

ITMD 510 Final Project

Bank_System

Author Name: Yanyan Sun

Illinois Institute of Technology

Bank_System

1、 Abstract

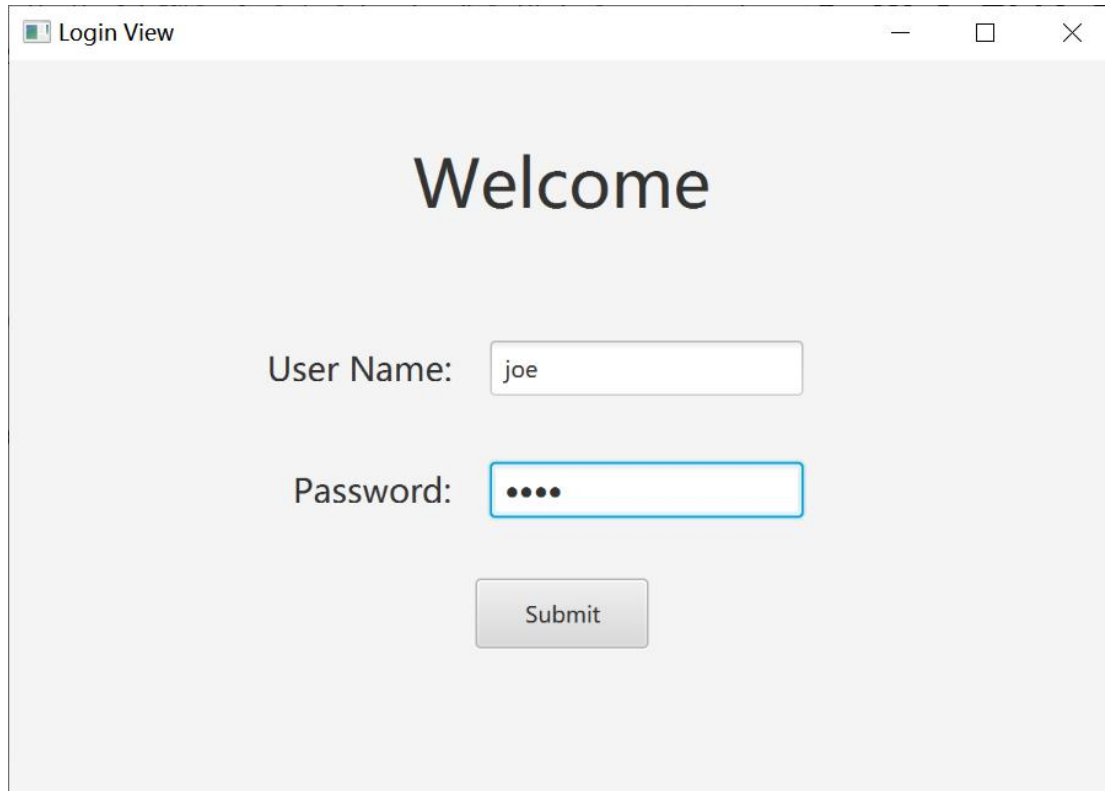
The application simply simulates the login function of the banking system. User roles include administrators and ordinary users, which can be logged in separately. After logging in, the interface presented is different. For the administrator interface, there are user management, including display, addition, modification, and deletion; there is banking institution management, including display, addition, modification, and deletion. The common user interface is a balance management, including balance change record display, withdrawal and recharge, etc.

2.Snapshots

2.1 Login

The user can log in by entering the user name and password.

