



Banking Application

Proposal for

Ramana Soft Internship (Assignment-4)

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The project manages the bank's client's accounts and handles the basic transactions of the clients. The system has 2 types (Modules) of users which are the Admin and Clients. The system allows the client to save the records of their Deposits, Withdraws, and Fund Transfers.

About Banking Management System

This Simple Banking System web-based project was developed using Python (Django), HTML, CSS, **JavaScript** (Ajax and jQuery), Bootstrap, MySQL and some other plugins/libraries. On the Admin Side, the system admin user can manage all the records of the client's accounts and the admin can also make the transaction for the walk-in clients. The admin is also in charge of managing the announcements which will be posted on the public website where all their clients or possible clients can read the post. Then, on the Client Side, as I have mentioned above, the client can make their transaction using the system and track all their transactions. The system has many minor features which are relevant for this kind of system such as some Error trapping to prevent system errors due to human errors. The client's credentials can be only created by the admin user.

Features

❖ Public

- Login Page
- Announcement Page
- About us Page

❖ Client-Side

- Dashboard Page (*display the account number and current balance*)
- List of Transactions History
- Deposit
- Withdraw
- Fund Transfer
- Manage System Credentials



❖ Admin Side

- Dashboard Page
- List of All Transactions History
- Deposit for Client
- Withdraw for Client
- Fund Transfer for Client
- Manage System Credentials
- Manage System Settings/Info

❖ Login and Logout *(for the admin module and user module)*

Data Base Schema: Data Base Name: **banking_db**

banking_db system_info
id : int(30)
meta_field : text
meta_value : text

banking_db announcements
id : int(30)
title : text
announcement : text
date_created : datetime
date_updated : datetime

banking_db users
id : int(50)
firstname : varchar(250)
lastname : varchar(250)
username : text
password : text
avatar : text
last_login : datetime
type : tinyint(1)
date_added : datetime
date_updated : datetime

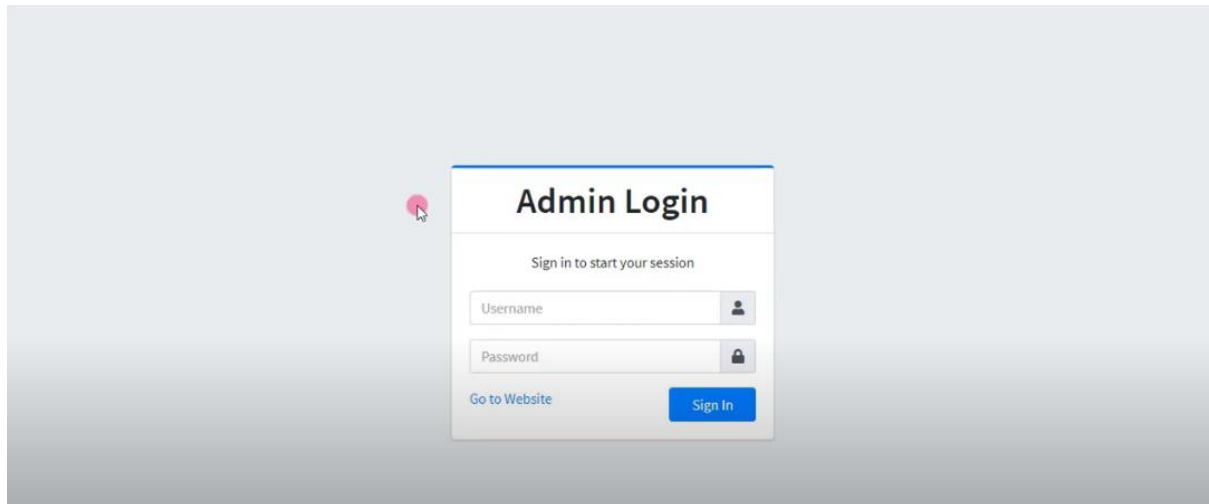
banking_db transactions
id : int(30)
account_id : int(30)
type : tinyint(4)
amount : float
remarks : text
date_created : datetime

banking_db accounts
id : int(30)
account_number : varchar(50)
pin : text
firstname : varchar(250)
lastname : varchar(250)
middlename : varchar(250)
email : text
password : text
generated_password : text
balance : float
date_created : datetime
date_updated : datetime

