

User manual

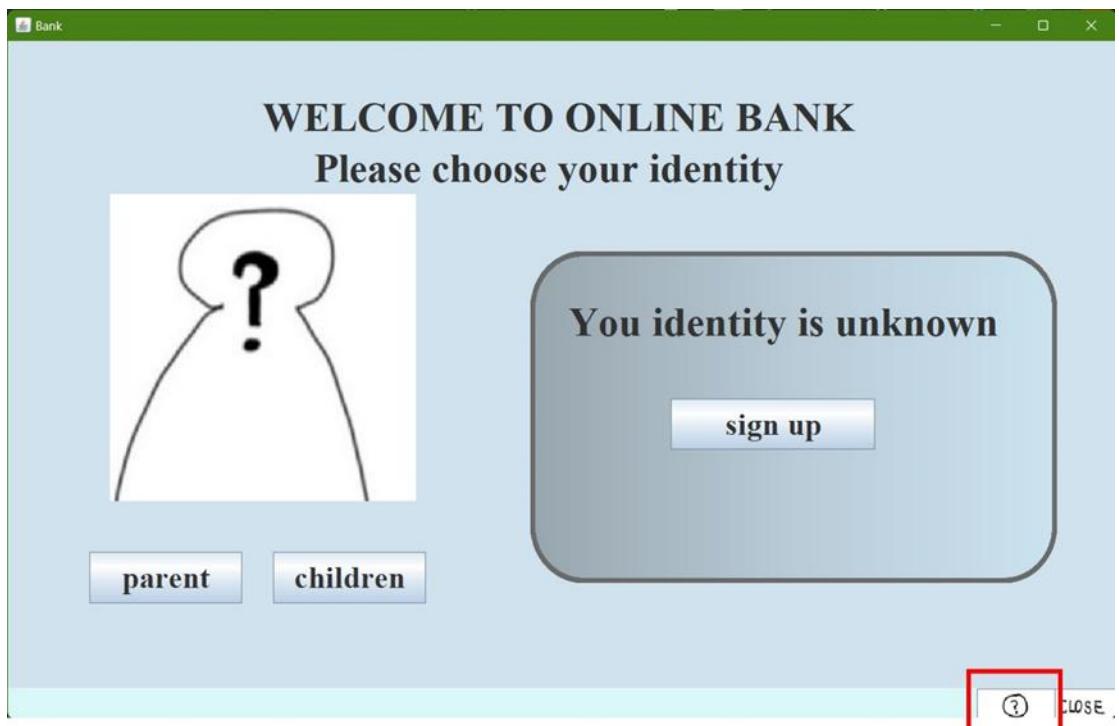
Virtual-bank Group41

Welcome to our virtual bank software. Our virtual bank is aimed at children aged 6-12 and their parents. The app is designed to introduce them to basic financial concepts such as earning, saving, and spending money responsibly. For their parents, we provide tools to easily manage these activities, monitor their child's financial decisions and see their progress. This is an instruction to introduce the main functions and show you how to use this software.

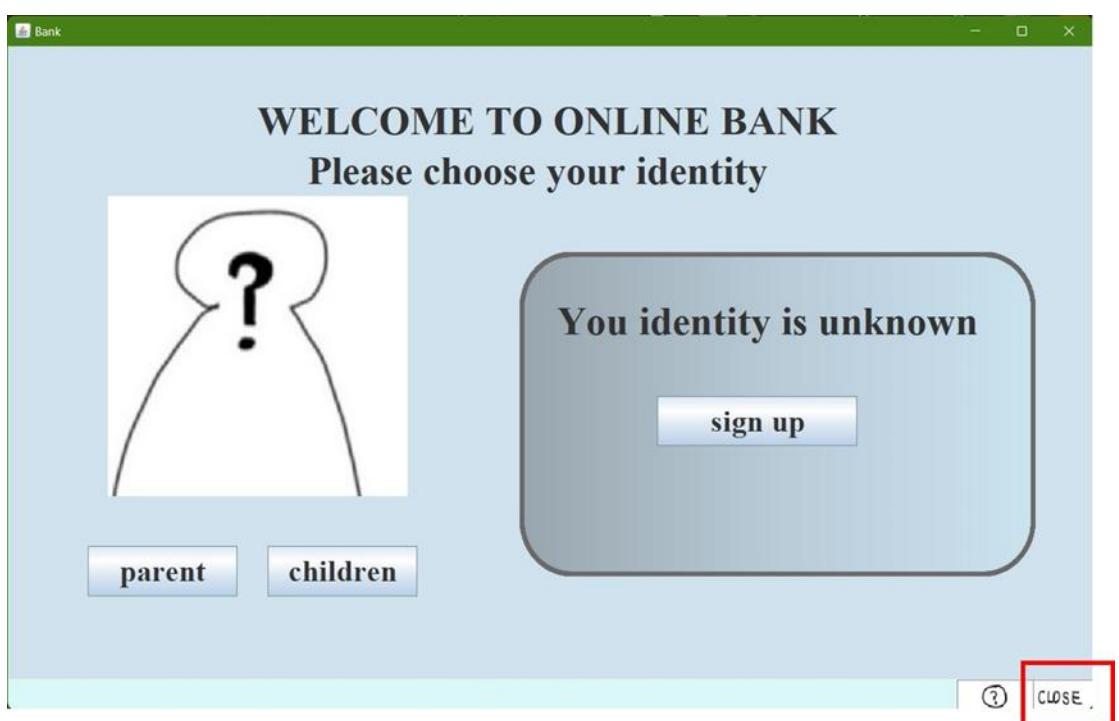
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1.Log in



