

SJC Banking Application User's Guide

This program is a micro-banking application developed using Java. After the user downloads the application to their local desktop, they can run it and login using the given credentials, check their savings and checking, and either deposit or withdraw from either account. They will then logout, and log back in to see the interest accrued within their savings account after so many days have passed. Below are the system requirements, installation, and operation sections in order to help the user through using the application. We hope you enjoy!

System Requirements: Windows OS 8 or higher/ MAC OS 11 or higher; 64-bit capable processor with at least 2 GHz; 4 GB RAM, 1 GB available HDD storage; and Java Runtime Environment (JRE) 17 or higher (download JRE here: <https://adoptium.net/temurin/releases/>).

Installation: There is no special requirement to install this software. Simply drag and drop to the user's local desktop after ensuring the above system requirements are met, and open the application either by double-clicking or having it highlighted and pressing 'enter'.

Operation: After opening the application, please follow the below screenshots to successfully use the banking application.

SJC Credit Union

Welcome To SJC Credit Union

Welcome. Input your Login Credentials Please.

Username

Password

Login

(1) This is the initial login screen where you will enter your given login credentials

SJC Credit Union

Welcome To SJC Credit Union

Welcome. Input your Login Credentials Please.

(2) The user will enter the required credentials for username and password in order to login. To login, these credentials will be "**Username**" for Username and "**Password**" for Password.

Username
username

Password
.....

Login

(3) "**Username**" is NOT case-sensitive, and can be entered in any combination of uppercase or lowercase characters as 'username', 'Username', etc.

(4) "**Password**" IS case-sensitive, and must be entered exactly as this is written, with the first letter capitalized and the rest lowercase.

(5) The user will click the 'Login' button once credentials have been entered.

SJC Credit Union

Welcome To SJC Credit Union

Invalid login credentials entered. Please try again.

Username
username

Password
.....

Login

(6) In this example, the '**Username**' field is acceptable, but the '**Password**' entered is incorrect. Although not visible, the text entered within the password field was 'password' with the first letter lowercase, instead of '**Password**' with the first letter capitalized.

(7) If invalid login credentials and the user clicks on the 'Login' button, an error message will be displayed above!

(8) Once successfully logged in, the (a) 'Checking Account' banking screen will be displayed. On this screen, you will see a (b) current balance, a (c) drop down box with 'Deposit' and 'Withdraw' options, a (d) box to enter a transaction amount, the option to (e) go to Savings, the (f) current date with the number of days calculated since last login***, and the option to (g) Logout.

SIC Credit Union

Checking Account

Please choose a transaction type

Deposit
Deposit
Withdraw

Balance: \$575.47

Enter your transaction amount

Submit

Go To Savings

Today is Sat Jul 09 12:14:33 EDT 2022
Your last login was 71 days ago

Logout

Of note, in this specific application, the days since last login is generated at random.

SIC Credit Union

Checking Account

Please choose a transaction type

Deposit
Deposit
Withdraw

Balance: \$575.47

Enter your transaction amount

Submit

Go To Savings

Today is Sat Jul 09 12:14:33 EDT 2022
Your last login was 71 days ago

Logout

(9) In order to make a deposit, first make sure that (a) 'Deposit' is selected within the drop down box, and then (b) enter the amount you wish to deposit within the text box under "Enter your transaction amount". After entering your amount, (c) click the 'Submit' button.

SJC Credit Union

Checking Account

Please choose a transaction type

Deposit

Balance: \$775.47

\$200.00 was added to Checking!

200

Submit

(10) In this example, '200' was entered and added to the balance. After the user clicked 'Submit', they were notified with the message "\$200.00 was added to Checking!", and the overall balance increased by the same amount.

Go To Savings

Today is Sat Jul 09 12:14:33 EDT 2022
Your last login was 71 days ago

Logout

SJC Credit Union

Checking Account

Please choose a transaction type

Withdraw

Balance: \$575.47

\$200.00 was withdrawn from Checking!

200

Submit

(11) In order to withdraw, select (a) 'Withdraw' from the drop down box, and perform the same steps as before with deposit. In this example, '200' was entered and subtracted from the balance. After the user clicked 'Submit', they were notified with the message "\$200.00 was withdrawn from Checking!", and the overall balance decreased by the same amount.

Go To Savings

Today is Sat Jul 09 12:14:33 EDT 2022
Your last login was 71 days ago

Logout

SJC Credit Union

Checking Account

Please choose a transaction type

Withdraw

Balance: \$575.47

You do not have enough funds in account to withdraw the amount entered.

3000

Submit

Go To Savings

Today is Sat Jul 09 12:14:33
Your last login was 71 days

(12) If the user attempts to withdraw from an account more funds than are shown available, then a message will display stating "You do not have enough funds in account to withdraw the amount entered". In this example, the user attempted to withdraw \$3,000 but only has a balance of \$575.47.

SJC Credit Union

Savings Account

Please choose a transaction type

Deposit

Balance: \$6328.75

Interest accrued since last login: \$94.16

Enter your transaction amount

\$

Submit

Go To Checking

Today is Sat Jul 09 12:14:33 EDT 2022
Your last login was 71 days ago

Logout

(13) If you clicked on the 'Go To Savings' button, you will be taken to your Savings Account screen. On this screen, all of the same options that were available in Checking are also here.

(14) There is an additional "Interest accrued since last login", which is generated based on the days calculated since last login.

SJC Credit Union

Savings Account

Please choose a transaction type

Deposit

Balance: \$6328.75
Interest accrued since last login: \$94.16

Enter your transaction amount

\$

Submit

(15) If the user clicks on the logout button...

Go To Checking

Today is Sat Jul 09 12:14:33 EDT 2022
Your last login was 71 days ago

Logout

SJC Credit Union

Welcome To SJC Credit Union

Welcome. Input your Login Credentials Please.

Username

Password

Login

(16) ...they are taken back to the Login Screen. Here, they can re-enter their valid credentials to log back into the banking application.

Savings Account

Please choose a transaction type

Deposit ▼

Balance: \$6719.85

Interest accrued since last login: \$94.16

Enter your transaction amount

\$

Submit

(17) Once that is done, the number of days since last login will be updated with a randomly generated number. Once calculated, the interest accrued will be added to the overall balance!

Go To Checking

Today is Sat Jul 09 12:14:33 EDT 2022

Your last login was 51 days ago

Logout