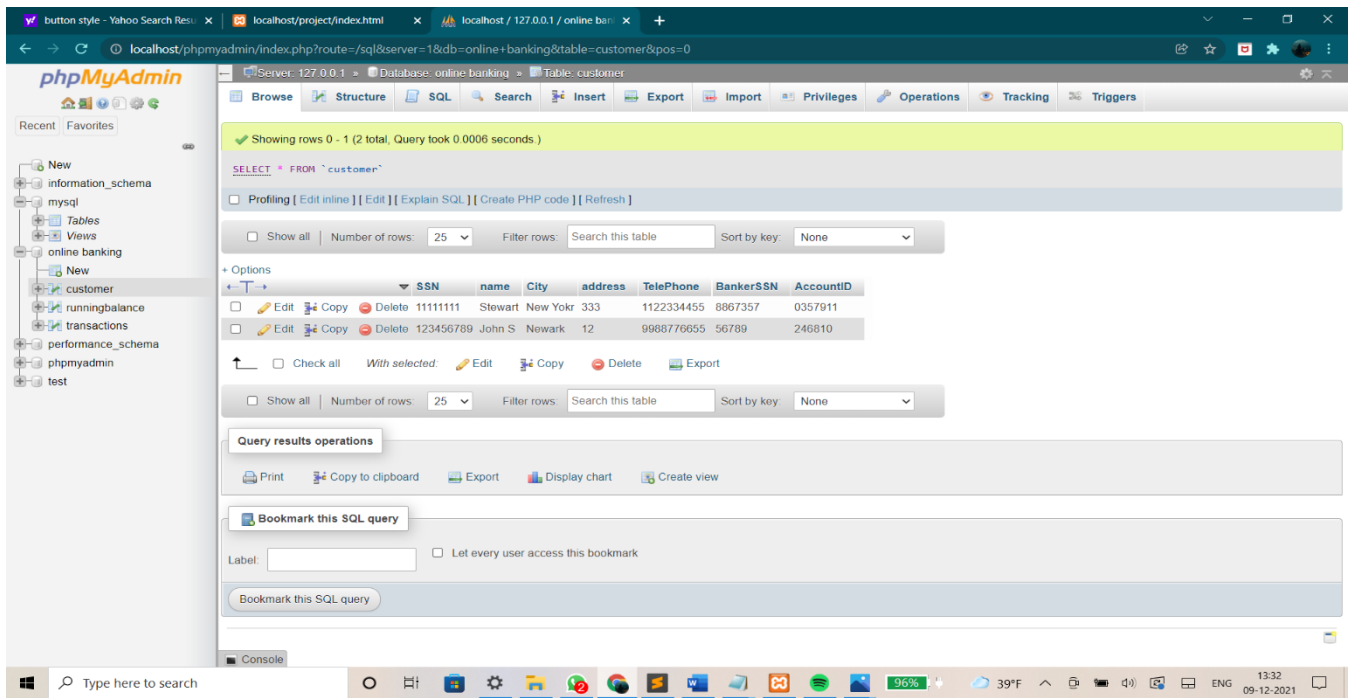
Label: ☐ Let every user access this bookmark

Bookmark this SQL query

The Banker has modified the existing customer details by providing the customer's SSN. In the above images we can see that customer John is modified as JOHN S.