If you want to have any questions, please click here to see the user manual to get some help.



If you want to exit program, please click the close button to get out.



If you want to create a new account, please click the **sign up** button.



If you already have an account, please choose your identity.

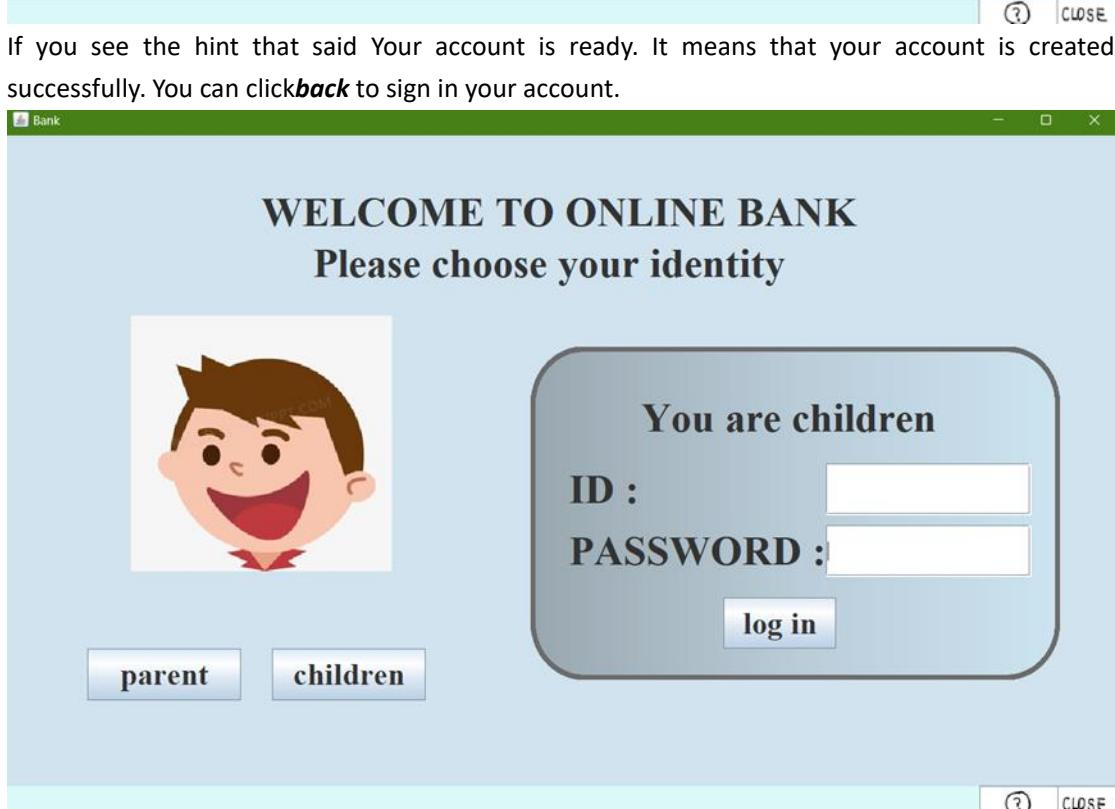


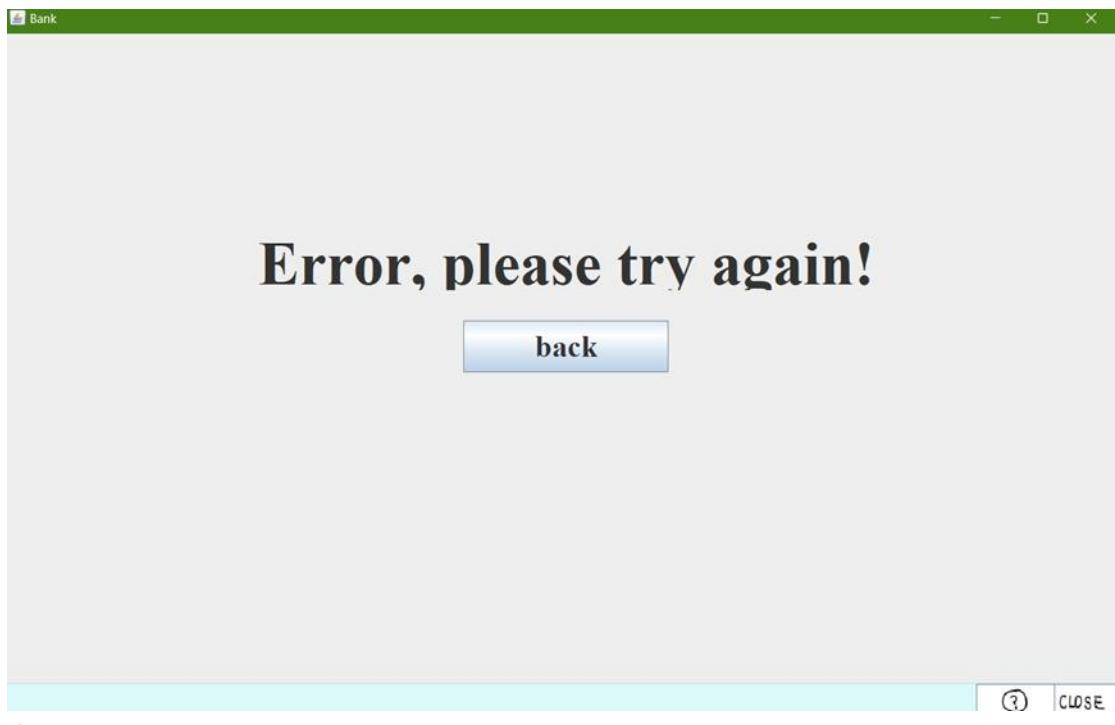
