

ATM Simulator System

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Starting the Application

1. Please run the application in VSCode.
2. Please run Nodejs and then run the angular app.

ATM Simulator

USER INFORMATION		
PK	_id	String
UserAuth Object		
PK	_id	String
	usercode	Number
	userPin	Number
	pinUpdate	Boolean
	isBlocked	Boolean
	userType	String
	createdAt	Date
	updatedAt	Date
firstName		String
lastName		String
email		String
address Object		
PK	_id	String
	streetAddress	String
	addressDesc	String
	city	String
	province	String
	postal	String
	createdAt	Date
	updatedAt	Date
	accountStatus	Boolean
	updatedAt	Date

ATM		
PK	_id	String
	code	String
	name	String
budget Object		
PK	_id	String
	value	Number
	accountNumber	Number
	createdAt	Date
FK	isOpen	Boolean
	createdAt	Date
	updatedAt	Date

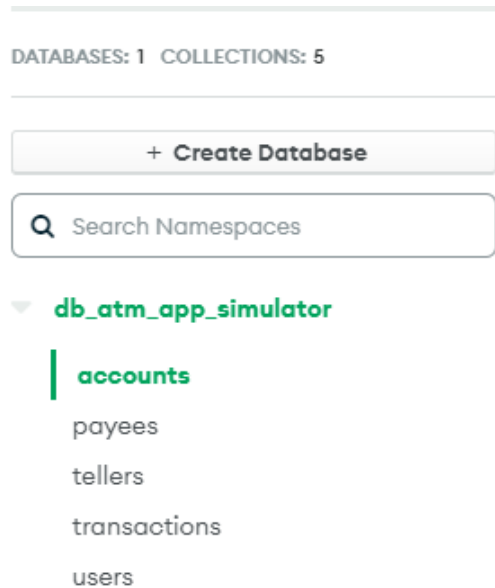
BILL_HISTORY		
PK	_id	String
FK	accountNumber	Number
history Object		
PK	_id	String
	description	String
	value	Number
	createdAt	Date
	updatedAt	Date
	createdAt	Date

TRANSACTIONS		
PK	_id	String
PK,FK	accountNumber	Number
history Object		
PK	_id	String
	description	String
	value	Number
	postedDate	Date
	createdAt	Date
	updatedAt	Date

PAYEES		
PK	_id	String
FK	uid	String
customers Object		
PK	_id	String
	accountName	String
	accountNumber	Number
	createdAt	Date
	createdAt	Date
	updatedAt	Date

ACCOUNTS		
PK	_id	String
PK,FK	userID	String
	createdAt	Date
	updatedAt	Date
checking Object		
PK	_id	String
	accountNumber	number
	accountType	String
	credit	Number
	isActive	Boolean
	createdAt	Date
	updatedAt	Date
savings Object		
PK	_id	String
	accountNumber	number
	accountType	String
	credit	Number
	isActive	Boolean
	createdAt	Date
	updatedAt	Date
mortgage Object		
PK	_id	String
	accountNumber	number
	accountType	String
	credit	Number
	isActive	Boolean
	createdAt	Date
	updatedAt	Date
lineOfCredit Object		
PK	_id	String
	accountNumber	number
	accountType	String
	credit	Number
	isActive	Boolean
	createdAt	Date
	updatedAt	Date

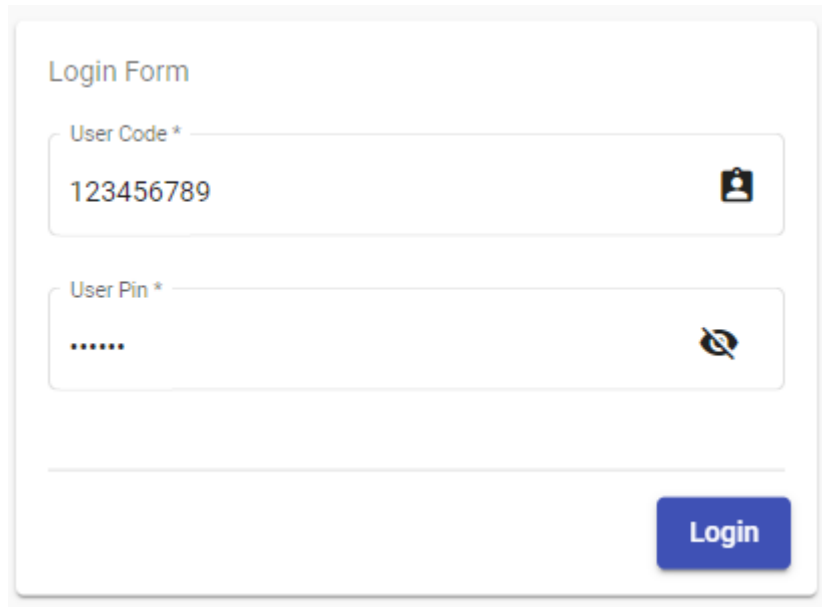
Database



The database table is as follows:

- Accounts – Holds accounts of clients.
 - Account Types
 - Chequing
 - Savings
 - Mortgage
 - Line of credit
- Transactions – Holds transactions of each accounts.
- Users – Holds registered user on the system.
- Tellers – Holds ATM setup *Admins only
- Payees – Holds registered customers for pay bills.

Login Form



Login Form

User Code *
123456789

User Pin *
.....

Login

Admin Credential

User code: 123456789

User Pin: 123456

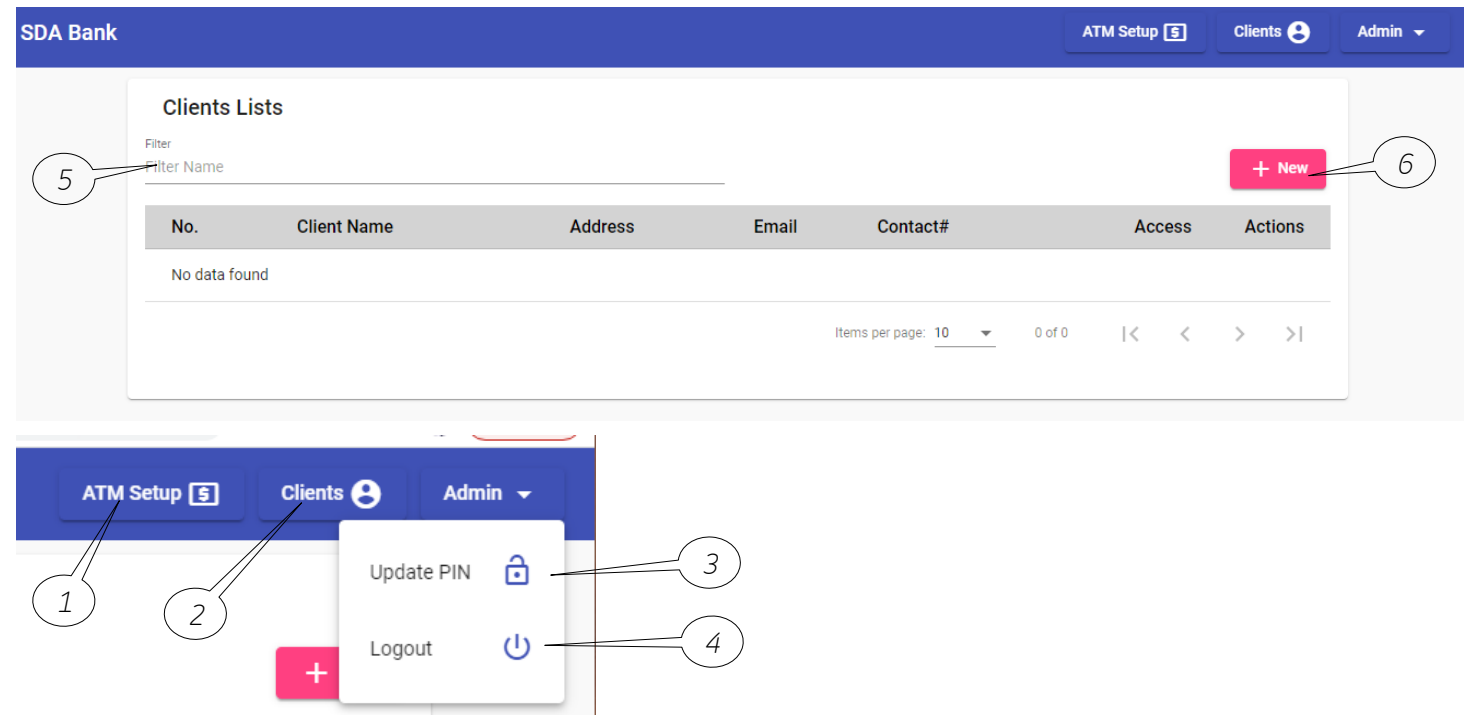
User codes will be randomly created when creating a new user.

Admin Dashboard

Dashboard will be empty for now as we don't have users created yet.

There are six main menu on the screen.

1. **ATM Setup** – Use to setup our ATM application.
2. **Clients** – Use to maintain users.
3. **Update PIN** – Use to update PIN
4. **Logout** – Logout in the system
5. **Filter** – Use for searching users.
6. **+ New** – Creates/Enroll user.



User Creation

The user form will accept strings and/or numbers and will only allow the user to continue if all fields are correct.

Client Registration Form

First Name *
Johnny

Last Name *
English

Phone *
123-456-7890

Email *
johnny.english@

Please provide a valid email.