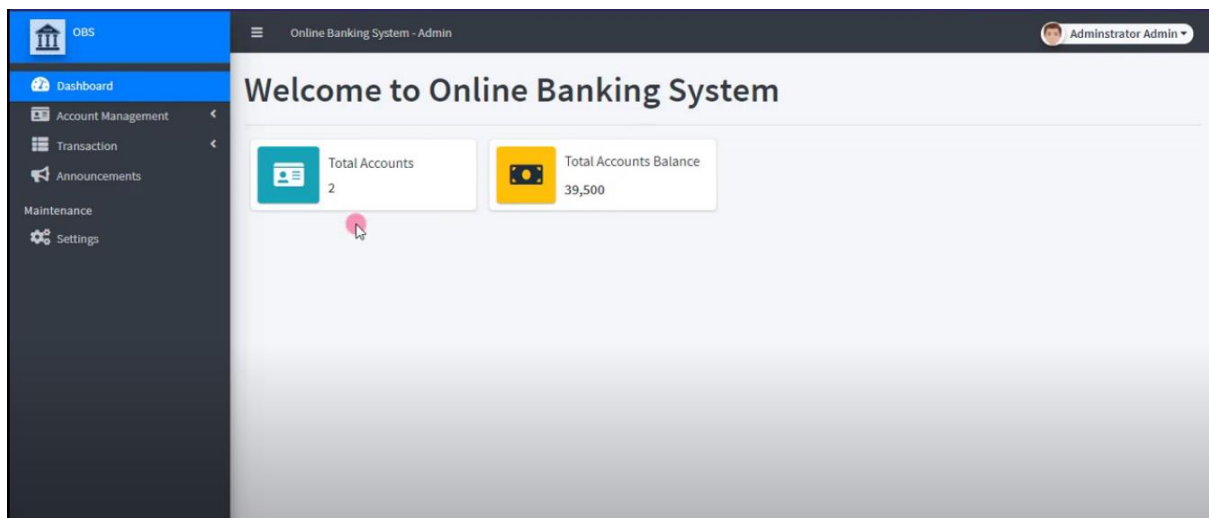


Required Frontend Design Screen Shorts:

1. Login Page: User will have the login and password to access the dashboard (home page).



2. Dashboard Screen: After the login to the admin panel success will get the dashboard page.





3. Create New Account (Bank Module): Creating the new account from the admin panel.

The screenshot shows the 'Create New Account' form in the 'Online Banking System - Admin' interface. The form includes the following fields and options:

- Account Number:** 20140623 (Status: Available)
- First Name:** Mike
- Middle Name:** D
- Last Name:** Williamns
- Email:** mwilliams@sample.com
- Password:** (with a 'Generate' button)
- PIN:** 1234
- Beginning Balance:** 10000

Buttons at the bottom: Save, Cancel.

Note: PIN (Generate is an Option for Generating Random Number)

4. Manage Account (Bank Module): Once we have created the new account, we must show the list of accounts.

The screenshot shows the 'List of Accounts' table in the 'Online Banking System - Admin' interface. A success message 'Account successfully saved.' is displayed at the top right. The table has the following columns: #, Account #, Name, Current Balance, Date Added, Date Last Update, and Action. The data is as follows:

#	Account #	Name	Current Balance	Date Added	Date Last Update	Action
1	20140623	Williamns, MikeD	10,000.00	2021-07-14 16:54:32		Action
2	6231415	Smith, JohnD	18,000.00	2021-07-14 12:03:58	2021-07-14 15:56:12	Action
3	10140715	Blake, ClaireC	21,500.00	2021-07-14 12:05:19	2021-07-14 15:35:16	Action

Showing 1 to 3 of 3 entries. Navigation: Previous, 1, Next.