In the **sign up**page, you need to be acknowledged that your id need to be all number and your password need to be combined with number and word.

Fill in all of the three boxes, the click **sign**to sign up a account. If you want to get back to the previous page, please click**back**.



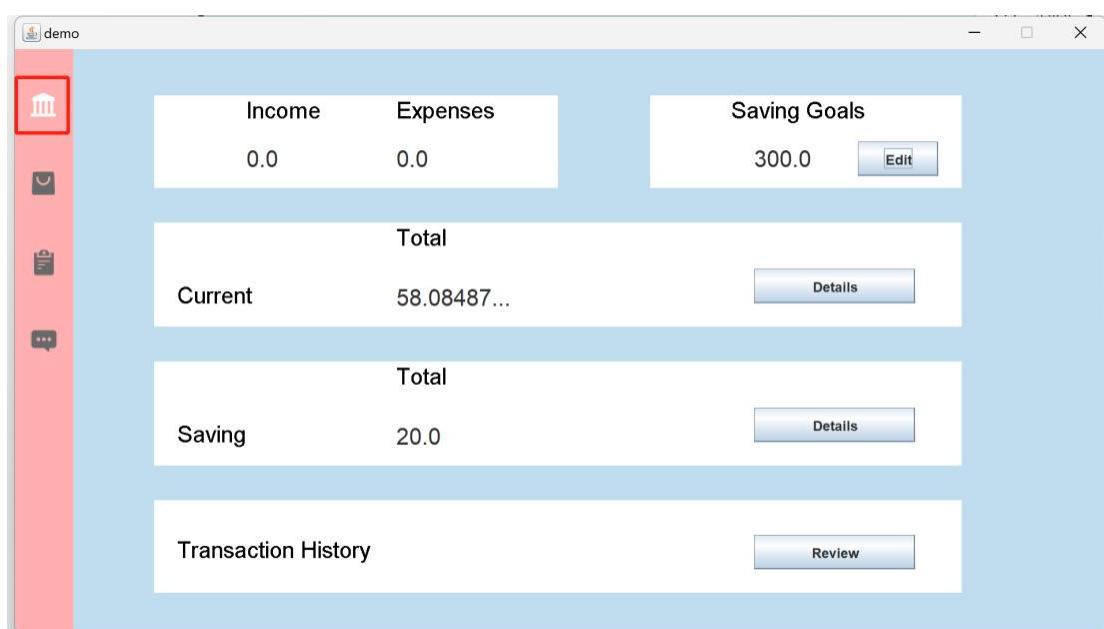
If you see the hint that said **Your id or passwords is empty!** You need to fill in all the text boxes to sign account.