Street Address *
3315 Van Horne

Address 2
Address Second Line

City *
Montreal

Province *
QC

Postal *
H3S1R3

Cancel

Submit

Client Registration Form

First Name *
Johnny

Last Name *
English

Phone *
123-456-7890

Email *
johnny.english@gmail.com

Street Address *
3315 Van Horne

Address 2
Address Second Line

City *
Montreal

Province *
QC

Postal *
H3S1R3

Cancel

Submit

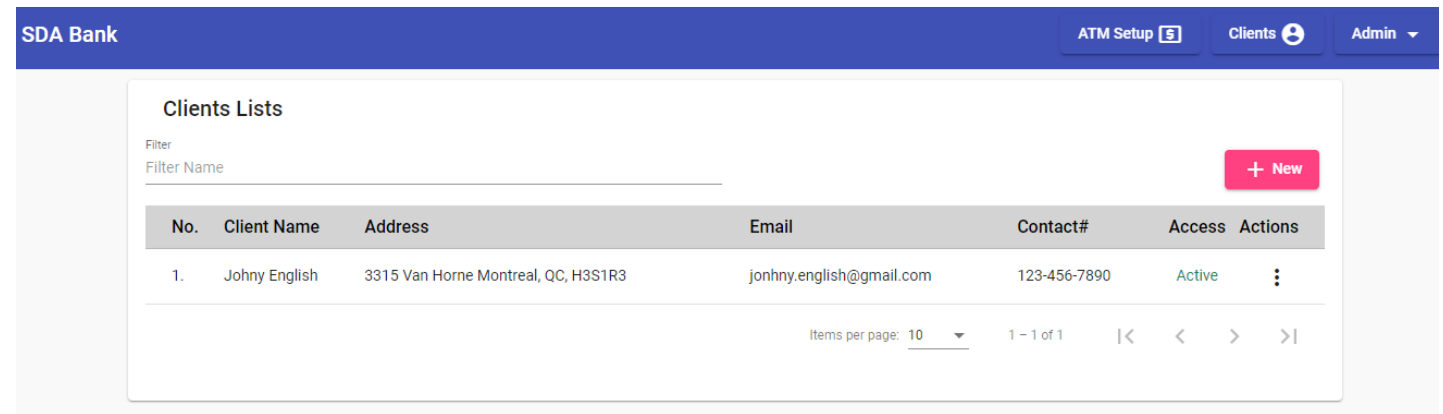
Created User

The created user will instantly appear on the screen.

The user will have access in the system automatically.

User Menu:

- **View Account** – Manage user accounts.
- **Update** – Updates user information.
- **Revoke Access** – Revokes system access to user.
- **Grant Access** – Grant system access to user.



SDA Bank

ATM Setup Clients Admin

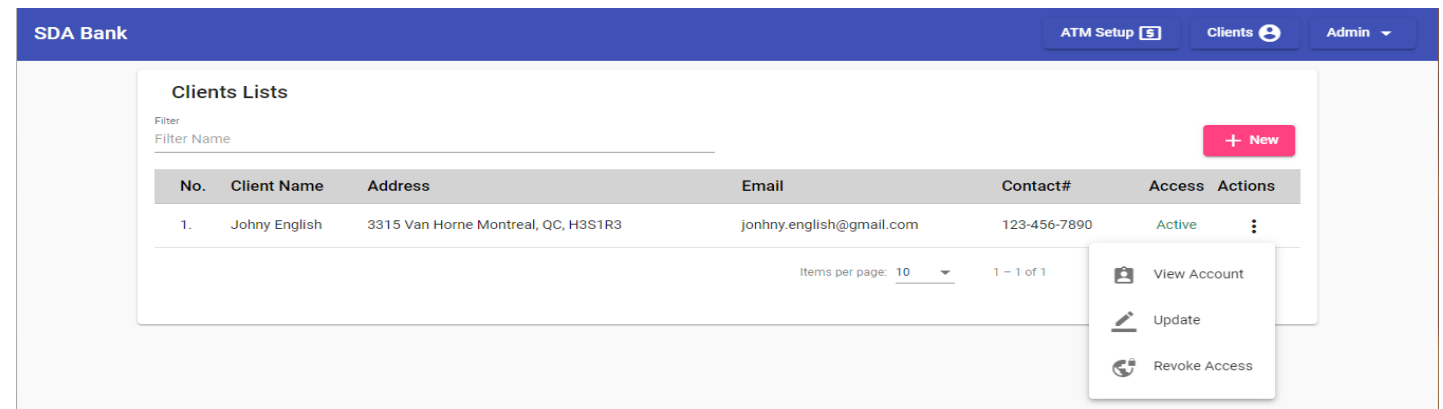
Clients Lists

Filter
Filter Name

[+ New](#)

No.	Client Name	Address	Email	Contact#	Access	Actions
1.	Johnny English	3315 Van Horne Montreal, QC, H3S1R3	johnny.english@gmail.com	123-456-7890	Active	

Items per page: 1 – 1 of 1



SDA Bank

ATM Setup Clients Admin

Clients Lists

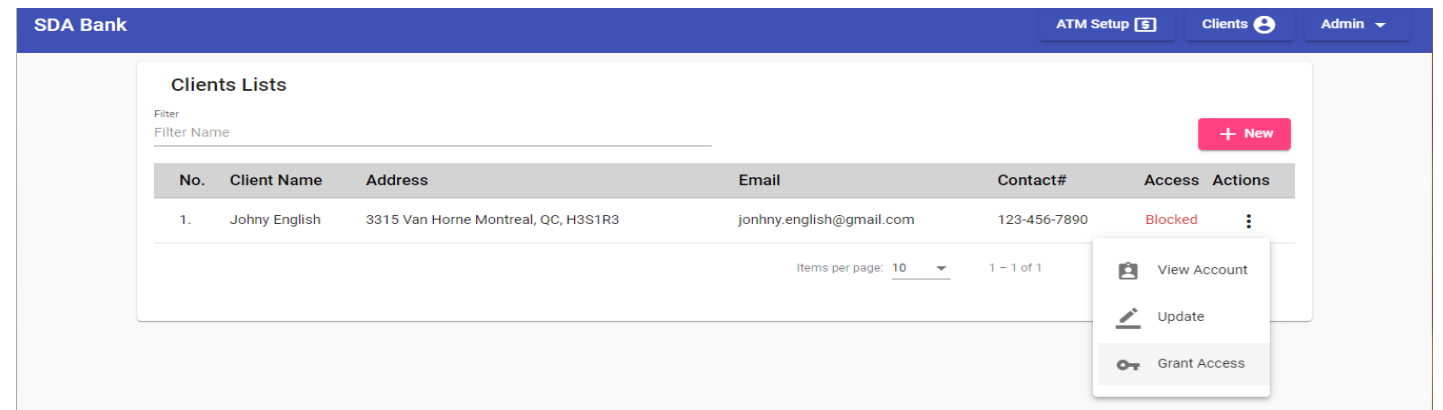
Filter
Filter Name

[+ New](#)

No.	Client Name	Address	Email	Contact#	Access	Actions
1.	Johnny English	3315 Van Horne Montreal, QC, H3S1R3	johnny.english@gmail.com	123-456-7890	Active	

Items per page: 1 – 1 of 1

- View Account
- Update
- Revoke Access



SDA Bank

ATM Setup Clients Admin

Clients Lists

Filter
Filter Name

[+ New](#)

No.	Client Name	Address	Email	Contact#	Access	Actions
1.	Johnny English	3315 Van Horne Montreal, QC, H3S1R3	johnny.english@gmail.com	123-456-7890	Blocked	

Items per page: 1 – 1 of 1

- View Account
- Update
- Grant Access

Created User

- For now, User Code and User PIN will be viewed in the window console. Original plan is to send an email to the user with welcome notice and attached user code & user pin.
- The user can login using the following code.
 - User Code: **1653446888614**
 - User PIN: **123456**

```
1 {  
  -   "userAuth": {  
  -     "userCode": 1653446888614,  
  -     "userPin": 123456,  
  -     "pinUpdate": true,  
  -     "userType": "001",  
  -     "isBlocked": false,  
  -     "isEnabled": true,  
  -     "attempts": 0,  
  -     "_id": "628d9ad0d67774f433351272",  
  -     "createdAt": "2022-05-25T02:56:16.165Z",  
  -     "updatedAt": "2022-05-25T02:56:16.165Z"  
  -   },  
  -   "firstName": "Johny",  
  -   "lastName": "English",  
  -   "phoneNumber": "123-456-7890",  
  -   "address": {  
  -     "streetAddress": "3315 Van Horne",  
  -     "addressDesc": "",  
  -     "city": "Montreal",  
  -     "province": "QC",  
  -     "postal": "H3S1R3",  
  -     "_id": "628d9ad0d67774f433351273",  
  -     "createdAt": "2022-05-25T02:56:16.165Z",  
  -     "updatedAt": "2022-05-25T02:56:16.165Z"  
  -   },  
  -   "email": "johnny.english@gmail.com",  
  -   "accountStatus": true,  
  -   "_id": "628d9ad0d67774f433351271",  
  -   "createdAt": "2022-05-25T02:56:16.165Z",  
  -   "updatedAt": "2022-05-25T02:56:16.165Z",  
  -   "__v": 0  
  - }  
}
```

{ } Line 1, Column 1

Update User Information

To update the user information the user must select a user then use the actions menu > update as shown in image.

Clients Lists

Filter
Filter Name

+ New

No.	Client Name	Address	Email	Contact#	Access	Actions
1.	Johnny English	3315 Van Horne Montreal, QC, H3S1R3	johnny.english@gmail.com	123-456-7890	Active	<div><div>View Account</div><div>Update</div><div>Revoke Access</div></div>

Items per page: 10 1 - 1 of 1

Update User Information

You will be presented into a form.

We will modify the user phone number.

Client Update Form

First Name *
Johnny

Last Name *
English

Phone *
123-456-7890

Email *
johnhny.english@gmail.com

Street Address *
3315 Van Horne

Address 2
Address Second Line

City *
Montreal

Province *
QC

Postal *
H3S1R3

Cancel

Submit

Phone *
456-789-012

Update User Information

You will be presented into a form.

We will modify the user phone number.

On the top right is the data before the update and at the bottom you can see the updated record.