5. List of Accounts (Bank Module): We do **Edit / Delete** in the action column

Online Banking System - Admin

Account successfully saved.

List of Accounts

+ Create New

Show 10 entries

Search:

#	Account #	Name	Current Balance	Date Added	Date Last Update	Action
1	20140623	Williamns, MikeD	10,000.00	2021-07-14 16:54:32		Action
2	6231415	Smith, JohnD	18,000.00	2021-07-14 12:03:58	2021-07-14 15:56:12	
3	10140715	Blake, ClaireC	21,500.00	2021-07-14 12:05:19	2021-07-14 15:35:16	

Showing 1 to 3 of 3 entries

Previous 1 Next

6. Edit or update Account(Bank Module): When we click on the edit page, we must get this edit form page.

Online Banking System - Admin

Administrator Admin

Update Account

Account Number

20140623

First Name Middle Name Last Name

Mike D Williamns

Email

mwilliams@sample.com

Password

ju034zs5 Generate

Save Cancel



7. Announcements (Bank Module) : Create / Edit / Delete / View

The screenshot shows the 'List of Announcements' page in the 'Online Banking System - Admin' interface. The left sidebar contains navigation links: Dashboard, Account Management, Transaction, Announcements (selected), Maintenance, and Settings. The main content area displays a table with two entries. A '+ Create New' button is in the top right. Below the table, it says 'Showing 1 to 2 of 2 entries' with 'Previous', '1', and 'Next' pagination links.

#	Date Created	Title	Body	Date Last Update	Action
1	2021-07-14 14:33:41	Sample	some text here		Action ▼
2	2021-07-14 14:10:09	Sample 101	some text here	2021-07-14 14:11:30	Action ▼

8. Announcements Module: Create New Announcement

The screenshot shows the 'Create New Announcement' form. The left sidebar is the same as in the previous screenshot. The main content area has a 'Title' field with 'Sample 102' and an 'Announcement' text area with 'Sample only'. A rich text editor toolbar is visible above the text area. At the bottom are 'Save' and 'Cancel' buttons.

Title: Sample 102

Announcement: Sample only



9. User Interface (Customer Module) Login to Banking System

Welcome Online Banking System

Login

Email
mwilliams@sample.com

Password

Login

10. After Login to Home Page:

Online Banking System

Welcome to Online Banking System

Account Number: 20140623
Current Balance: 10,000.00

Mike Williams

My Account

Logout

Dashboard

- Transactions
- Deposit
- Withdraw
- Transfer



11. My Account User Settings panel

OBS Online Banking System

✓ User Details successfully updated.

First Name
Mike

Last Name
Williamns

Email
mwilliams@sample.com

Password
Leave this blank if you dont want to change the password.