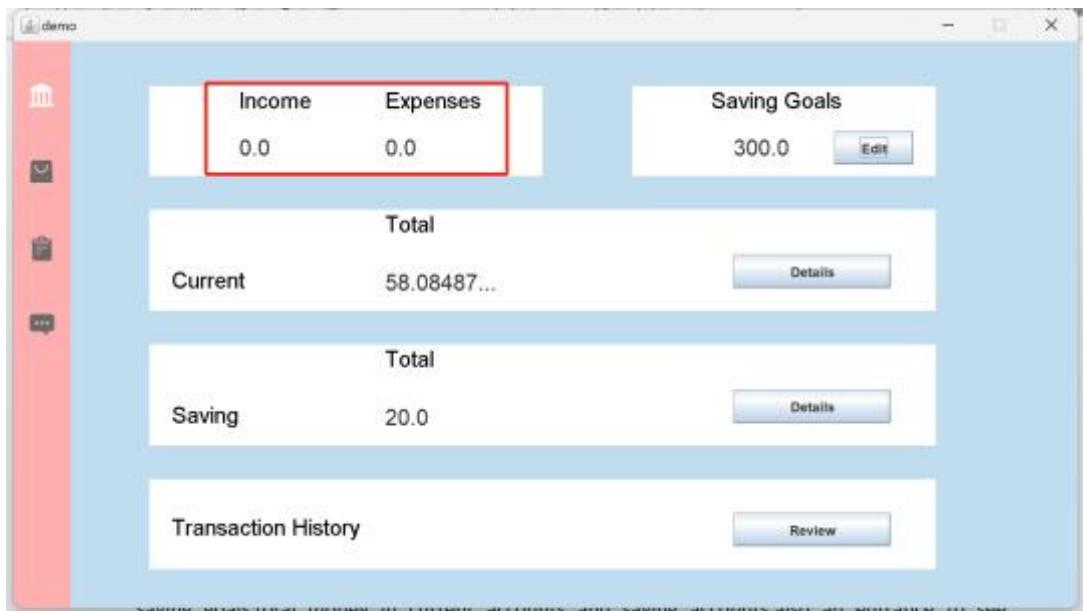
2.For kids

2.1Bank

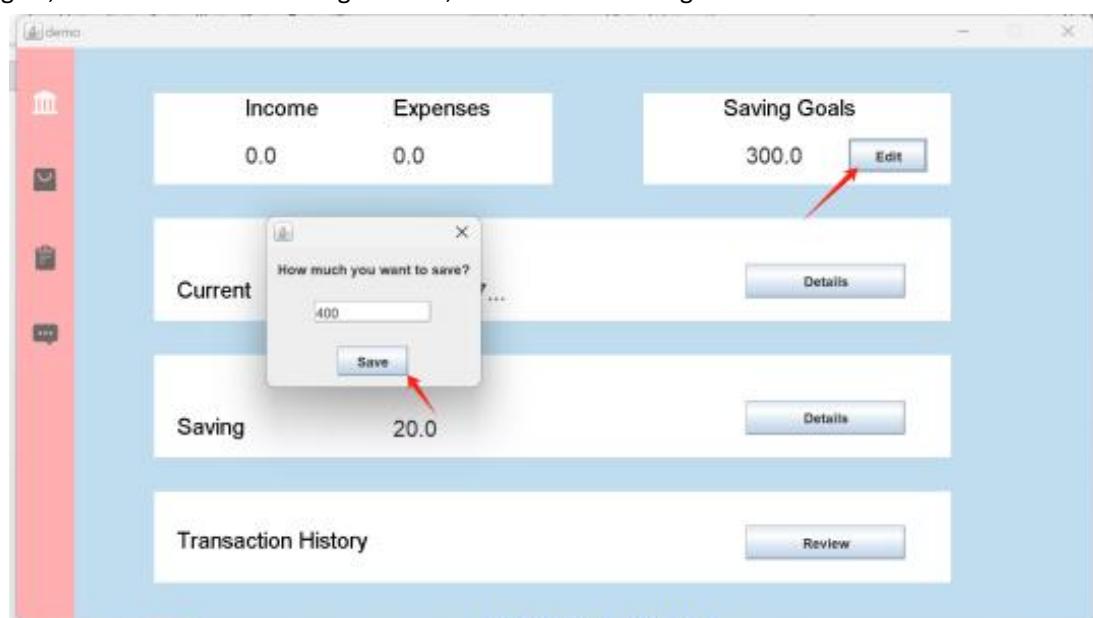


In the bank page,you can see some related information like today's income and expenses,the saving goals,total money in current accounts and saving accounts,also an entrance to see transaction history.