Clients Lists						
<div>Filter</div> <div>Filter Name</div>						
No.	Client Name	Address	Email	Contact#	Access	Actions
1.	Johnny English	3315 Van Horne Montreal, QC, H3S1R3	johnny.english@gmail.com	123-456-7890	Active	<div><div>View Account</div><div>Update</div><div>Revoke Access</div></div>
				Items per page: 10	1 – 1 of 1	

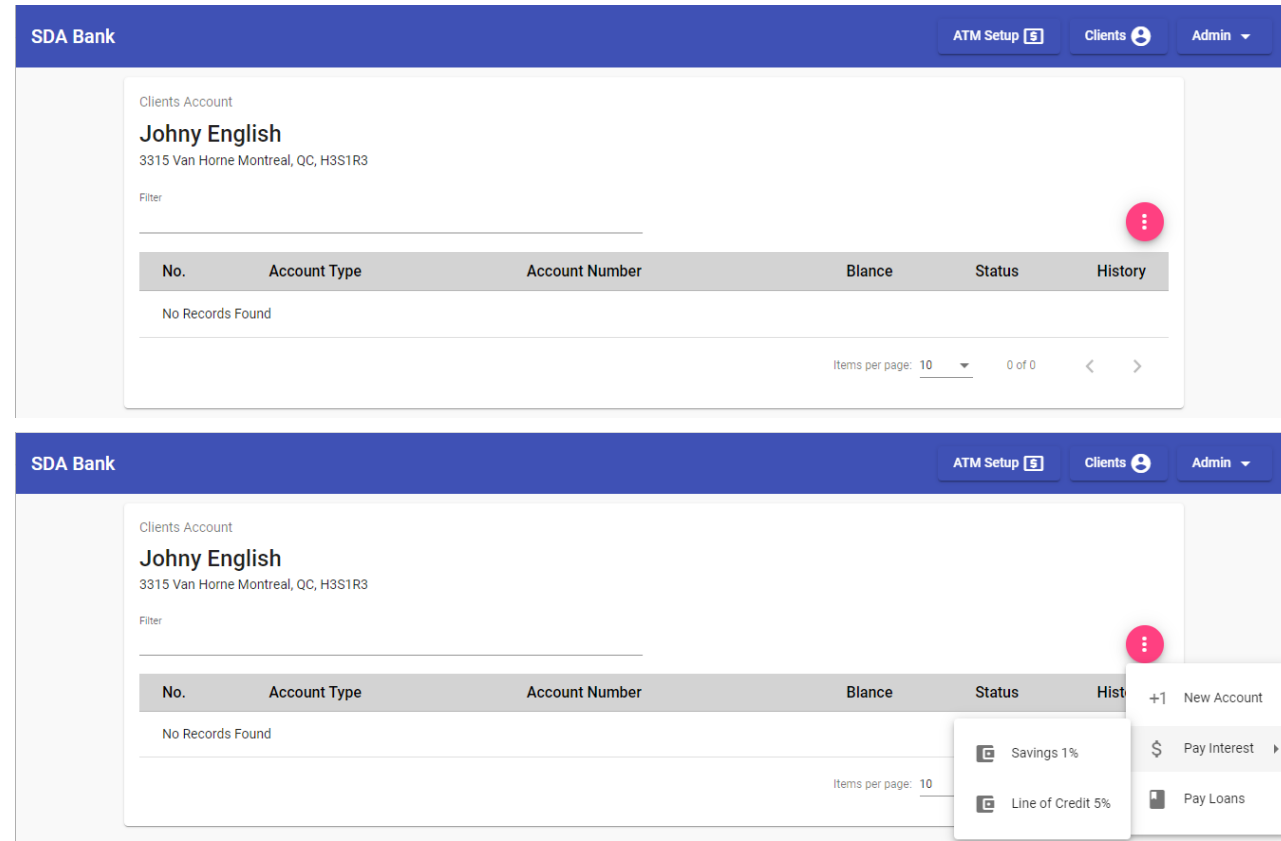
Clients Lists						
<div>Filter</div> <div>Filter Name</div>						
No.	Client Name	Address	Email	Contact#	Access	Actions
1.	Johnny English	3315 Van Horne Montreal, QC, H3S1R3	johnny.english@gmail.com	456-789-012	Active	<div><div></div><div></div><div></div></div>
				Items per page: 10	1 – 1 of 1	<div><div></div><div></div><div></div><div></div></div>

View Account

The view account will show user information and accounts.

User account has four menu.

- New Account – Open new account for user.
- Pay Loans – Pay any loans of user.
- Pay Interest
 - Savings – Increase savings account by 1%.
 - Line of Credit – Increase Line of Credit account by 5%.



Creating new Account

To be able to create other accounts, the user must first have a Chequing account.

The Account dropdown selection will only show 1 menu for now.

Account number is generated automatically.





First time deposit is not required.

The screenshot displays the SDA Bank web application interface. At the top, a blue navigation bar contains the 'SDA Bank' logo and three menu items: 'ATM Setup', 'Clients', and 'Admin'. The main content area is titled 'Clients Account' and features a card for 'Johny English' with the address '3315 Van Horne Montreal, QC, H3S1R3'. Below this is a table with columns: 'No.', 'Account Type', 'Account Number', 'Blance', 'Status', and 'History'. The table currently shows 'No Records Found'. A modal form titled 'Clients Account Form' is open, showing a dropdown for 'Select Account *', a text field for 'Account Number' with the value '1653449192316', and a 'First Time Deposit' field with a value of '\$ 0.00'. The form has 'Submit' and 'Cancel' buttons. A second, slightly larger modal form is also visible, showing the same fields but with a dropdown menu open for 'Select Account *', displaying 'Chequing' as the selected option.

Creating New Account

When an account is successfully created, it will automatically appear in the account list.

The history menu will show any transactions made for the selected account.

SDA Bank					
			ATM Setup 	Clients 	Admin 
Clients Account					
Johny English					
3315 Van Horne Montreal, QC, H3S1R3					
Filter					
No.	Account Type	Account Number	Blance	Status	History
1.	Chequing	1653449192316	\$0.00	Active	
Items per page: 10 1 - 1 of 1 < >					

Creating New Account

When an account is successfully created, it will automatically appear in the account list.

The history menu will show any transactions made for the selected account.

When creating another account, the account creation will now show other accounts.

For this user we will create multiple accounts.

Account Number

Clients Account Form

--

Chequing

Savings

Mortgage

Line Of Credit

Submit

Cancel

SDA Bank					
ATM Setup					
Clients					
Admin					
Clients Account					
Johnny English					
3315 Van Horne Montreal, QC, H3S1R3					
Filter					
No.	Account Type	Account Number	Blance	Status	History
1.	Chequing	1653449192316	\$0.00	Active	
2.	Savings	1653449585809	\$500.00	Active	
Items per page: 10 1 - 2 of 2 < >					

SDA Bank					
ATM Setup					
Clients					
Admin					
Clients Account					
Johnny English					
3315 Van Horne Montreal, QC, H3S1R3					
Filter					
No.	Account Type	Account Number	Blance	Status	History
1.	Chequing	1653449192316	\$0.00	Active	
2.	Savings	1653449585809	\$500.00	Active	
3.	Mortgage	1653449764907	\$1,000.00	Active	
4.	Line Of Credit	1653449779140	\$0.00	Active	
Items per page: 10 1 - 4 of 4 < >					

Account Transactions

Account transaction will appear posted automatically.

I am showing the savings & mortgage transactions when I initially created the accounts.

The screenshot displays the SDA Bank web interface. At the top, there's a blue header with 'SDA Bank' on the left and 'ATM Setup', 'Clients', and 'Admin' on the right. Below the header, the 'Clients Account' section shows 'Johnny English' with address '3315 Van Horne Montreal, QC, H3S1R3'. A 'Filter' input is present. A modal window titled 'Account Transactions' is open, showing a table of transactions for account number 1653449585809. The table has columns: Created, State, #, Description, and Value. One transaction is listed: May 24, 2022, Posted, 0001, Initial Deposit, \$500.00. The modal also includes a 'Close' button and pagination controls.

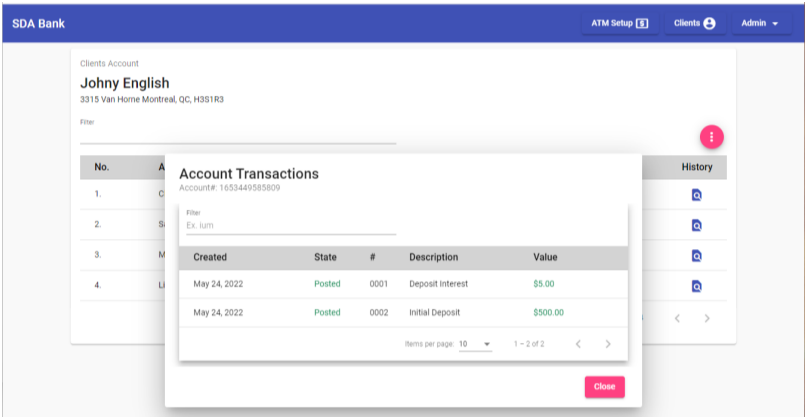
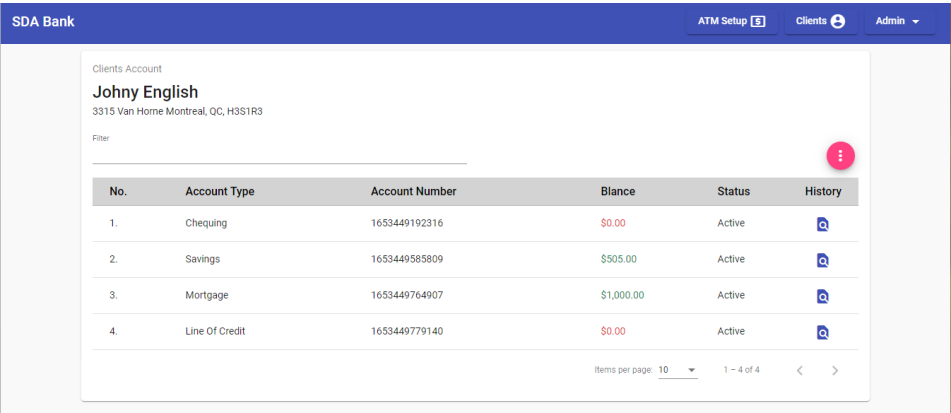
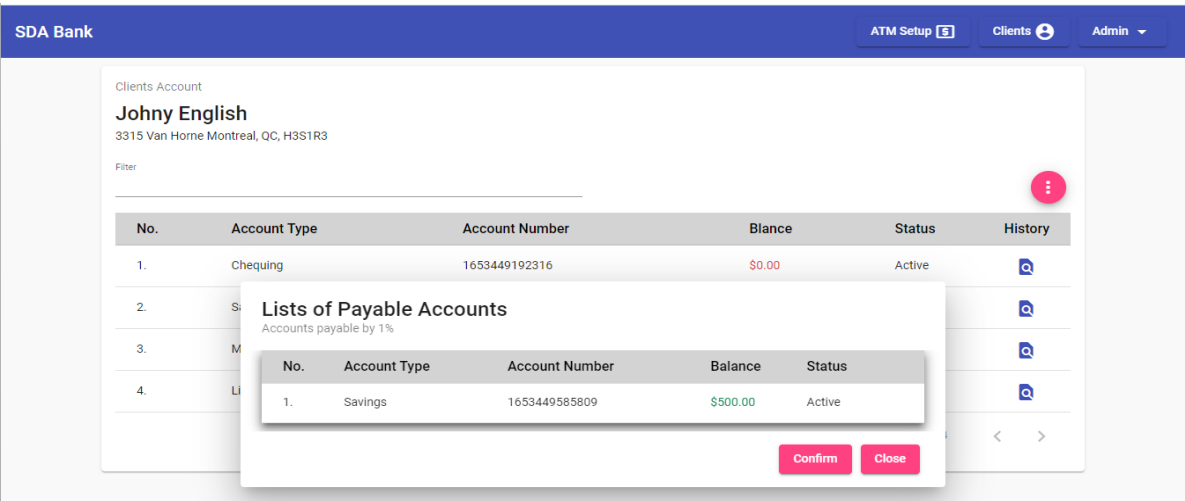
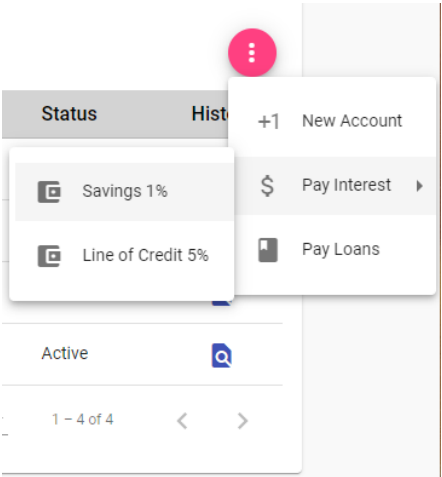
Created	State	#	Description	Value
May 24, 2022	Posted	0001	Initial Deposit	\$500.00

