Bill Splitting System

User Manual

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1. Overview

This software is designed to help people track their spending as well as split common spendings among friends. This application would record spending and share them with friends, check daily/weekly/monthly financial spending summary, and visualize those spending summaries accordingly.

2. System Requirement

- Available Operating Systems: Windows 10, Mac OS.
- The system should have installed Java JDK 14.
- Interaction with this software requires a keyboard, mouse, and a monitor
- The use of this software requires a stable Internet connection.

3. How to use the application

To use the application, you can either:

- 1. In the *Source Code* folder, find the LoginGUI.java under the ./BillSplittingSystem/gui/src/LoginGUI.java and run the main function of LoginGUI.java.
- 2. Or, in the *Executable* folder, double click on the Jar file. If it cannot open directly by double click, try to choose the 'open with Jar Launcher (default)'.

Login Screen



a. Login

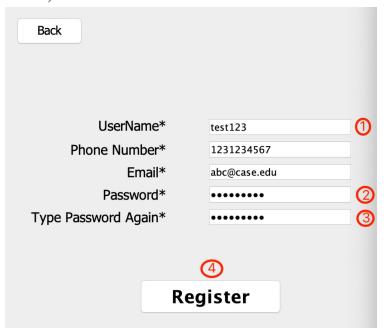
- 1. Enter the username*
- 2. Enter the password**
- 3. Click the *Login* button.
- * Click the Sign Up button if you do not have an account
- ** Click the Forgot Password button if you can't remember your password



b. Sign Up

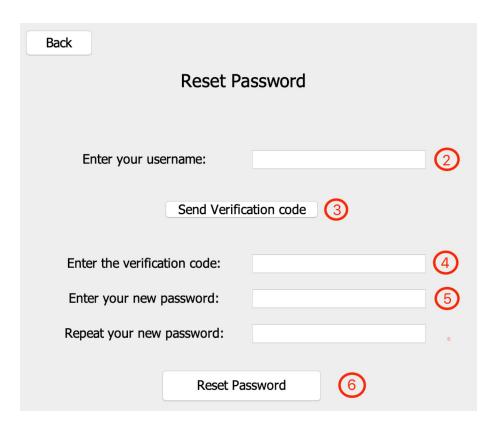
1. Click the *signup* button in the left corner of the login screen.

- 2. Enter the username, phone number, email, and password. The password should be at least 8 characters or numbers. The phone number should be 10 numbers.
- 3. Make sure that the email address entered is able to receive emails as resetting the password would require the same email. (If the email address does not exist and the user requests the verification code too frequently, the mail server may refuse any communications from our server.)
- 4. Enter the password again to ensure the user did not make a mistake while typing the password.
- 5. Click the *Register* button (registration failed may be due to duplicate username, phone number, and email address in the database. If it shows 'registration fail', please register it with alternative values).



c. Reset Password

- 1. Click the *Forget Password* button in the right corner of the login screen.
- 2. Enter the username to send the verification code
- 3. Click on the Send Verification code button
- 4. Once received the code in the email, enter the verification code
- 5. Enter the new password two times
- 6. Click on the *Reset password* button

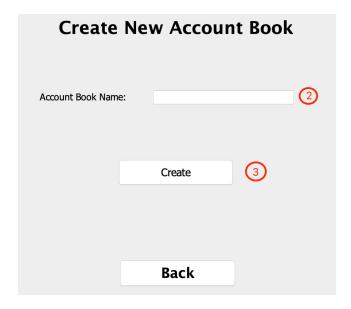


User Home



a. Create books

- 1. Click the Create new Book Button to create accounting books to store the financial activities
- 2. Enter Account book name
- 3. Click on the 'create' button to create



b. Delete books

- 1. Choose the accounting books you want to delete in the bar
- 2. Click the Delete the Book button to delete the book.