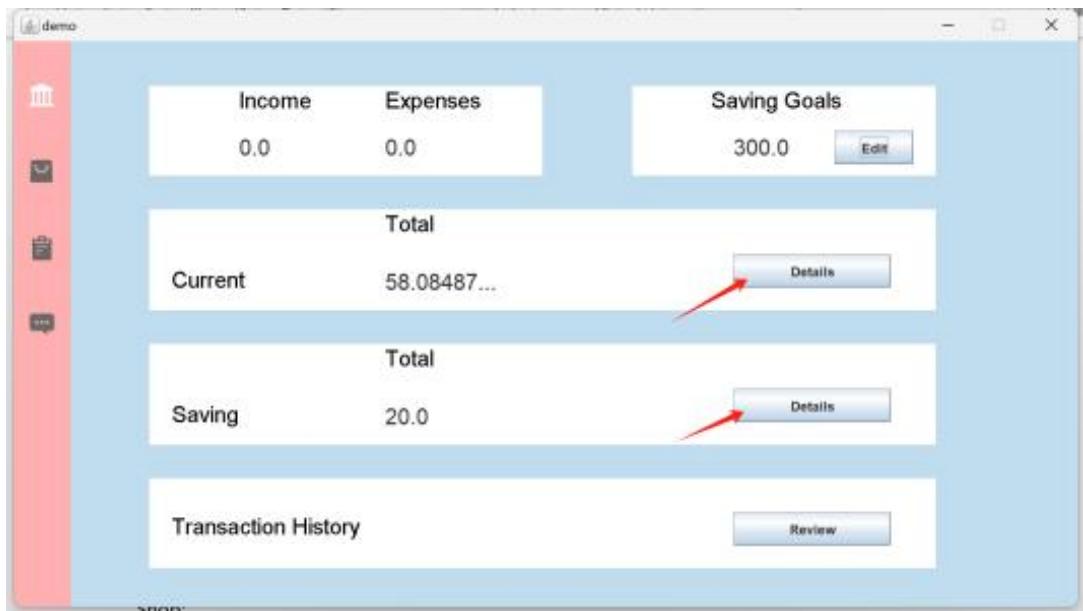
If you finished some tasks and earn the money or you buy something in the shop,you can directly see the number in this page.



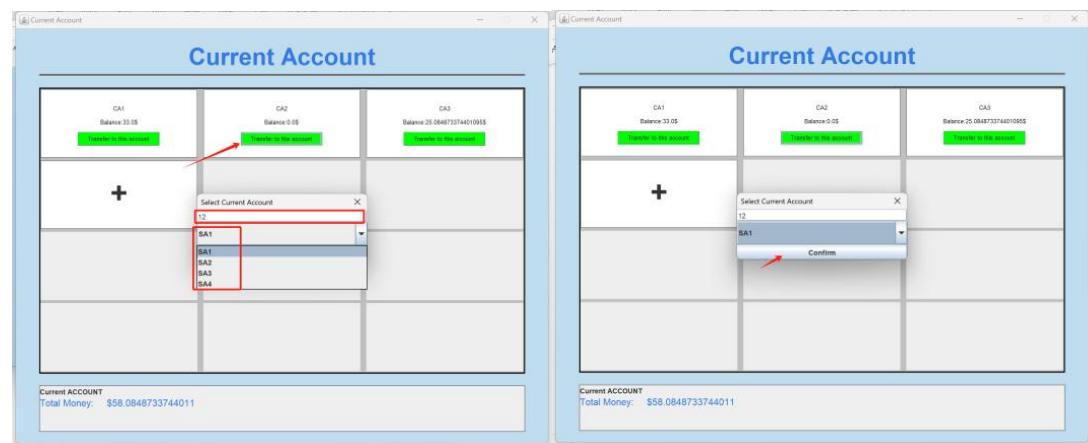
If you want to change the saving goal,you can click the “Edit” button to change your saving goal,then there will be a dialog window,click “save” to change.