This screenshot is similar to the one above, showing the SDA Bank interface for 'Johnny English'. The modal window 'Account Transactions' is open for account number 1653449764907. The table shows a transaction: May 24, 2022, Posted, 0001, Bank Loan, \$1,000.00. The modal includes a 'Close' button and pagination controls.

Created	State	#	Description	Value
May 24, 2022	Posted	0001	Bank Loan	\$1,000.00

Paying 1% interest to all Savings Accounts

Clicking the Pay Interest > Savings 1% will show available accounts to pay 1% interest for the selected user only.

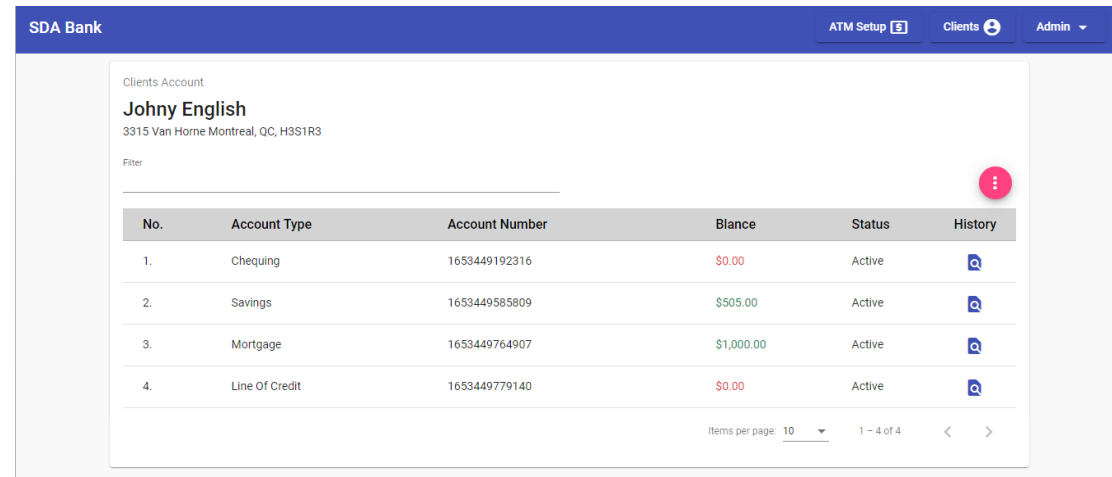


Paying 1% interest to all Savings Accounts

The image above confirms that the transaction is successful.

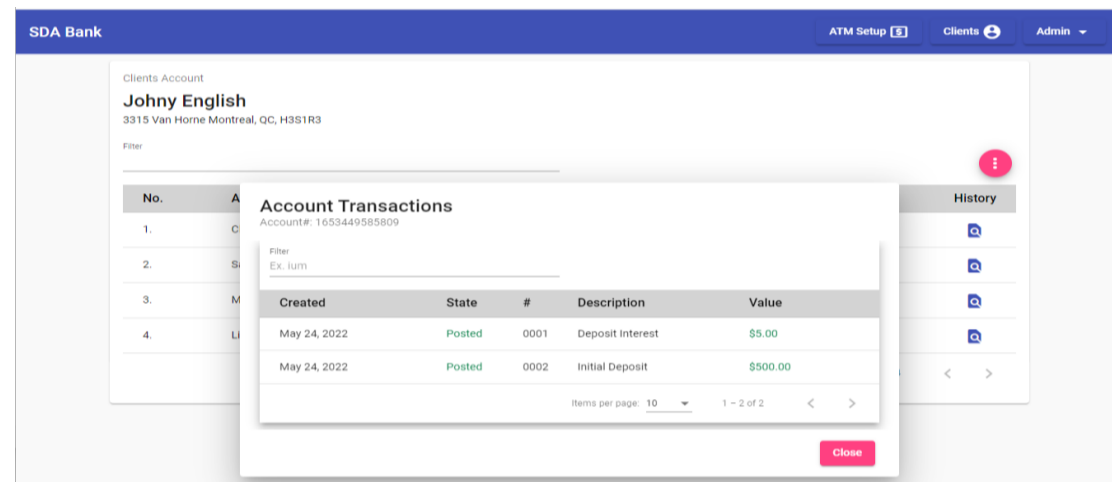
The image below shows history that the account is indeed paid 1% interest.

** We will do the Line of Credit later in the slide, since we are unable to charge if the account has zero balance.*



No.	Account Type	Account Number	Balance	Status	History
1.	Chequing	1653449192316	\$0.00	Active	
2.	Savings	1653449585809	\$505.00	Active	
3.	Mortgage	1653449764907	\$1,000.00	Active	
4.	Line Of Credit	1653449779140	\$0.00	Active	

Items per page: 10 1 - 4 of 4



Created	State	#	Description	Value
May 24, 2022	Posted	0001	Deposit Interest	\$5.00
May 24, 2022	Posted	0002	Initial Deposit	\$500.00

Items per page: 10 1 - 2 of 2

Close

ATM Setup

The deposit form will only allow specified amount as follows:

- \$5,000.00
- \$10,000.00
- \$15,000.00
- \$20,000.00

SDA Bank

ATM Setup [S] Clients Admin

ATM Dashboard

Filter
Ex. Mia

Posted Date	Status	No.	Account #
-------------	--------	-----	-----------

Items per page: 10 0 of 0

Deposit

SDA Bank

ATM Setup [S] Clients Admin

ATM Dashboard

Filter
Ex. Mia

Posted Date	Status	No.	Account #	Amount
-------------	--------	-----	-----------	--------

Items per page: 10 0 of 0

ATM Deposit Form

ATM Balance:

\$0.00

\$5,000.00 \$10,000.00

\$15,000.00 \$20,000.00




Submit Cancel

Deposit ATM Balance

We will deposit an initial amount of \$5,000.00 for our ongoing testing.

When a deposit is successfully posted it will show in our history table instantly.

SDA Bank

ATM Setup  Clients  Admin 

ATM Dashboard

Filter
Ex. Mia

Posted Date

Status

No.

Account #

Amount

Items per page: 10 0 of 0 < >

ATM Deposit Form

ATM Balance:
\$5,000.00

\$5,000.00

\$10,000.00




\$15,000.00

\$20,000.00

Submit

Cancel

SDA Bank

ATM Setup  Clients  Admin 

ATM Dashboard

Balance: \$5,000.00

Filter
Ex. Mia

Posted Date

Status

No.

Account #

Amount

May 25, 2022

Posted

00001

\$5,000.00

Items per page: 10 0 of 0 < >

Login as Client

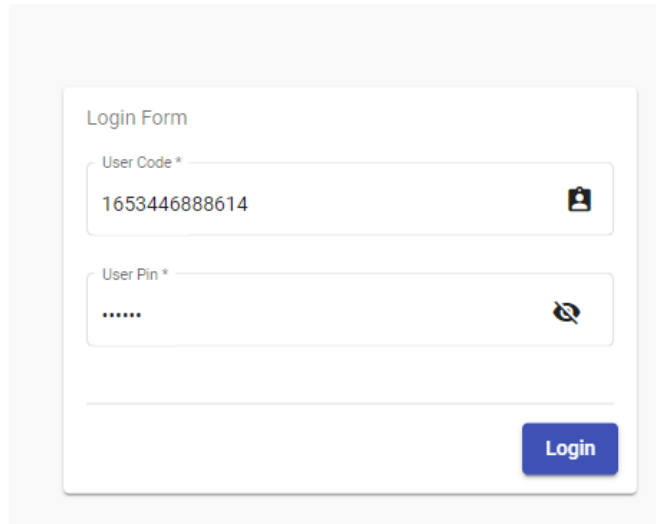
We will use a client that we created.

User Code: 1653446888614

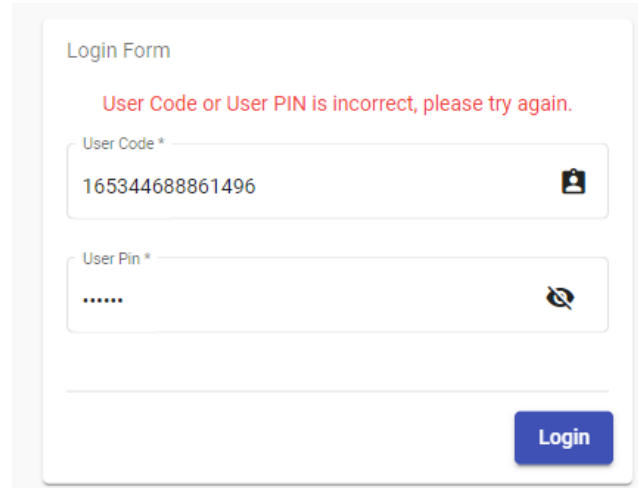
User PIN: 123456

Errors will be displayed whenever a user tries to login with invalid credentials.

Users will be locked out if he tries to login with incorrect PIN three times.