Update

12. Transactions(Customer Module):

OBS Online Banking System

Mike Williams

Transactions

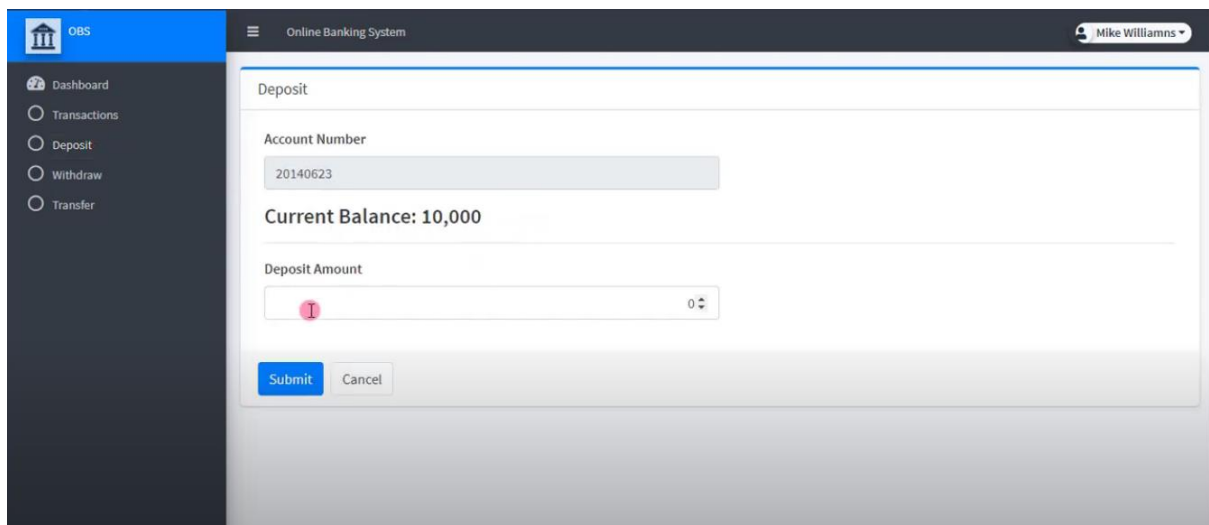
Show 10 entries Search:

#	Date Created	Transaction	Amount
1	2021-07-14 16:54:32	Beginning balance	10,000.00

Showing 1 to 1 of 1 entries

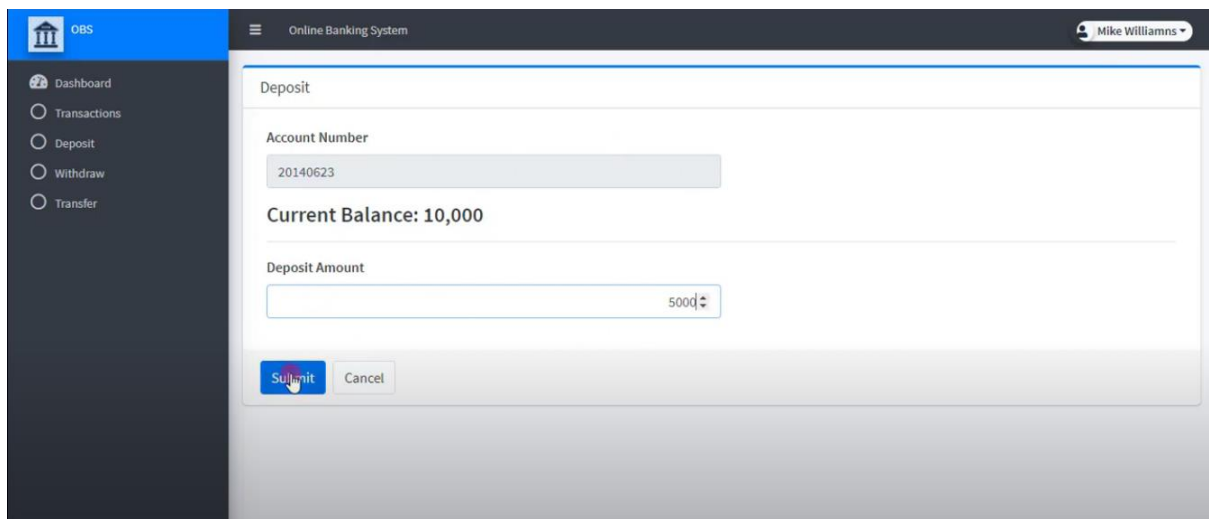
Previous 1 Next

13. Deposit (Customer Interface):

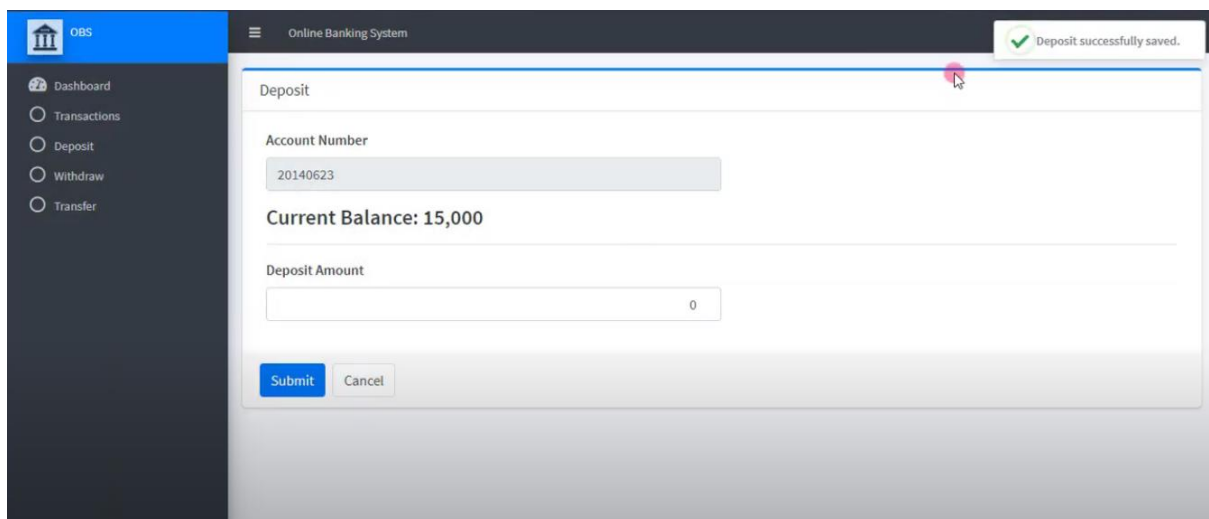


The screenshot shows the 'Deposit' form in the 'Online Banking System' (OBS) interface. The user is logged in as 'Mike Williams'. The form displays the 'Account Number' as 20140623 and the 'Current Balance' as 10,000. The 'Deposit Amount' field is empty, with a red 'I' icon indicating an input error. The 'Submit' button is highlighted in blue, and the 'Cancel' button is in grey.

14. Deposit Amount after adding the balance: (Customer Interface)



The screenshot shows the 'Deposit' form in the 'Online Banking System' (OBS) interface. The user is logged in as 'Mike Williams'. The form displays the 'Account Number' as 20140623 and the 'Current Balance' as 10,000. The 'Deposit Amount' field now contains the value 5000. The 'Submit' button is highlighted in blue, and the 'Cancel' button is in grey.



The screenshot shows the 'Deposit' form in the 'Online Banking System' (OBS) interface. The user is logged in as 'Mike Williams'. The form displays the 'Account Number' as 20140623 and the 'Current Balance' as 15,000. The 'Deposit Amount' field is empty, with a '0' value. The 'Submit' button is highlighted in blue, and the 'Cancel' button is in grey. A green checkmark icon and the text 'Deposit successfully saved.' are visible in the top right corner of the form area.



15. With Draw(Customer Module)

OBS

Dashboard

Transactions

Deposit

Withdraw

Transfer

Online Banking SystemMike Williams

Widthdraw

Account Number

20140623

Current Balance: 15,000

Deposit Amount

0

SubmitCancel

OBS

Dashboard

Transactions

Deposit

Withdraw

Transfer

Online Banking SystemMike Williams

Widthdraw

Account Number

20140623

Current Balance: 15,000

Deposit Amount

2500

SubmitCancel

OBS

Dashboard

Transactions

Deposit

Withdraw

Transfer

Online Banking System

Withdraw form successfully saved.