If you want to see the details of your current accounts or saving accounts,you can click “Details” button and you will see the saving current account page and saving account page.



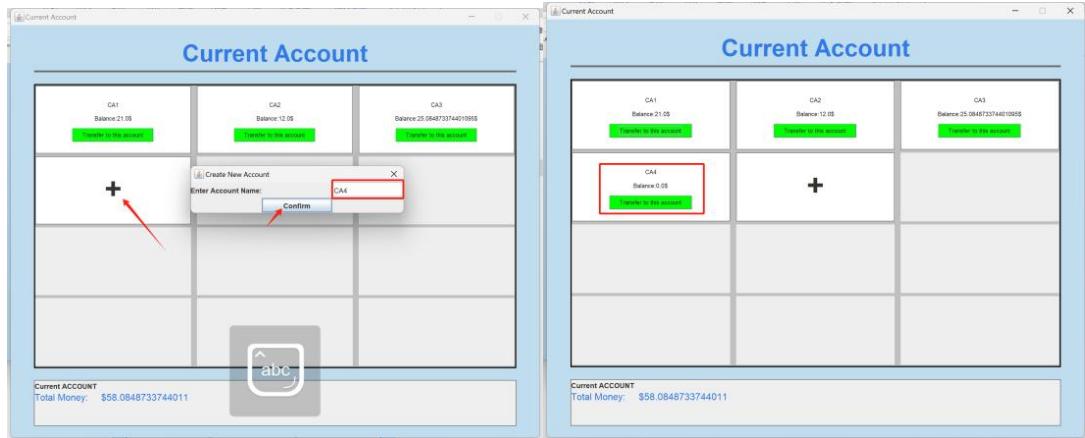
In current account page,you can transfer money between current accounts freely,input the amount you want to transfer and click “Confirm” button then you can see the exchange!



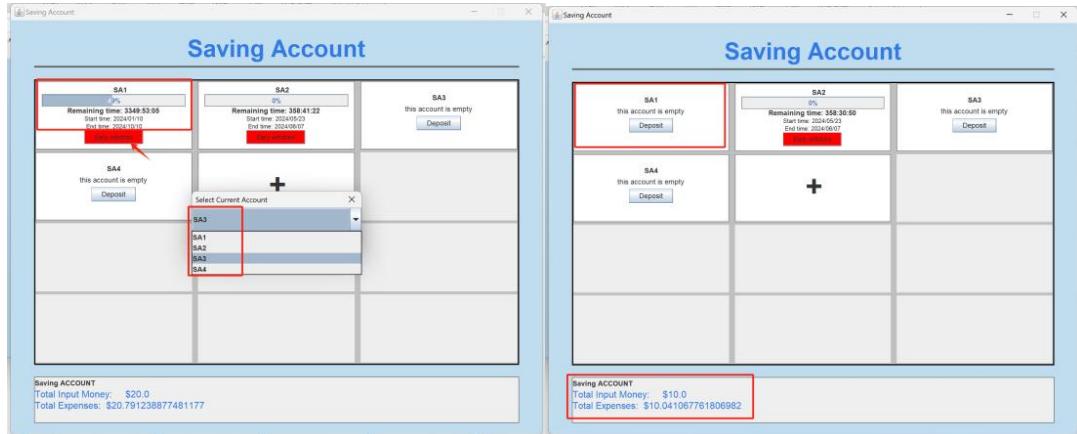
And everytime you have invalid input,you will be prompted.You can also see the total money in your current accounts.



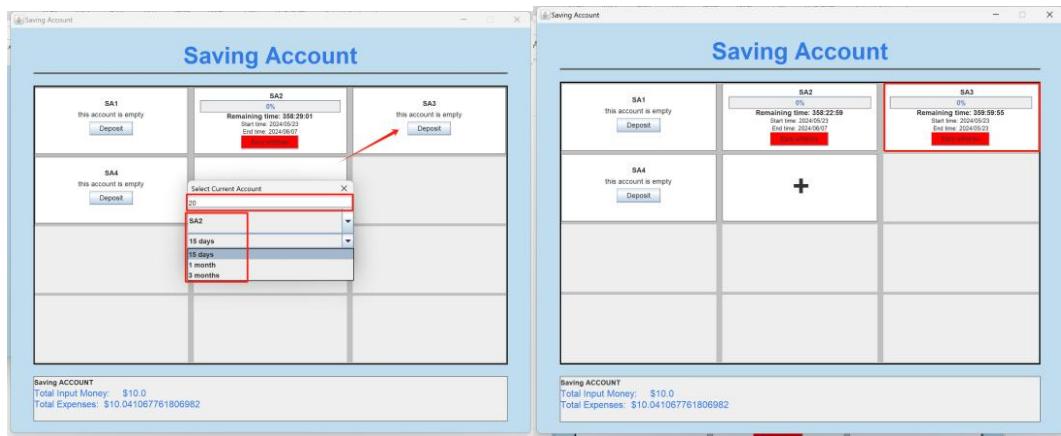
If you want to create another current account,all you need to do is click on the plus sign and enter the account name and click “Confirm” button.Then you can see that you have another current account.