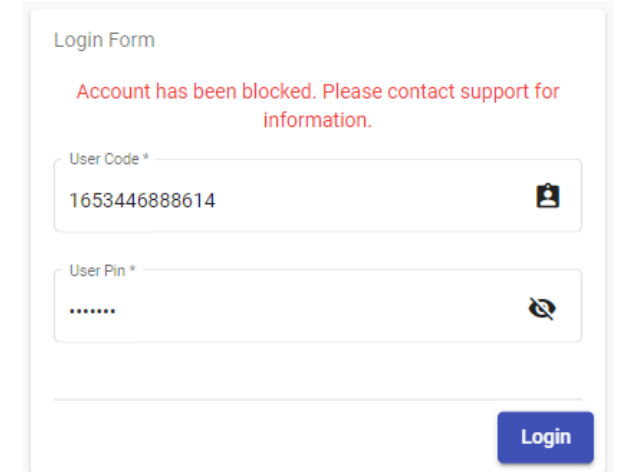


A screenshot of a login form titled "Login Form". It contains two input fields: "User Code *" with the value "1653446888614" and a user icon, and "User Pin *" with masked characters "*****" and a toggle icon. A blue "Login" button is at the bottom right.



A screenshot of a login form titled "Login Form" showing an error message: "User Code or User PIN is incorrect, please try again." in red. The "User Code *" field contains "165344688861496" and the "User Pin *" field contains masked characters "*****". A blue "Login" button is at the bottom right.

Error message with incorrect User Code or PIN



A screenshot of a login form titled "Login Form" showing an error message: "Account has been blocked. Please contact support for information." in red. The "User Code *" field contains "1653446888614" and the "User Pin *" field contains masked characters "*****". A blue "Login" button is at the bottom right.

Error message that was locked out after retrying three times.

Login as Client

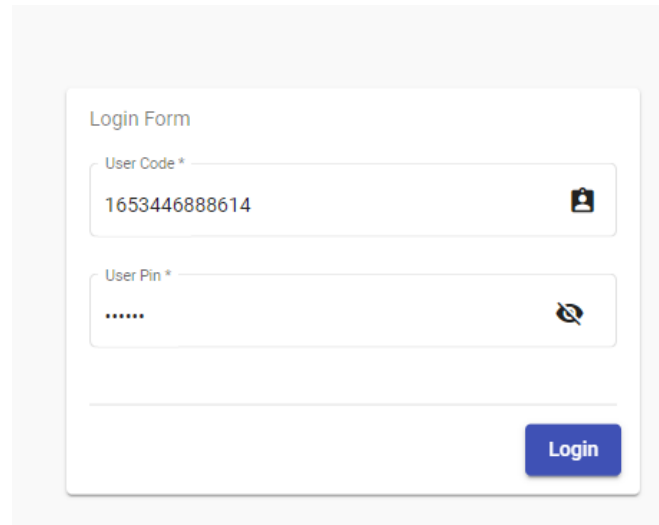
We will use a client that we created.

User Code: 1653446888614

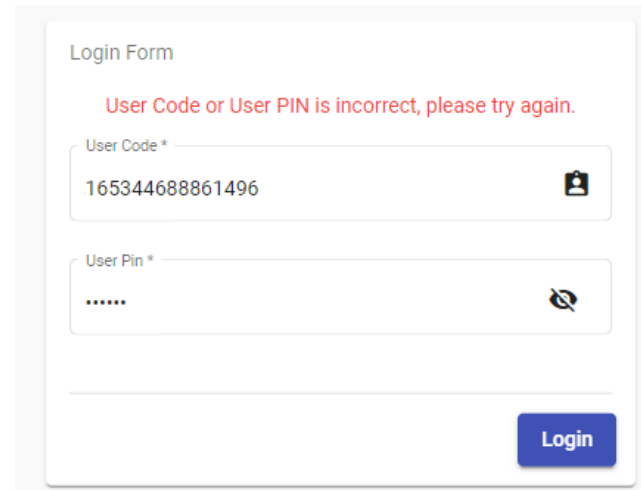
User PIN: 123456

Errors will be displayed whenever a user tries to login with invalid credentials.

Users will be locked out if he tries to login with incorrect PIN three times.

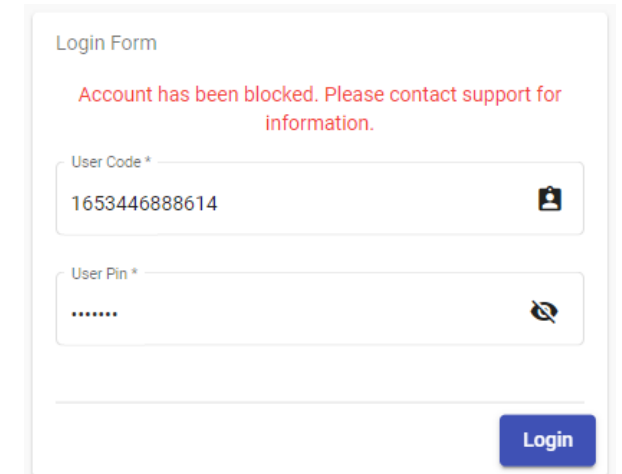


A screenshot of a web login form titled "Login Form". It contains two input fields: "User Code *" with the value "1653446888614" and a user icon, and "User Pin *" with masked characters "*****" and an eye icon. A blue "Login" button is at the bottom right.



A screenshot of the same login form, but with an error message in red text: "User Code or User PIN is incorrect, please try again." The "User Code" field now contains "165344688861496". The "User Pin" field remains masked. The "Login" button is still present.

Error message with incorrect User Code or PIN



A screenshot of the login form with a red error message: "Account has been blocked. Please contact support for information." The "User Code" field contains "1653446888614" and the "User Pin" field is masked. The "Login" button is at the bottom right.

Error message that was locked out after retrying three times.

Login as Client

After we login as Administrator again we confirmed that the user has been locked out by the system.

We will unblock the user and pretend to give him a temporary password.

SDA Bank

ATM Setup1ClientsAdmin

Clients Lists

Filter
Filter Name

+ New

No.	Client Name	Address	Email	Contact#	Access	Actions
1.	Johny English	3315 Van Horne Montreal, QC, H3S1R3	johnny.english@gmail.com	123-456-7890	Blocked	<div></div>

Items per page: 101 - 1 of 1<<<>>>

Clients Lists

Filter
Filter Name

+ New

No.	Client Name	Address	Email	Contact#	Access	Actions
1.	Johny English	3315 Van Horne Montreal, QC, H3S1R3	johnny.english@gmail.com	123-456-7890	Blocked	<div><div>View Account</div><div>Update</div><div>Grant Access</div></div>

Items per page: 101 - 1 of 1

SDA Bank

ATM Setup1ClientsAdmin

Clients Lists

Filter
Filter Name

+ New

No.	Client Name	Address	Email	Contact#	Access	Actions
1.	Johny English	3315 Van Horne Montreal, QC, H3S1R3	johnny.english@gmail.com	123-456-7890	Active	<div></div>

Items per page: 101 - 1 of 1<<<>>>

Login as Client

After successfully login the system will ask the user to update his PIN.

We will use the same PIN “123456”

Jonhy will be redirected to his own account dashboard.

Login Form

User Code *

1653446888614

User Pin *

.....

Login

PIN Update Form

New PIN *

.....

Confirm PIN *

.....

Submit

Cancel

SDA Bank

Johnny

Johnny English

3315 Van Horne, Montreal, QC, H3S1R3

Filter

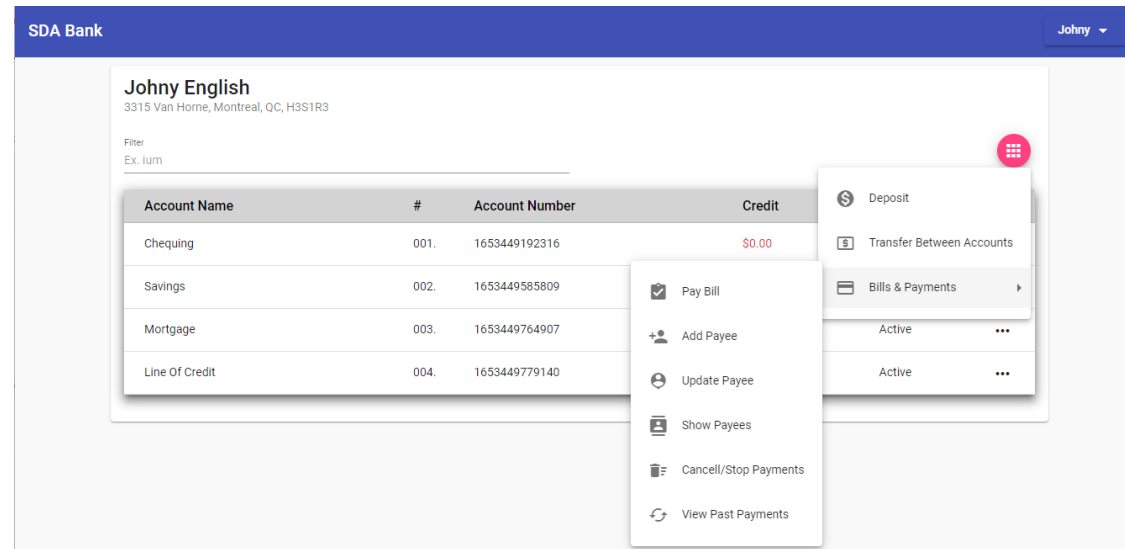
Ex. ium

Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$0.00	Active	...
Savings	002.	1653449585809	\$505.00	Active	...
Mortgage	003.	1653449764907	\$1,000.00	Active	...
Line Of Credit	004.	1653449779140	\$0.00	Active	...