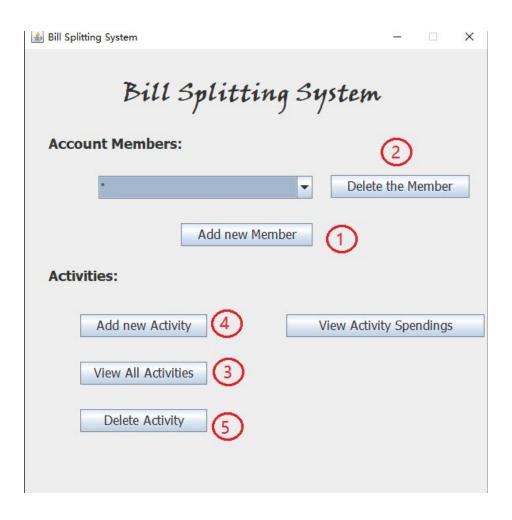
c. View books

- 1. Choose the accounting books you want to check in the bar
- 2. Click the View the Books button and you will be navigated to the Accounting Book Screen



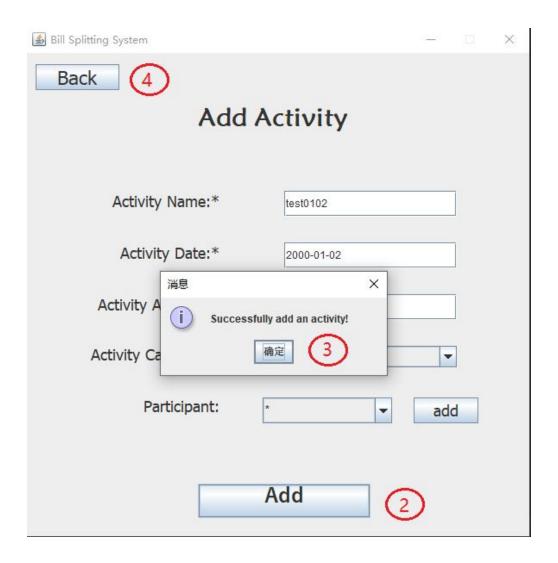
Accounting Book Screen

- 1. Add account members by Clicking the Add new Member Button. Enter the name of the user (his/her username) you want to add and then click the Add Button.
- 2. Delete account members by Choosing the members in the bar and clicking the Delete the Member Button.
- 3. View all financial activities by clicking the View all Activities Button and you will be navigated to the Activities History View Screen.
- 4. Add new Activities by clicking the Add new Activity Button and users will be navigated to the Add Activities Screen.
- 5. Delete Activities by clicking the Delete Activity Button and users will be navigated to the Delete Activities Screen.



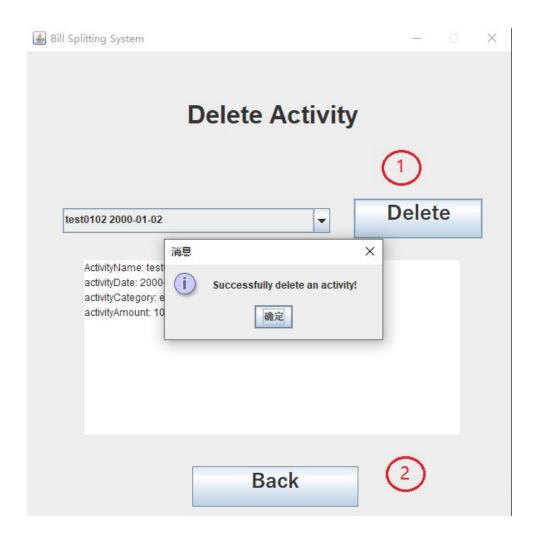
a. Add Activity Screen

- 1. Enter the name, date, cost, category, and participants. The date should in format '2000-01-01' and the name should be non-empty.
- 2. Click Add button after finishing up
- 3. Click Back to go back to the accounting book screen after getting the prompt of adding success.



b. Delete Activity Screen

- 1. Choose the activity you want to delete in the bar and click the delete button.
- 2. Click Back to go back to the accounting book screen after getting the prompt of deleting success.



Spendings

- 1. To check spendings in different time periods, click on the 'View Activity Spending' button.
- 2. To check yearly spendings, leave 'month' and 'date' empty, and a visual graph will be displayed when the 'Show' button is clicked.
- 3. To check monthly spendings, choose a 'year' and 'month' and leave 'date' empty.
- 4. Lastly, to check daily spendings, all three fields must be filled.
- 5. By clicking the 'back' button, the user will be directed back to the account book page.

View Activity Spendings Year: Month: Date: 2020 * * * Show ② * Choose month, year, and date to show daily activity spendings * Choose month and year to show monthly activity spendings * Choose only year to show yearly activity spendings Back