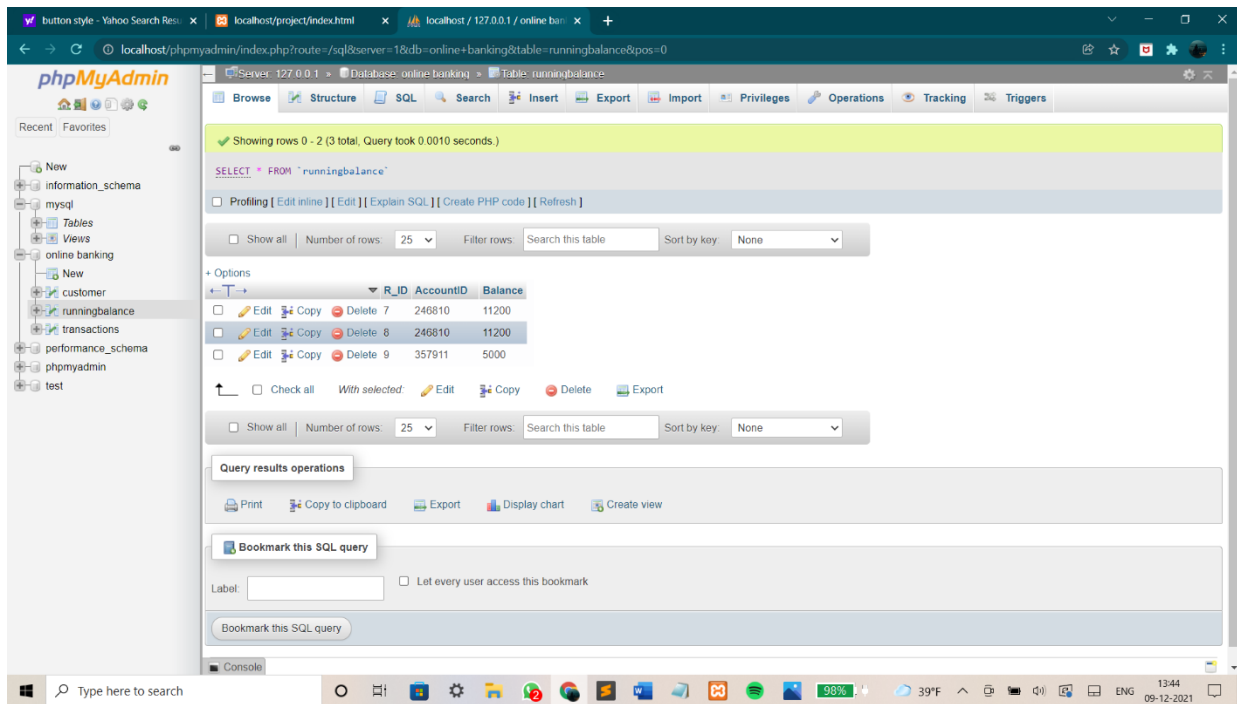
delete customer:





We have created a customer named yyy with account no.123. In order to delete this customer, banker has to provide his account no.(123) as shown in the above images and after clicking on delete the customer details is removed from the database immediately.

deposit money:

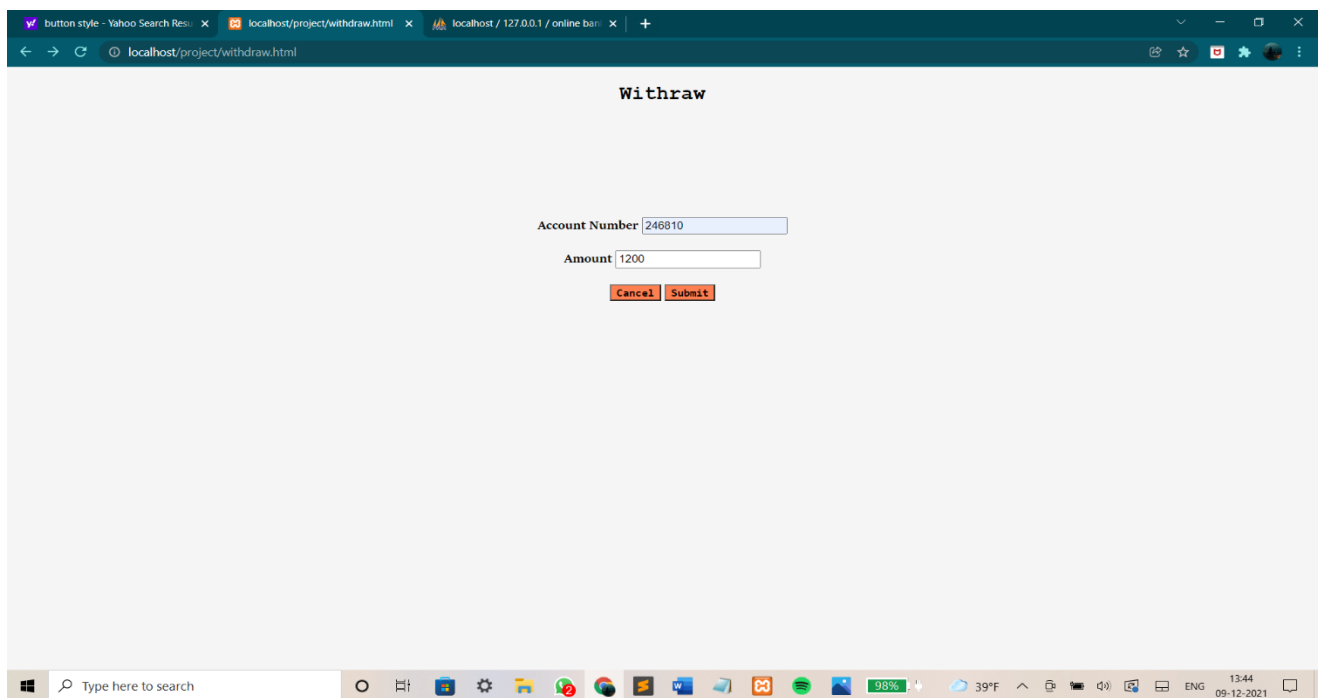


The screenshot shows the phpMyAdmin interface for a database named 'online_banking'. The 'runningbalance' table is selected, and the query results are displayed. The table has three columns: R_ID, AccountID, and Balance. The second row (R_ID 8, AccountID 246810, Balance 11200) is highlighted, indicating a successful deposit.

R_ID	AccountID	Balance
7	246810	11200
8	246810	11200
9	357911	5000

The banker successfully deposited an amount of 1200 to the account no.(246810).

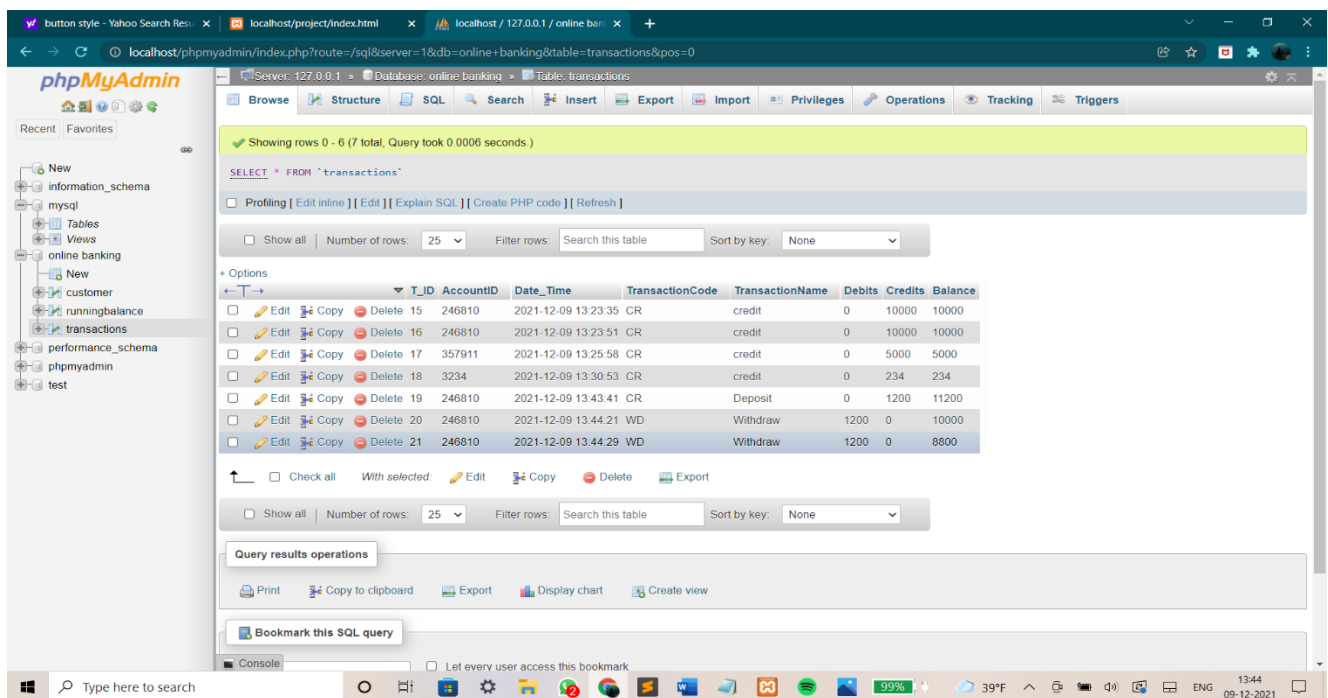
withdraw money:



Withdraw

Account Number

Amount



Showing rows 0 - 6 (7 total, Query took 0.0006 seconds)

```
SELECT * FROM `transactions`
```

Options: T_ID, AccountID, Date_Time, TransactionCode, TransactionName, Debits, Credits, Balance

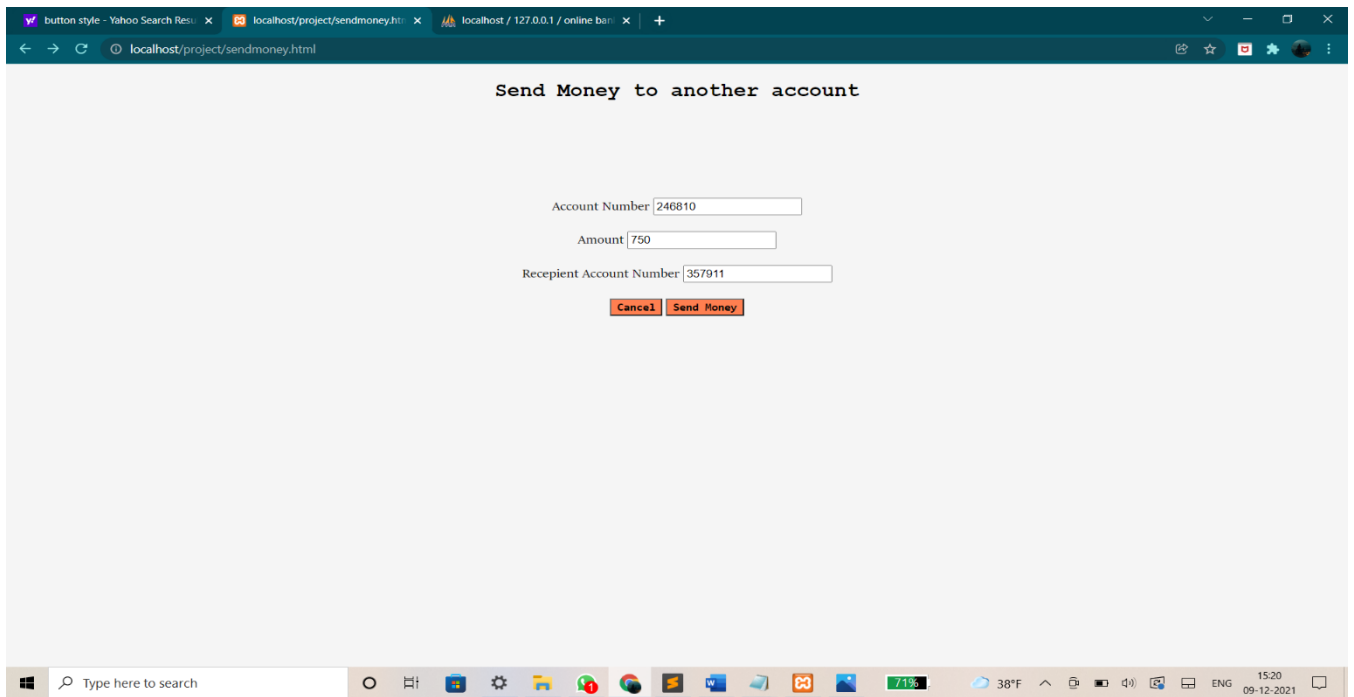
	T_ID	AccountID	Date_Time	TransactionCode	TransactionName	Debits	Credits	Balance
<input type="checkbox"/>	15	246810	2021-12-09 13:23:35	CR	credit	0	10000	10000
<input type="checkbox"/>	16	246810	2021-12-09 13:23:51	CR	credit	0	10000	10000
<input type="checkbox"/>	17	357911	2021-12-09 13:25:58	CR	credit	0	5000	5000
<input type="checkbox"/>	18	3234	2021-12-09 13:30:53	CR	credit	0	234	234
<input type="checkbox"/>	19	246810	2021-12-09 13:43:41	CR	Deposit	0	1200	11200
<input type="checkbox"/>	20	246810	2021-12-09 13:44:21	WD	Withdraw	1200	0	10000
<input type="checkbox"/>	21	246810	2021-12-09 13:44:29	WD	Withdraw	1200	0	8800