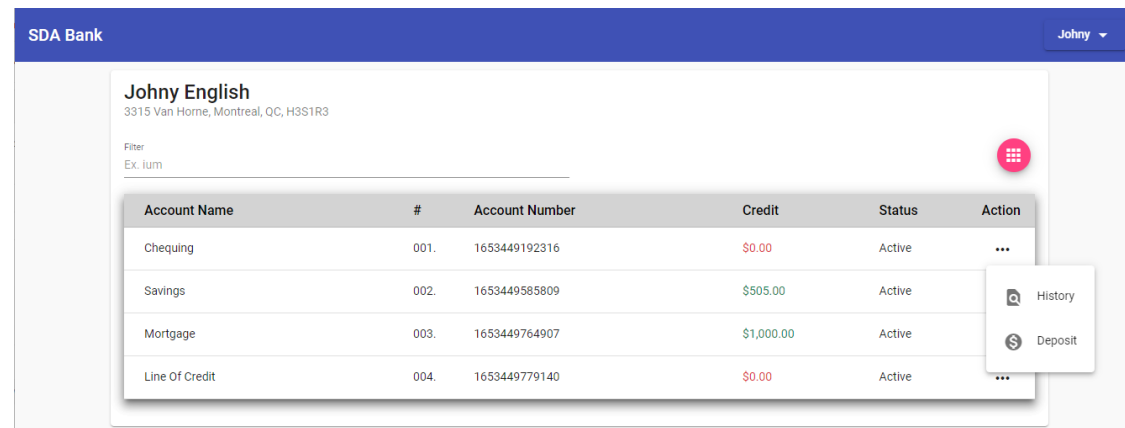
Clients Account Dashboard

Menus:

- Deposit – Handles deposit transaction to selected account.
- Transfer – Handles transfer transaction to a selected account.
- Bill & Payments
 - Pay Bill
 - Add Payee – Register a payee.
- History – Shows transaction history to a selected account

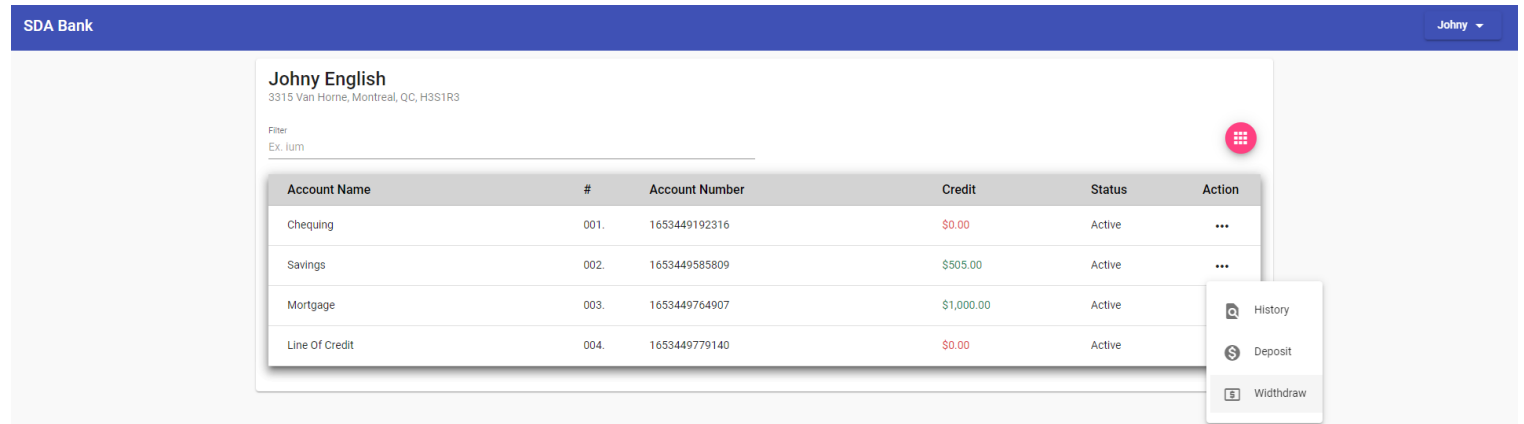


Other menu under Bill & Payment is not working for and will be develop for future purposes.



Account Withdrawal

After clicking the “Withdraw” button you will see a form as shown below.



SDA Bank

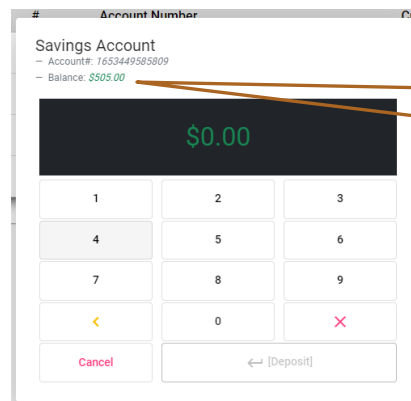
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Filter
Ex. lumn

Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$0.00	Active	...
Savings	002.	1653449585809	\$505.00	Active	...
Mortgage	003.	1653449764907	\$1,000.00	Active	...
Line Of Credit	004.	1653449779140	\$0.00	Active	...

- History
- Deposit
- Withdraw

The system will only show the “*Withdraw*” menu if the Savings or Chequing account have a positive balance.

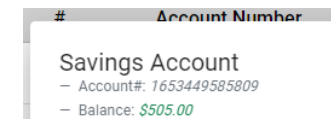


Account Number

Savings Account
- Account#: 1653449585809
- Balance: \$505.00

\$0.00

1 2 3
4 5 6
7 8 9
< 0 X
Cancel [Deposit]



Account Number

Savings Account
- Account#: 1653449585809
- Balance: \$505.00

Account Withdrawal

Here is the sample error message if the system is not satisfied with the user input.

Savings Account

Account#: 1653449585809

Balance: \$505.00

The ATM is only able to dispense an amount divisible by 10.

\$11.00

1

2

3

4

5

6

7

8

9

<

0

×

Cancel

← [Submit]

Savings Account

Account#: 1653449585809

Balance: \$505.00

Insuficient ATM Balance, you can only withdraw up to \$5000.00

\$6,000.00

1

2

3

4

5

6

7

8

9

<

0

×

Cancel

← [Submit]

Account Withdrawal

The system will allow users to withdraw an amount that is over his maintaining balance if the user have line of credit account.

The split amount will be automatically allotted between the two accounts.

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Filter

Ex. ium

Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$0.00	Active	...
Savings	002.	1653449585809	\$505.00	Active	...
Mortgage	003.	1653449764907	\$1,000.00	Active	...
Line Of Credit	004.	1653449779140	\$0.00	Active	...

Savings Account

Account#: 1653449585809

Balance: \$505.00

\$600.00

1

2

3

4

5

6

7

8

9

<

0

×

Cancel

← [Submit]

Line of credit balance before withdrawal.

Amount being withdrawn is higher than the user's balance.

Account Withdrawal

After successful transaction, the system will post each transaction in the account history on each account.

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Filter
Ex. ium

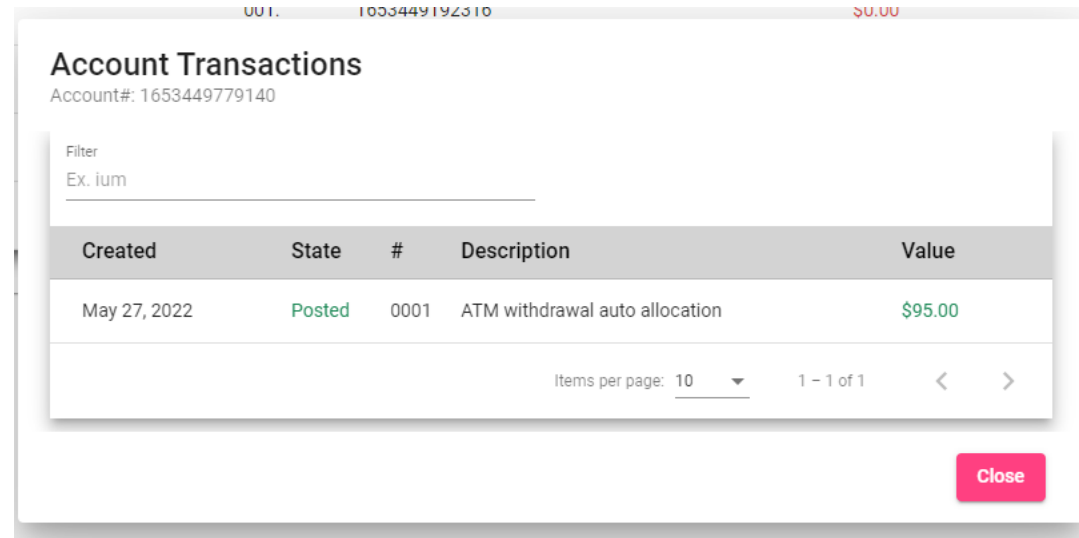
Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$0.00	Active	...
Savings	002.	1653449585809	\$0.00	Active	...
Mortgage	003.	1653449764907	\$1,000.00	Active	...
Line Of Credit	004.	1653449779140	\$95.00	Active	...

Savings balance after withdrawal.

Line of Credit account after successful withdrawal

Withdrawal History

In the account history we can see each transaction is successfully posted.



001. 1653449192310 \$0.00

Account Transactions

Account#: 1653449779140

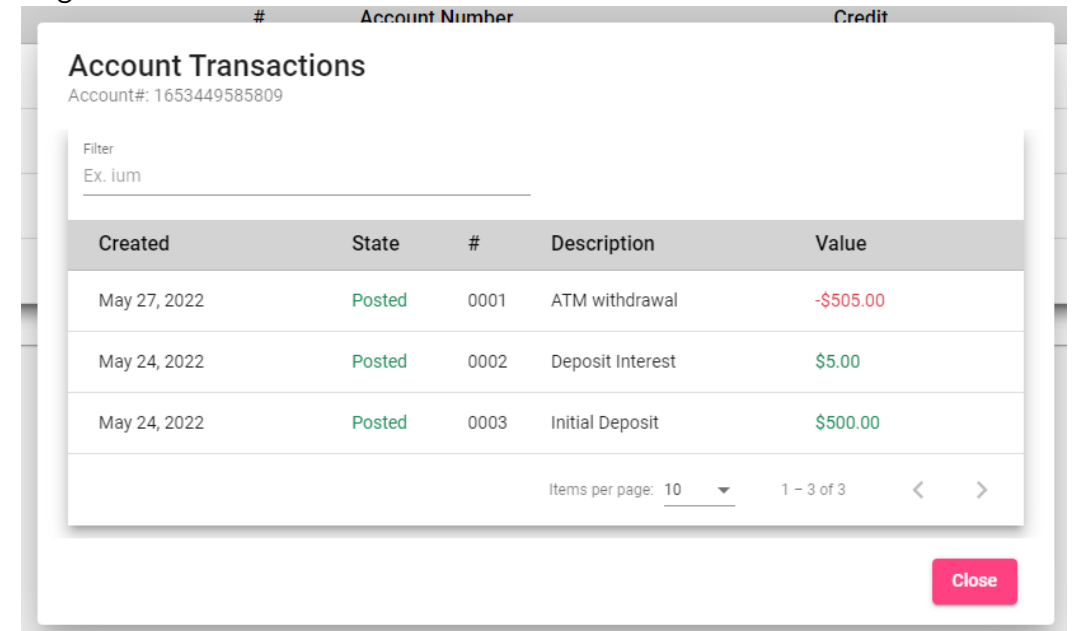
Filter
Ex. ium

Created	State	#	Description	Value
May 27, 2022	Posted	0001	ATM withdrawal auto allocation	\$95.00

Items per page: 10 1 - 1 of 1 < >

Close

Line of Credit account history



Account Number Credit

Account Transactions

Account#: 1653449585809

Filter
Ex. ium

Created	State	#	Description	Value
May 27, 2022	Posted	0001	ATM withdrawal	-\$505.00
May 24, 2022	Posted	0002	Deposit Interest	\$5.00
May 24, 2022	Posted	0003	Initial Deposit	\$500.00

Items per page: 10 1 - 3 of 3 < >

Close

Savings account history

Account Deposits

There were two ways of depositing an amount on the system.