2.1.1 Regular user login



Login View

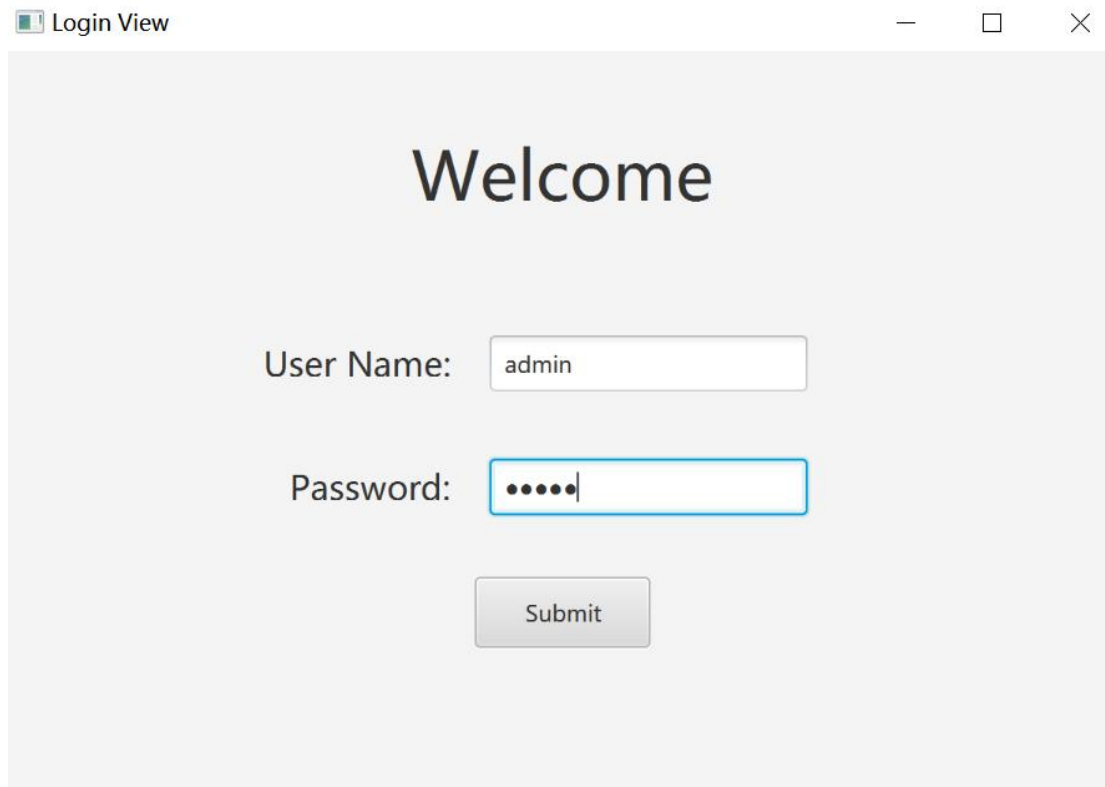
Welcome

User Name:

Password:

Submit

2.1.2 Admin login



Login View

Welcome

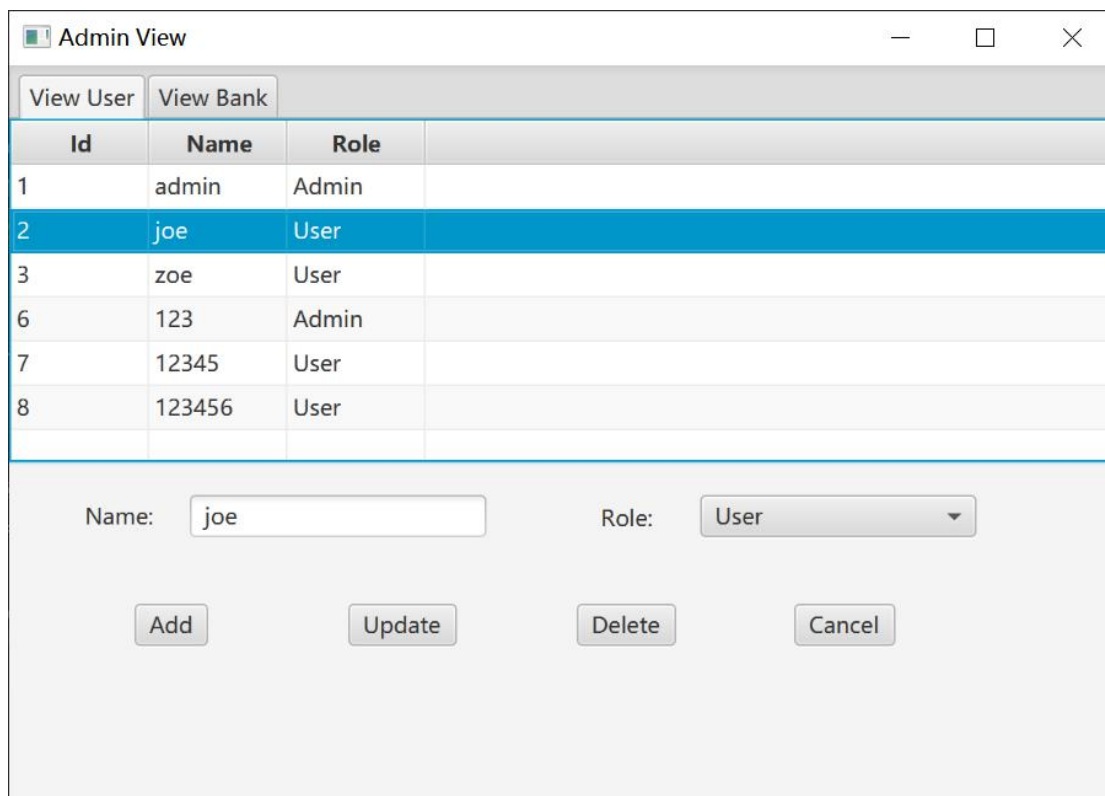
User Name:

Password:

Submit

2.2 Admin application interface

The administrator user management is divided into two parts, the upper part shows the user list, and the lower part shows the functions, such as adding, updating, deleting and clearing. The new function is to enter the name and role according to the interface instructions, and there will be a prompt if you do not lose. The update function needs to click on the list to select an item, and the same is true for deletion.



The image shows a screenshot of a web application window titled "Admin View". At the top, there are two tabs: "View User" (selected) and "View Bank". Below the tabs is a table with four columns: "Id", "Name", "Role", and an empty column. The table contains six rows of data. The second row, with Id 2, Name "joe", and Role "User", is highlighted in blue. Below the table, there are input fields for "Name" (containing "joe") and "Role" (a dropdown menu showing "User"). At the bottom, there are four buttons: "Add", "Update", "Delete", and "Cancel".

Id	Name	Role	
1	admin	Admin	
2	joe	User	
3	zoe	User	
6	123	Admin	
7	12345	User	
8	123456	User	

Name: Role:

Admin View

View User

View Bank

Id	Name	Role	
1	admin	Admin	
2	joe	User	
3	zoe	User	
6	123	Admin	
7	12345	User	
8	123456	User	

Name: 123456

Role: User

Add

Update

Delete

Cancel

Admin View

View User

View Bank

Id	Name	Role	
1	admin	Admin	
2	joe	User	
3	zoe	User	
7	12345	User	
8	test	User	
9	test2	Admin	
10	qwe	User	

Name:

Role:

Add

Update

Delete

Cancel

The Admin View window displays a table of users and a form for managing them. The table has columns for Id, Name, and Role. The form includes fields for Name and Role, and buttons for Add, Update, Delete, and Cancel.

Id	Name	Role
7	12345	User
8	test	User
9	test2	Admin
10	qwe	User
11	qwe	User
12	www	User
13	sss	Admin

Name: Role:

The Admin View window displays a table of users and a form for managing them. The table has columns for Id, Name, and Role. The form includes fields for Name and Role, and buttons for Add, Update, Delete, and Cancel. The 'Update' button is highlighted.

Id	Name	Role
1	admin	Admin
2	joe	User
3	zoe	User
6	123	Admin
7	12345	User

Name: Role:

Admin View

View User

View Bank

Id	Name	Address
3	12	123
4	1111	111
5	21	21
12	111	234

Name:

Address:

Add

Update

Delete

Cancel

The bank name is Empty!

Admin View

View User

View Bank

Id	Name	Address
3	12	123
4	1111	111
5	21	21
12	11134	234

Name:

11134

Address:

234

Add

Update

Delete

Cancel

The image shows a window titled "Admin View" with a standard Windows-style title bar (minimize, maximize, close buttons). Inside the window, there are two tabs: "View User" and "View Bank". The "View Bank" tab is active, displaying a table with the following data:

Id	Name	Address
3	12	123
4	1111	111
5	21	21

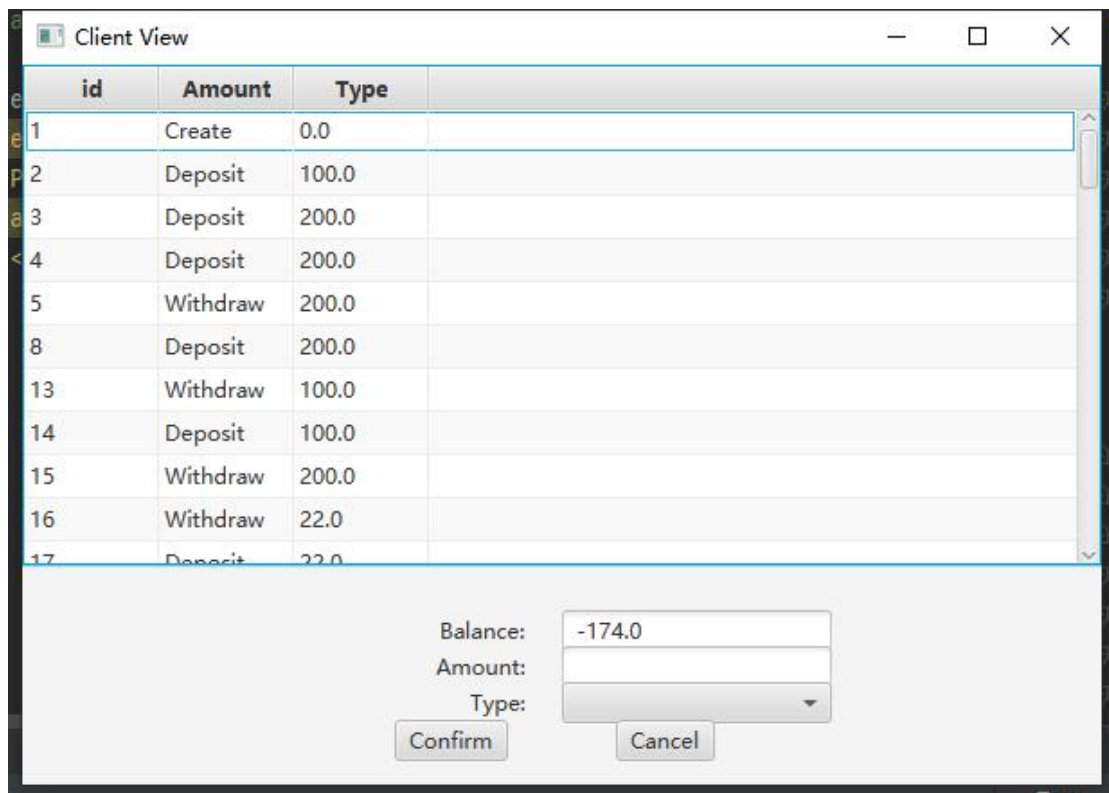
Below the table, there is a form with two input fields: "Name:" with the value "21" and "Address:" with the value "21". Below these fields are four buttons: "Add", "Update", "Delete", and "Cancel".

The administrator bank management is shown in the figure, the interface is divided into two parts, the upper part shows the bank list, and the lower part shows the functions, such as adding, updating, deleting and clearing. The new function is to enter the name and address according to the interface instructions, and there will be a prompt if you do not lose. The update function needs to click on the list to select an item, and the same is true for deletion.

2.3Regular user application interface

When a user adds an account, they will get an account at the same time. Ordinary users log in to the management interface as shown in the figure below. It is divided into two

parts. The above is the user balance operation record. Here, the user's opening, withdrawal and recharge operations will be recorded. The user's opening balance is 0, the recharge balance increases, and the withdrawal balance decreases.



The screenshot shows a window titled "Client View" with a table of operations and a form below it.

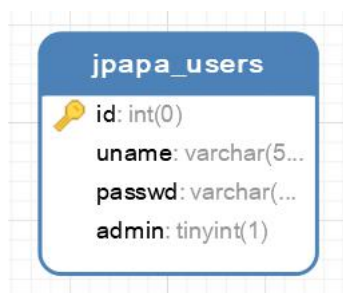
id	Amount	Type
1	Create	0.0
2	Deposit	100.0
3	Deposit	200.0
4	Deposit	200.0
5	Withdraw	200.0
8	Deposit	200.0
13	Withdraw	100.0
14	Deposit	100.0
15	Withdraw	200.0
16	Withdraw	22.0
17	Deposit	22.0

Below the table, there is a form with the following fields and buttons:

- Balance: -174.0
- Amount: (empty text box)
- Type: (dropdown menu)
- Confirm button
- Cancel button

2.4Table

User



The diagram shows the structure of the `jpapa_users` table:

- id:** int(0) (Primary Key)
- uname:** varchar(5...)
- passwd:** varchar(...)
- admin:** tinyint(1)


id	uname	passwd	admin
1	admin	e10adc3949ba59abb	1
2	joe	e10adc3949ba59abb	0
3	zoe	1234	0
7	12345	e10adc3949ba59abb	0
8	test	e10adc3949ba59abb	0
9	test2	e10adc3949ba59abb	1

Bank

jpapa_bank			
	id:	int(0)	
	name:	varchar(50)	
	address:	varchar(...)	

id	name	address
3	12	123
4	1111	111
5	21	21

Account

jpapa_accounts			
	id:	int(0)	
	type:	varchar(50)	
	balance:	double(...)	
	userid:	int(0)	
	amount:	double(2...)	

id	type	balance	userid	amount
1	Create	0	2	0
2	Deposit	100	2	100
3	Deposit	300	2	200
4	Deposit	500	2	200
5	Withdraw	300	2	200
6	Create	0	8	0
7	Create	0	9	0