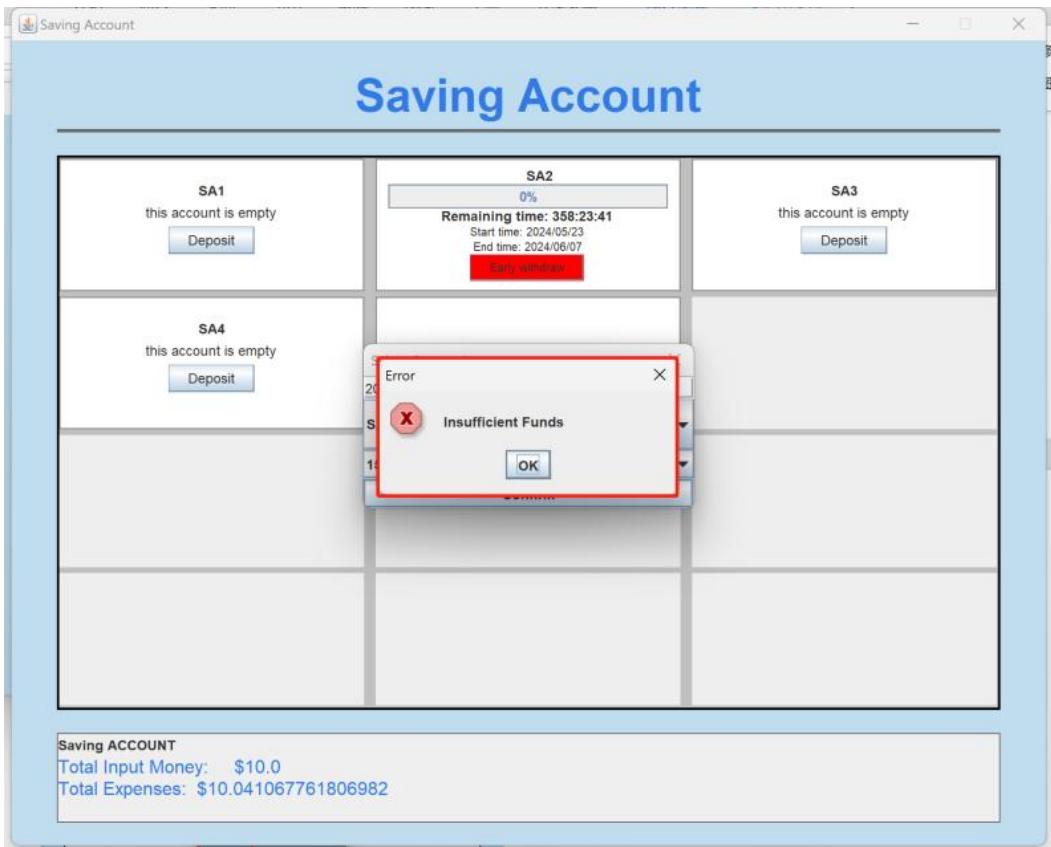
In the saving account page,you can see the savings time, expiry time, progress bar and countdown for different accounts.You can take out the money in your account early by clicking the “Early withdraw” button but with no profit.Choose the current account that you want to save into.If you click the “Confirm” button just like the current account page,this account will be empty and you can also see the total money in your saving accounts change.



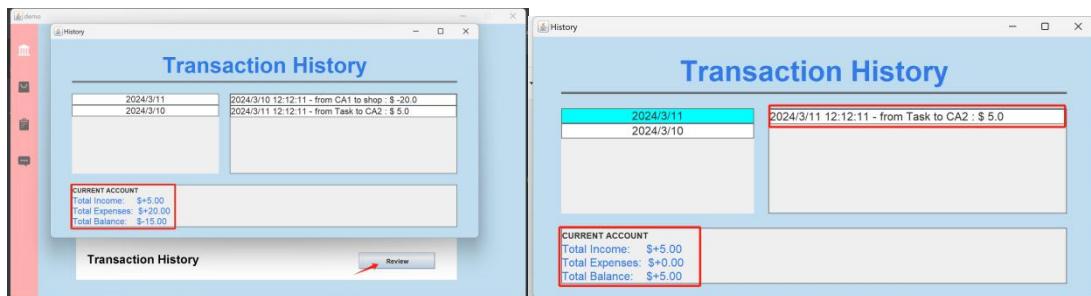
If you want to deposit money,you just need to click “Deposit” button,you can input the amount that you want save,which current account that you want to transfer from and the expire time you want to save.If you click the “Confirm” button,you can see the account start to deposit money.