1. Clicking the menu button > deposit.
2. Choose an account then deposit.

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Filter
Ex. ium

Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$0.00	Active	...
Savings	002.	1653449585809	\$0.00	Active	...
Mortgage	003.	1653449764907	\$1,000.00	Active	...
Line Of Credit	004.	1653449779140	\$95.00	Active	...

Deposit

Transfer Between Accounts

Bills & Payments

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Filter
Ex. ium

Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$0.00	Active	...
Savings	002.	1653449585809	\$0.00	Active	...
Mortgage	003.	1653449764907	\$1,000.00	Active	...
Line Of Credit	004.	1653449779140	\$95.00	Active	...

History

Deposit

Account Deposits

The ATM balance is also updated.

ATM Setup

Clients

ATM Dashboard

Balance: \$4,400.00

Filter
Ex. Mia

Posted Date	Status	No.	Account #	Amount
May 25, 2022	Posted	00001	1653449585809	-\$600.00
May 25, 2022	Posted	00002		\$5,000.00

Items per page: 101 – 2 of 2

Account Deposits

If the user choose option #1, he will be prompted by a form that lets him choose which account he would like to make the transaction.

**Mortgage Account & Line of Credit account will reverse the amount being deposited.*

Chequing Account
- Account#: 1653449192316
- Account#: \$0.00

Select Account
1653449192316

\$0.00

1 2 3
4 5 6
7 8 9
< 0 X
Cancel [Deposit]

Chequing
1653449192316
Savings
1653449585809
Mortgage
1653449764907

Account Deposits

We will choose to deposit in Chequing account.

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Filter

Ex. ium

Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$0.00	Active	...
Savings	002.	1653449585809	\$0.00	Active	...
Mortgage	003.	1653449764907	\$1,000.00	Active	...
Line Of Credit	004.	1653449779140	\$95.00	Active	...

Chequing Account

Account#: 1653449192316

Account#: \$0.00

Select Account

1653449192316

\$900.00

1

2

3

4

5

6

7

8

9

<

0

×

Cancel

← [Deposit]

Account Deposits

We will choose to deposit in Chequing account.

We can validate the transaction by viewing the account history.

* Account deposits will increase the available credit of the selected account. The ATM balance will stay the same.

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Filter
Ex. ium

Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$900.00	Active	...
Savings	002.	1653449585809	\$0.00	Active	...
Mortgage	003.	1653449764907	\$1,000.00	Active	...
Line Of Credit	004.	1653449779140	\$95.00	Active	...

001.1653449192316\$900.00

Account Transactions
Account#: 1653449192316

Filter
Ex. ium

Created	State	#	Description	Value
May 27, 2022	Posted	0001	ATM Deposit	\$900.00

Items per page: 101 - 1 of 1<>

Close

Account Transfers

Account transfers will be done by clicking the menu button > transfer between my account.

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Filter
Ex. lumn

Account Name	#	Account Number	Credit	Status	Acti
Chequing	001.	1653449192316	\$900.00	Active	..
Savings	002.	1653449585809	\$0.00	Active	..
Mortgage	003.	1653449764907	\$1,000.00	Active	...
Line Of Credit	004.	1653449779140	\$95.00	Active	...

Deposit

Transfer Between Accounts

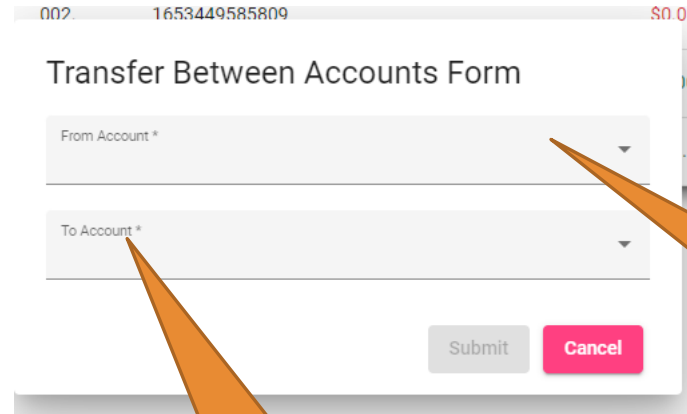
Bills & Payments

Account Transfers

The user will be presented to a form which he can choose an account to begin the transaction.

The “From Account” will only show accounts that has positive balance.

After selecting an account, the “To Account” selector will show accounts that you can transact.



002 1653449585809 \$0.00

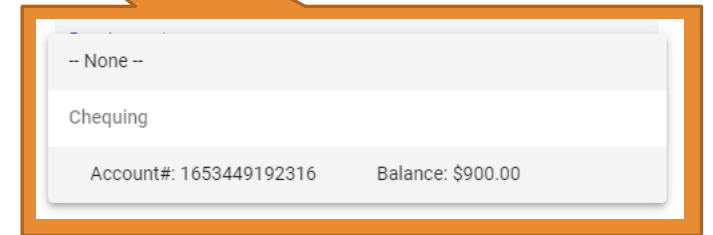
Transfer Between Accounts Form

From Account *

To Account *

Submit Cancel

This form is used for transferring funds between accounts. It features two dropdown menus for selecting the 'From Account' and 'To Account'. The 'From Account' dropdown is currently empty, while the 'To Account' dropdown shows a list of available accounts. Below the dropdowns are 'Submit' and 'Cancel' buttons.

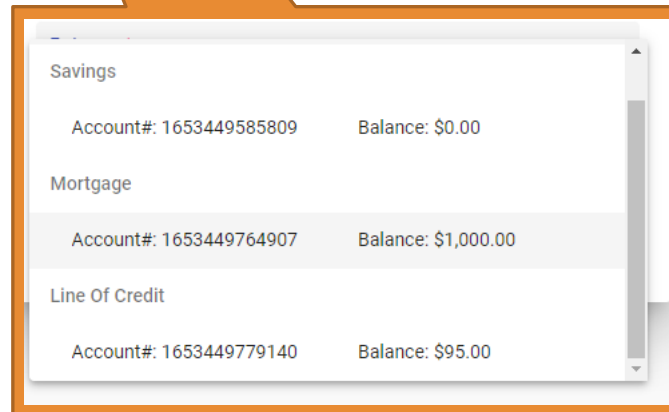


-- None --

Chequing

Account#: 1653449192316 Balance: \$900.00

This inset shows the 'To Account' dropdown menu. It displays a list of accounts, with 'Chequing' selected. The account number and balance are shown below the selection.



Savings

Account#: 1653449585809 Balance: \$0.00

Mortgage

Account#: 1653449764907 Balance: \$1,000.00

Line Of Credit

Account#: 1653449779140 Balance: \$95.00

This inset shows the 'From Account' dropdown menu. It displays a list of accounts, with 'Savings' selected. The account number and balance are shown below the selection.

Account Transfers

After selecting an account to transact the system will ask for transfer amount.

* If the user has a line of credit, the split amount will be posted to each accounts.

001. 1653449192316 \$900.00

Transfer Between Accounts Form

From Account *
Account#: 1653449192316 Balance: \$900.00

To Account *
Account#: 1653449585809 Balance: \$0.00

Amount *
\$ 100.00

\$100.00 will be automatically allocated to line of credit account.

Submit Cancel

001. 1653449192316 \$900.00

Transfer Between Accounts Form

From Account *
Account#: 1653449192316 Balance: \$900.00

To Account *
Account#: 1653449779140 Balance: \$95.00

Amount *
\$ 1000.00

Not enough balance to transfer.

Submit Cancel

Transfer Between Accounts Form

From Account *
Account#: 1653449192316 Balance: \$900.00

To Account *
Account#: 1653449585809 Balance: \$0.00

Amount *
\$ 500.00

Submit Cancel

Account Transfers

If the user wish to transfer from Chequing/Savings to Line of Credit account, the system will only allow a transfer if the user has enough balance.

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Filter

Ex. ium

Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$900.00	Active	...
Savings	002.	1653449585809	\$0.00	Active	...
Mortgage	003.	1653449764907	\$1,000.00	Active	...
Line Of Credit	004.	1653449779140	\$95.00	Active	...

001. 1653449192316 \$900.00

Transfer Between Accounts Form

From Account *

Account#: 1653449192316 Balance: \$900.00

To Account *

Account#: 1653449779140 Balance: \$95.00

Amount *

\$ 1000.00

Not enough balance to transfer.

Submit

Cancel

Transfer Between Accounts Form

From Account *

Account#: 1653449192316 Balance: \$900.00

To Account *

Account#: 1653449779140 Balance: \$95.00

Amount *

\$ 100.00

Submit

Cancel

Account Transfers

From Chequing to Savings account balance transfer.

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Filter

Ex. ium



Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$900.00	Active	...
Savings	002.	1653449585809	\$0.00	Active	...
Mortgage	003.	1653449764907	\$1,000.00	Active	...
Line Of Credit	004.	1653449779140	\$95.00	Active	...

Transfer Between Accounts Form

From Account *

Account#: 1653449192316 Balance: \$900.00

To Account *

Account#: 1653449585809 Balance: \$0.00

Amount *

\$ 100.00

Submit

Cancel

Account Transfers

After successfully transferred an amount, we can verify it in the transaction history.

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Filter

Ex. ium

Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$800.00	Active	...
Savings	002.	1653449585809	\$100.00	Active	...
Mortgage	003.	1653449764907	\$1,000.00	Active	...
Line Of Credit	004.	1653449779140	\$95.00	Active	...