Mike Williams

Widthdraw

Account Number

20140623

Current Balance: 12,500

Deposit Amount

0

SubmitCancel



16. Transfer Amount To Other Account User: (Customer Module)

Online Banking System

Mike Williams

Deposit

Account Number: 20140623

Current Balance: 12,500

Transfer To:

Name:

Deposit Amount: 0

Submit Cancel

localhost/banking/client/?page=transaction/transfer

Online Banking System

Mike Williams

Amount is greater than client's balance

Deposit

Account Number: 20140623

Current Balance: 12,500

Transfer To: 6231415

Name: Smith, John D

Deposit Amount: 500000

Submit Cancel

localhost/banking/client/?page=transaction/transfer

Online Banking System

Mike Williams

Deposit

Account Number: 20140623

Current Balance: 12,500

Transfer To: 6231415

Name: Smith, John D

Deposit Amount: 1500

Submit Cancel



OBS Online Banking System

Transfer successfully processed.

Deposit

Account Number: 20140623

Current Balance: 11,000

Transfer To:

Name:

Deposit Amount:

17. After Transfer (User Interface)

OBS Online Banking System Mike Williams

Transactions

Show 10 entries Search:

#	Date Created	Transaction	Amount
1	2021-07-14 16:57:37	Transferred to 6231415	1,500.00
2	2021-07-14 16:56:55	Withdraw	2,500.00
3	2021-07-14 16:56:39	Deposits	5,000.00
4	2021-07-14 16:54:32	Beginning balance	10,000.00

Showing 1 to 4 of 4 entries

Previous 1 Next

18. Bank Module (Transactions)

OBS Online Banking System - Admin Administrator Admin

Transactions

Show 10 entries Search:

#	Account #	Name	Amount	Transaction	Date Created
1	20140623	Williams, MikeD	1,500.00	Transferred to 6231415	2021-07-14 16:57:37
2	6231415	Smith, JohnD	1,500.00	Transferred from 20140623	2021-07-14 16:57:37
3	20140623	Williams, MikeD	2,500.00	Withdraw	2021-07-14 16:56:55
4	20140623	Williams, MikeD	5,000.00	Deposits	2021-07-14 16:56:39
5	20140623	Williams, MikeD	10,000.00	Beginning balance	2021-07-14 16:54:32
6	6231415	Smith, JohnD	1,000.00	Withdraw	2021-07-14 15:56:12
7	6231415	Smith, JohnD	1,000.00	Deposits	2021-07-14 15:55:54
8	6231415	Smith, JohnD	5,000.00	Deposits	2021-07-14 15:49:15
9	6231415	Smith, JohnD	1,000.00	Transferred to 10140715	2021-07-14 15:35:16
10	10140715	Blake, ClaireC	1,000.00	Transferred from 6231415	2021-07-14 15:35:16

Showing 1 to 10 of 18 entries

Previous 1 2 Next



19. (Bank Module) Transactions: History (Based on the customer Name)

The screenshot displays the 'Transactions' page in the 'Online Banking System - Admin' interface. The left sidebar shows the navigation menu with 'Transaction' selected. The main content area shows a table of transactions for the customer 'Smith, JohnD'. A search bar at the top right of the table is highlighted with a red box, containing the text 'Smith, JohnD'. The table lists 18 transactions, with the first 10 displayed. The columns are: #, Account #, Name, Amount, Transaction, and Date Created. The transactions include various types such as 'Transferred from', 'Withdraw', 'Deposits', and 'Beginning balance'.

#	Account #	Name	Amount	Transaction	Date Created
2	6231415	Smith, JohnD	1,500.00	Transferred from 20140623	2021-07-14 16:57:37
6	6231415	Smith, JohnD	1,000.00	Withdraw	2021-07-14 15:56:12
7	6231415	Smith, JohnD	1,000.00	Deposits	2021-07-14 15:55:54
8	6231415	Smith, JohnD	5,000.00	Deposits	2021-07-14 15:49:15
9	6231415	Smith, JohnD	1,000.00	Transferred to 10140715	2021-07-14 15:35:16
11	6231415	Smith, JohnD	1,000.00	Withdraw	2021-07-14 15:25:20
12	6231415	Smith, JohnD	3,000.00	Deposits	2021-07-14 15:23:21
13	6231415	Smith, JohnD	3,000.00	Transferred to 10140715	2021-07-14 13:51:04
16	6231415	Smith, JohnD	5,000.00	Deposits	2021-07-14 13:32:03
18	6231415	Smith, JohnD	10,000.00	Beginning balance	2021-07-14 12:03:58

Showing 1 to 10 of 10 entries (filtered from 18 total entries)

Note: User should get the transaction details of the search information.