Query results operations: Print, Copy to clipboard, Export, Display chart, Create view

Bookmark this SQL query

Banker has performed withdrawal option from the Account no. (246810) of amount 1200.

transfer money :

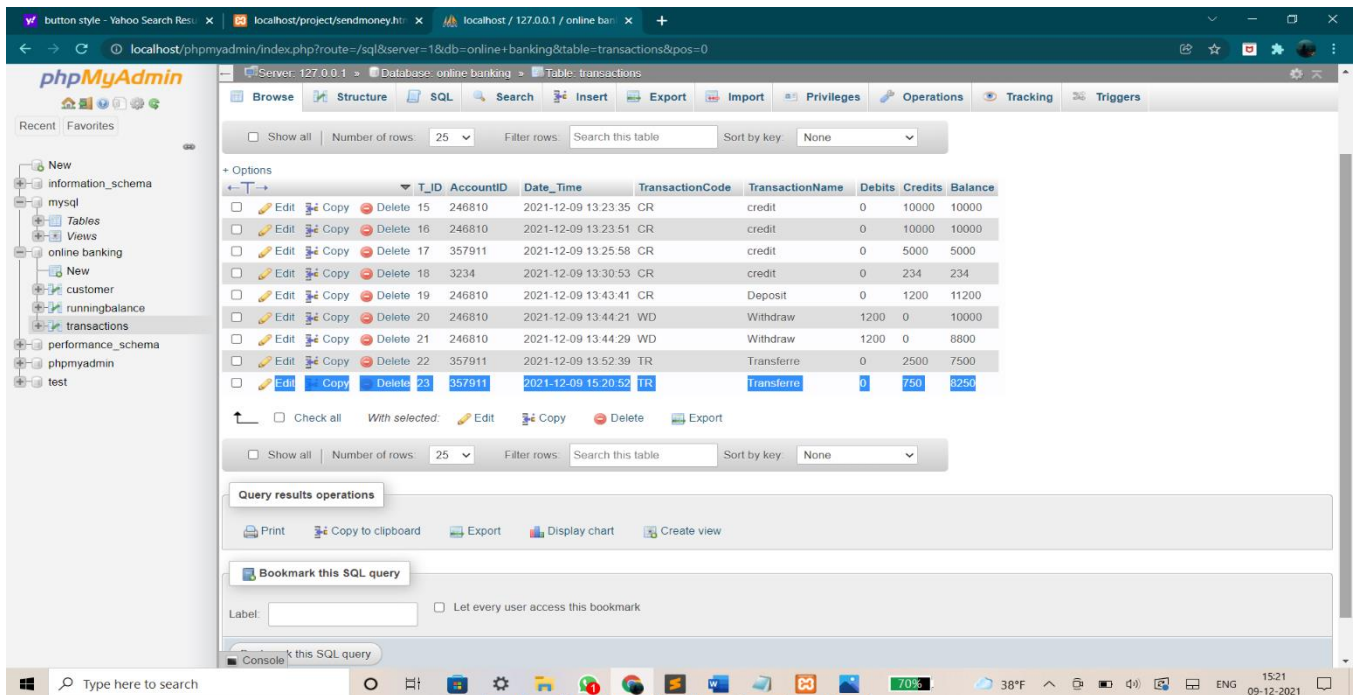


Send Money to another account

Account Number

Amount

Receipient Account Number



Server: 127.0.0.1 Database: online banking Table: transactions

Options: Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

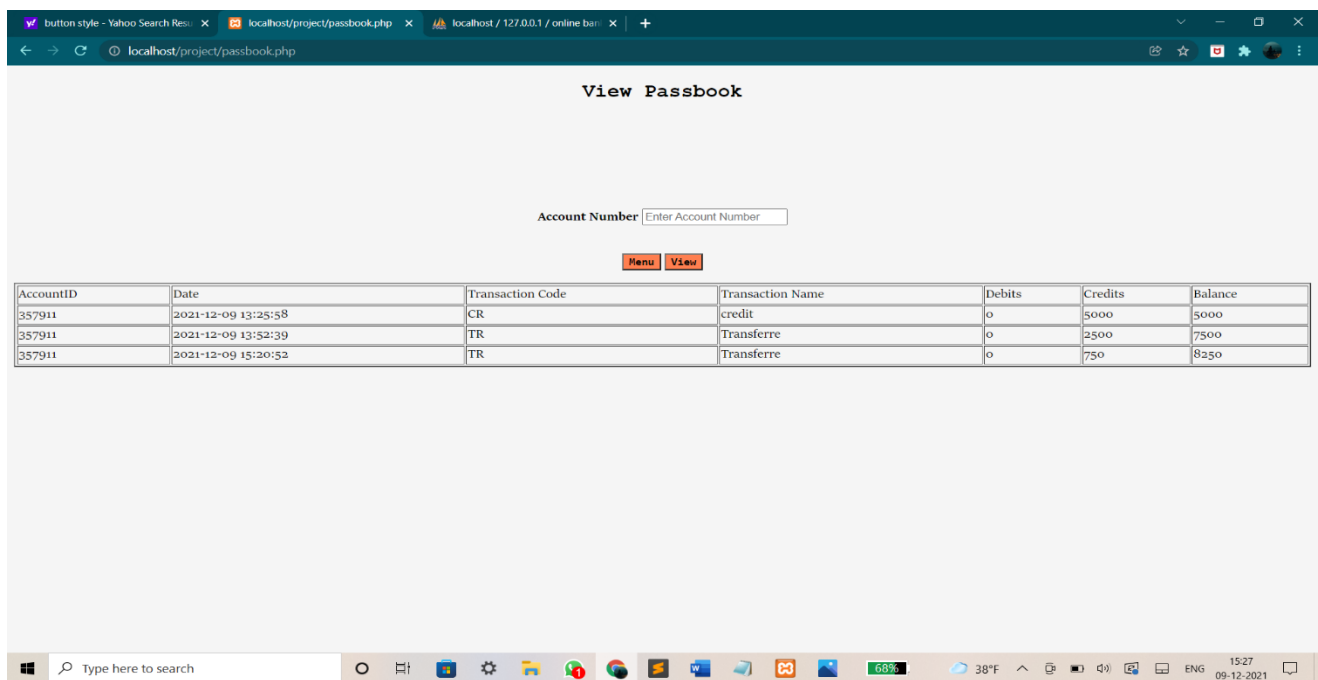
	T_ID	AccountID	Date_Time	TransactionCode	TransactionName	Debits	Credits	Balance
<input type="checkbox"/>	15	246810	2021-12-09 13:23:35	CR	credit	0	10000	10000
<input type="checkbox"/>	16	246810	2021-12-09 13:23:51	CR	credit	0	10000	10000
<input type="checkbox"/>	17	357911	2021-12-09 13:25:58	CR	credit	0	5000	5000
<input type="checkbox"/>	18	3234	2021-12-09 13:30:53	CR	credit	0	234	234
<input type="checkbox"/>	19	246810	2021-12-09 13:43:41	CR	Deposit	0	1200	11200
<input type="checkbox"/>	20	246810	2021-12-09 13:44:21	WD	Withdraw	1200	0	10000
<input type="checkbox"/>	21	246810	2021-12-09 13:44:29	WD	Withdraw	1200	0	8800
<input type="checkbox"/>	22	357911	2021-12-09 13:52:39	TR	Transfere	0	2500	7500
<input type="checkbox"/>	23	357911	2021-12-09 15:20:52	TR	Transfers	0	750	8250

Query results operations: Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query: Label: ☐ Let every user access this bookmark

The money has been transferred from account with Account no. of 246810 to Account no. 357911 of amount 750.

view passbook:



To view the passbook of the customer banker has to select View Passbook option from customer.

SOURCE CODES AND ALL THE OTHER FILES RELATED TO THE PROJECT ARE UPLOADED AS ZIP FILE.

THANKYOU