Account Transactions

Account#: 1653449192316

Filter

Ex. ium

Created	State	#	Description	Value
May 27, 2022	Posted	0001	Account transfer to chequing	-\$100.00
May 27, 2022	Posted	0002	ATM Deposit	\$900.00

Items per page: 10 1 - 2 of 2

Close

Account Transactions

Account#: 1653449585809

Filter

Ex. ium

Created	State	#	Description	Value
May 27, 2022	Posted	0001	Account transfer from savings	\$100.00
May 27, 2022	Posted	0002	ATM withdrawal	-\$505.00
May 24, 2022	Posted	0003	Deposit Interest	\$5.00
May 24, 2022	Posted	0004	Initial Deposit	\$500.00

Items per page: 10 1 - 4 of 4

Close

Account Transfers

Chequing to Mortgage Transaction.

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Filter

Ex. ium

Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$800.00	Active	...
Savings	002.	1653449585809	\$100.00	Active	...
Mortgage	003.	1653449764907	\$1,000.00	Active	...
Line Of Credit	004.	1653449779140	\$95.00	Active	...

Transfer Between Accounts Form

From Account *	Account#: 1653449192316	Balance: \$800.00	▼
To Account *	Account#: 1653449764907	Balance: \$1,000.00	▼
Amount *	\$ 100.00		

Submit

Cancel

Account Transfers

Again, we can confirm the Transaction by viewing the account history.

Johny English

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Filter
Ex. ium

Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$700.00	Active	...
Savings	002.	1653449585809	\$100.00	Active	...
Mortgage	003.	1653449764907	\$900.00	Active	...
Line Of Credit	004.	1653449779140	\$95.00	Active	...

Account Transactions

Account#: 1653449192316

Filter
Ex. ium

Created	State	#	Description	Value
May 27, 2022	Posted	0001	Account transfer to chequing	-\$100.00
May 27, 2022	Posted	0002	Account transfer to chequing	-\$100.00
May 27, 2022	Posted	0003	ATM Deposit	\$900.00

Items per page: 10 1 - 3 of 3 < >

Close

Account Transactions

Account#: 1653449764907

Filter
Ex. ium

Created	State	#	Description	Value
May 27, 2022	Posted	0001	Thank you! payment chequing transfer.	-\$100.00
May 24, 2022	Posted	0002	Bank Loan	\$1,000.00

Items per page: 10 1 - 2 of 2 < >

Close

Account Transfers

Chequing to Line of Credit
Transfer transaction.

Johnny English

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Filter

Ex. ium



Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$700.00	Active	...
Savings	002.	1653449585809	\$100.00	Active	...
Mortgage	003.	1653449764907	\$900.00	Active	...
Line Of Credit	004.	1653449779140	\$95.00	Active	...

Transfer Between Accounts Form

From Account *

Account#: 1653449192316

Balance: \$700.00

To Account *

Account#: 1653449779140

Balance: \$95.00

Amount *

\$

95.00

Submit

Cancel

Account Transfers

We can verify the transaction by looking into account history.

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Filter

Ex. ium

Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$605.00	Active	...
Savings	002.	1653449585809	\$100.00	Active	...
Mortgage	003.	1653449764907	\$900.00	Active	...
Line Of Credit	004.	1653449779140	\$0.00	Active	...

Account Transactions

Account#: 1653449192316

Filter

Ex. ium

Created	State	#	Description	Value
May 27, 2022	Posted	0001	Account transfer to chequing	-\$95.00
May 27, 2022	Posted	0002	Account transfer to chequing	-\$100.00
May 27, 2022	Posted	0003	Account transfer to chequing	-\$100.00
May 27, 2022	Posted	0004	ATM Deposit	\$900.00

Items per page: 10 1 - 4 of 4

Close

Account Transactions

Account#: 1653449779140

Filter

Ex. ium

Created	State	#	Description	Value
May 27, 2022	Posted	0001	Thank you! payment chequing transfer.	-\$95.00
May 27, 2022	Posted	0002	ATM withdrawal auto allocation	\$95.00

Items per page: 10 1 - 2 of 2

Close

Pay Bills

To Pay a bill the user must click on the menu button > Bills & Payments.

Johnny English

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Filter

Ex. ium

Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$605.00	Active	⋮
Savings	002.	1653449585809	\$100.00		
Mortgage	003.	1653449764907	\$900.00		
Line Of Credit	004.	1653449779140	\$0.00		

Deposit

Transfer Between Accounts

Bills & Payments

Pay Bill

Add Payee

Update Payee

Show Payees

Cancel/Stop Payments

View Past Payments

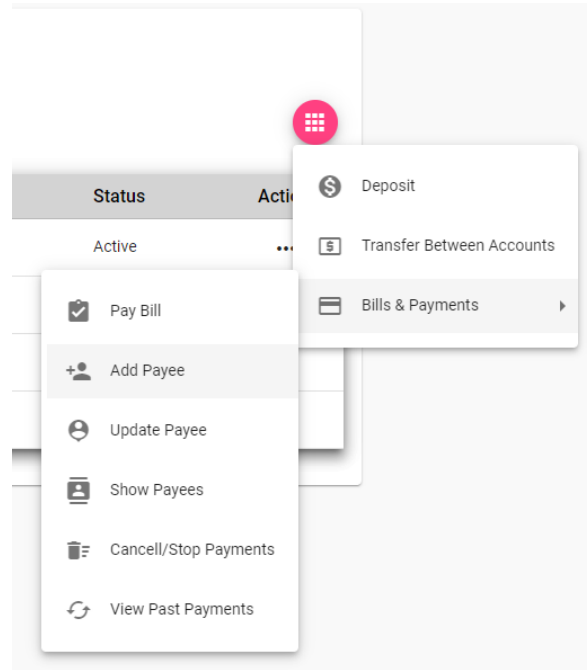
Pay Bills

Before the user can make a payment, he will need to enroll a payee to his account.

This can be done by clicking the menu button > Add Payee.

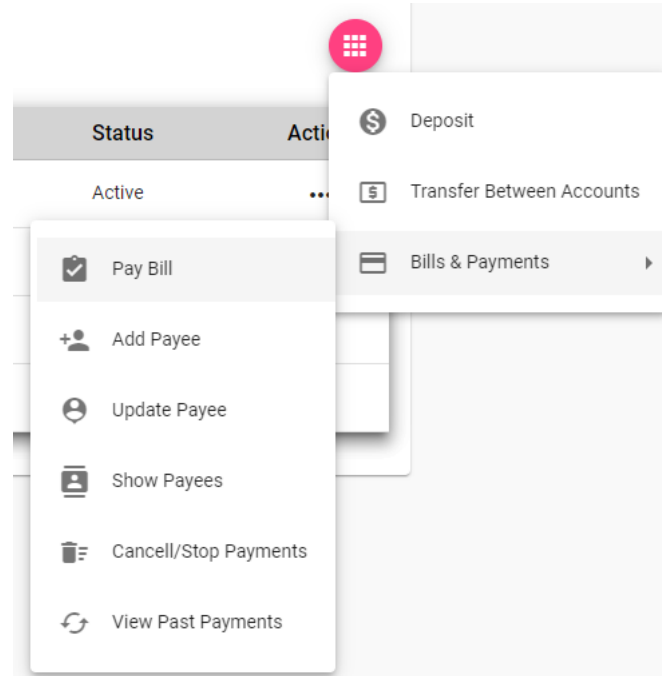
For testing purposes, the account number is auto generated by the system.

The user will only need to provide an account name.

A screenshot of a form titled 'Add Payee Form'. It contains two input fields. The first field is labeled 'Account Name *' and contains the text 'Fido Express'. Below it, there's a character count 'Max 10 characters' and a length indicator '12/20'. The second field is also labeled 'Account Name *' (though it should be a number) and contains the text '1653674211332'. Below it, there's a character count 'Max 15 characters' and a length indicator '13/15'. At the bottom right of the form are two buttons: 'Submit' (in blue) and 'Cancel' (in white).

Pay Bills

To pay a bill the user will have to click on the menu button > Pay Bill.



001. 1653449192316 \$6

Pay Bills Form

\$1.25 transaction fee will be automatically included.

Select Account * ▼

Select Customer * ▼

Amount * \$ 0.00

Submit Cancel

Pay Bills

To pay a bill the user will have to click on the menu button > Pay Bill.

The image shows a 'Pay Bills Form' interface. At the top, it displays '001.' and '1653449192316' on the left, and a vertical currency scale on the right ranging from '\$0' to '\$6'. The form title is 'Pay Bills Form'. Below the title, a message states: '\$1.25 transaction fee will be automatically included.' The form contains three input fields: 'Select Account *', 'Select Customer *', and 'Amount *' (with a '\$' symbol). At the bottom right are 'Submit' and 'Cancel' buttons. Two orange callout boxes point to the dropdown menus. The left callout points to the 'Select Account *' dropdown, which shows a 'Clear' button and the text 'Fido Express - 1653674841148'. The right callout points to the 'Select Customer *' dropdown, which shows a 'Clear' button, the text 'Chequing', and account details: 'Account#: 1653449192316' and 'Balance: \$605.00'.

001. 1653449192316 \$6

Pay Bills Form

\$1.25 transaction fee will be automatically included.

Select Account *

Select Customer *

Amount *

\$

Submit Cancel

Clear

Fido Express - 1653674841148

\$

Clear

Chequing

Account#: 1653449192316 Balance: \$605.00

Pay Bills

After paying a bill we can verify that the transaction have been posted by viewing the account transaction history of the selected account.

001. 1653449192316

Pay Bills Form

\$1.25 transaction fee will be automatically included.

Select Account *

Account#: 1653449192316 Balance: \$605.00

Select Customer *

Fido Express - 1653674841148

Amount *

\$ 60.50

Submit

Cancel

Account Transactions

Account#: 1653449192316

Filter

Ex. ium

Created	State	#	Description	Value
May 27, 2022	Posted	0001	Fido Express Payment.	-\$61.75
May 27, 2022	Posted	0002	Account transfer to chequing	-\$95.00
May 27, 2022	Posted	0003	Account transfer to chequing	-\$100.00
May 27, 2022	Posted	0004	Account transfer to chequing	-\$100.00
May 27, 2022	Posted	0005	ATM Deposit	\$900.00

Items per page: 10 1 - 5 of 5 < >

Close

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Filter

Ex. ium

Account Name	#	Account Number	Credit	Status	Action
Chequing	001.	1653449192316	\$543.25	Active	...
Savings	002.	1653449585809	\$100.00	Active	...
Mortgage	003.	1653449764907	\$900.00	Active	...
Line Of Credit	004.	1653449779140	\$0.00	Active	...

End of File