20. (Bank Module) Transactions : (Deposit the amount from the user account):

The screenshot displays the 'Deposit' page in the 'Online Banking System - Admin' interface. The left sidebar shows the navigation menu with 'Transaction' selected. The main content area shows a form for depositing an amount. The form includes fields for 'Account Number' (6231415), 'Name' (Smith, John D), 'Balance' (19500), and 'Deposit Amount' (1500). There are 'Submit' and 'Cancel' buttons at the bottom.



21. (Bank Module) Withdraw Module (Withdraw the amount from the user account):

The screenshot shows the 'Withdraw' form in the 'Online Banking System - Admin' interface. The form is titled 'Withdraw' and contains the following fields:

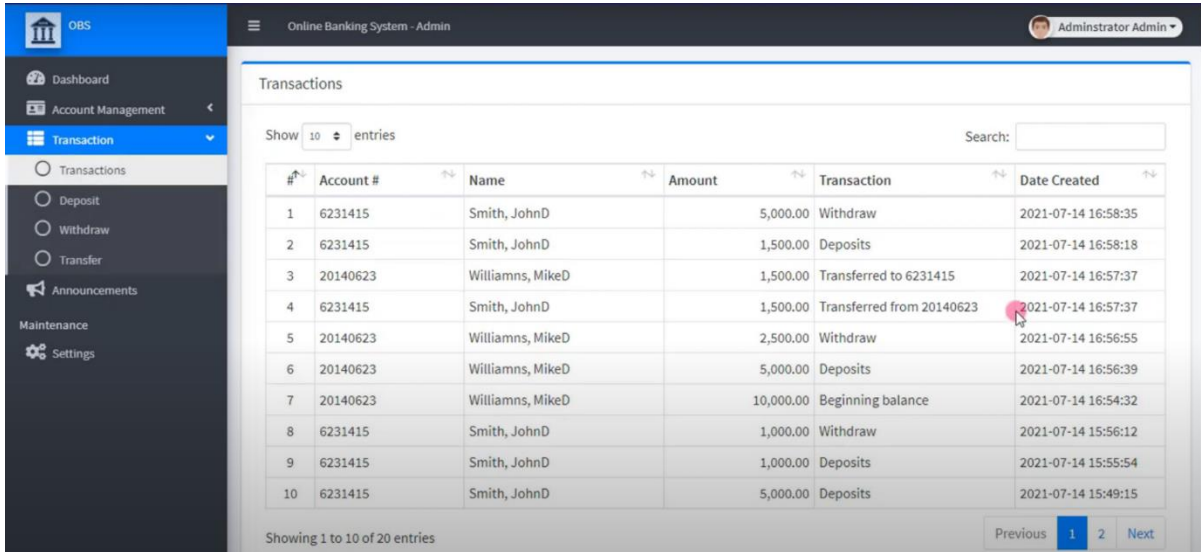
- Account Number:** A text input field containing the value '6231415'.
- Name:** A text input field containing the value 'Smith, John D'.
- Balance:** A text input field containing the value '21000'.
- Withdraw Amount:** A text input field containing the value '5000'.

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

22. (Bank Module)withdraw categories: you will get the small toast message will get display.

The screenshot shows the 'Withdraw' form in the 'Online Banking System - Admin' interface, similar to the previous one. However, a small toast message is displayed at the top right of the form, indicating a successful withdrawal. The toast message is circled in red and contains the text: 'Smith, John D. withdraw form successfully saved.'.

23. Transactions (Bank Module): All the history of the customers transaction history should show based on the date and time format.



Transactions

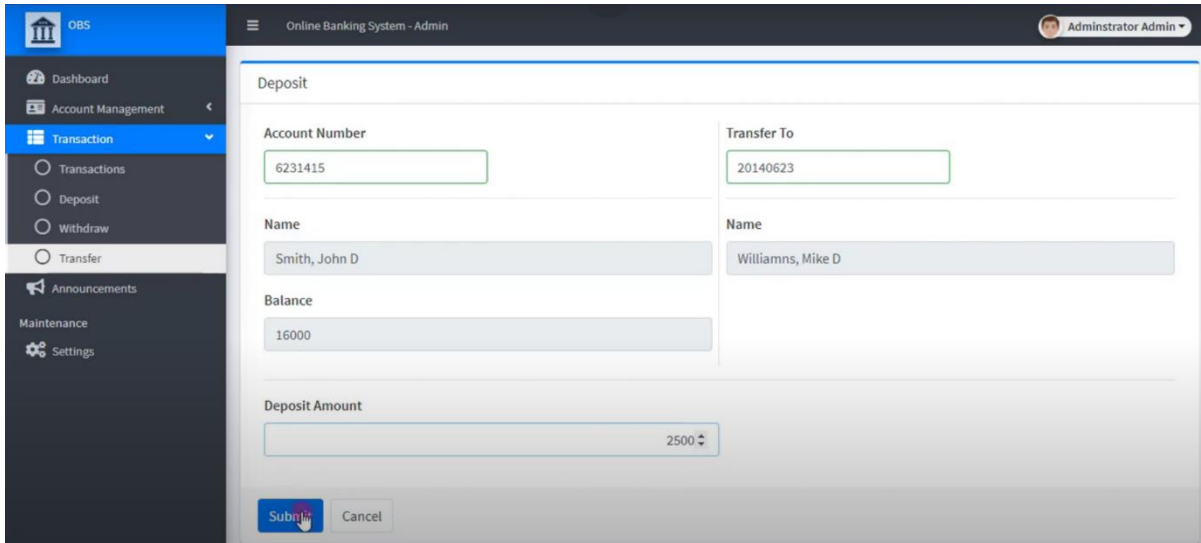
Show 10 entries Search:

#	Account #	Name	Amount	Transaction	Date Created
1	6231415	Smith, JohnD	5,000.00	Withdraw	2021-07-14 16:58:35
2	6231415	Smith, JohnD	1,500.00	Deposits	2021-07-14 16:58:18
3	20140623	Williamns, MikeD	1,500.00	Transferred to 6231415	2021-07-14 16:57:37
4	6231415	Smith, JohnD	1,500.00	Transferred from 20140623	2021-07-14 16:57:37
5	20140623	Williamns, MikeD	2,500.00	Withdraw	2021-07-14 16:56:55
6	20140623	Williamns, MikeD	5,000.00	Deposits	2021-07-14 16:56:39
7	20140623	Williamns, MikeD	10,000.00	Beginning balance	2021-07-14 16:54:32
8	6231415	Smith, JohnD	1,000.00	Withdraw	2021-07-14 15:56:12
9	6231415	Smith, JohnD	1,000.00	Deposits	2021-07-14 15:55:54
10	6231415	Smith, JohnD	5,000.00	Deposits	2021-07-14 15:49:15

Showing 1 to 10 of 20 entries

Previous 1 2 Next

24. Deposit (Bank Module):



Deposit

Account Number: 6231415

Transfer To: 20140623

Name: Smith, John D

Name: Williamns, Mike D

Balance: 16000

Deposit Amount: 2500

Submit Cancel



Online Banking System - Admin

Transfer successfully processed.

Deposit

Account Number

Transfer To

Name

Name

Balance

Deposit Amount

0

Submit Cancel

25. Bank Settings (System Information):

Online Banking System - Admin

Administrator Admin

System Information

System Name

Online Banking System

System Short Name

OBS

About Us

Source Sans Pro 16

Sample About Us

System Logo

Choose file

Browse

Website Cover

Choose file

Browse

Update