You will be prompted if the cash account you have selected does not have a sufficient balance.



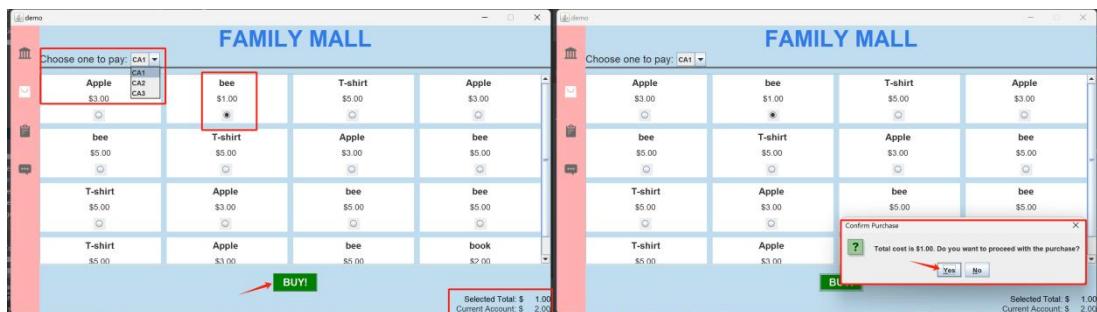
If you want to review your transaction history, you can click the "Review" button in your bank page then you can see your transaction history of different dates. When you choose one day, you can see the details of a specific date, including the time, source and destination of money and the amount.



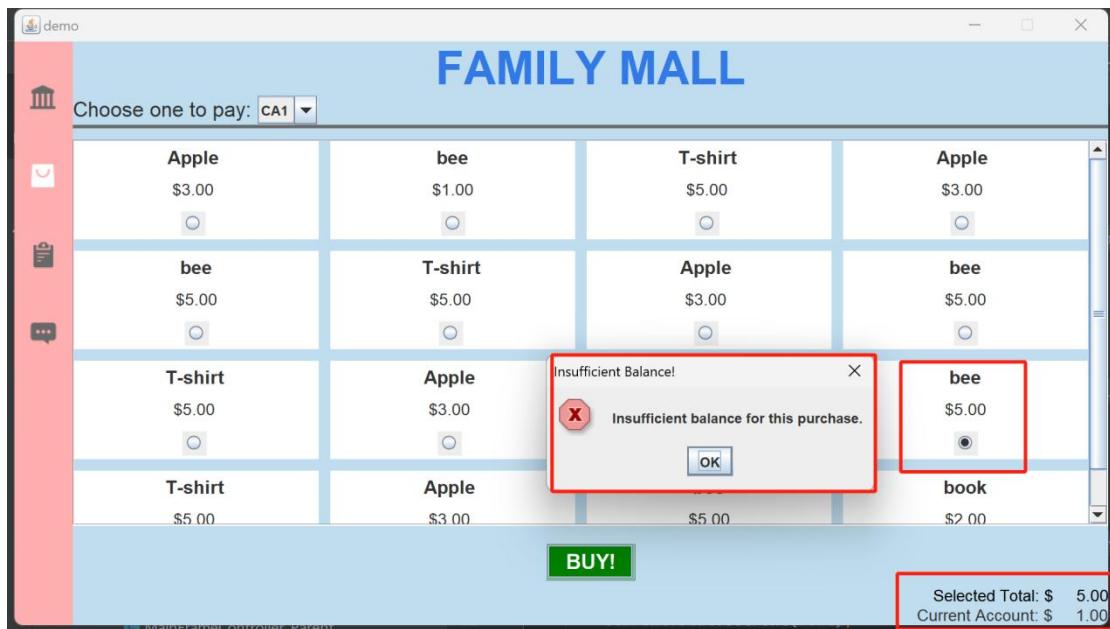
2.2 Shop



In this shop page,you can see the product and their prices.Before you buying,you can choose one of your current accounts on the upper left and see the balance of this account on the lower right corner.



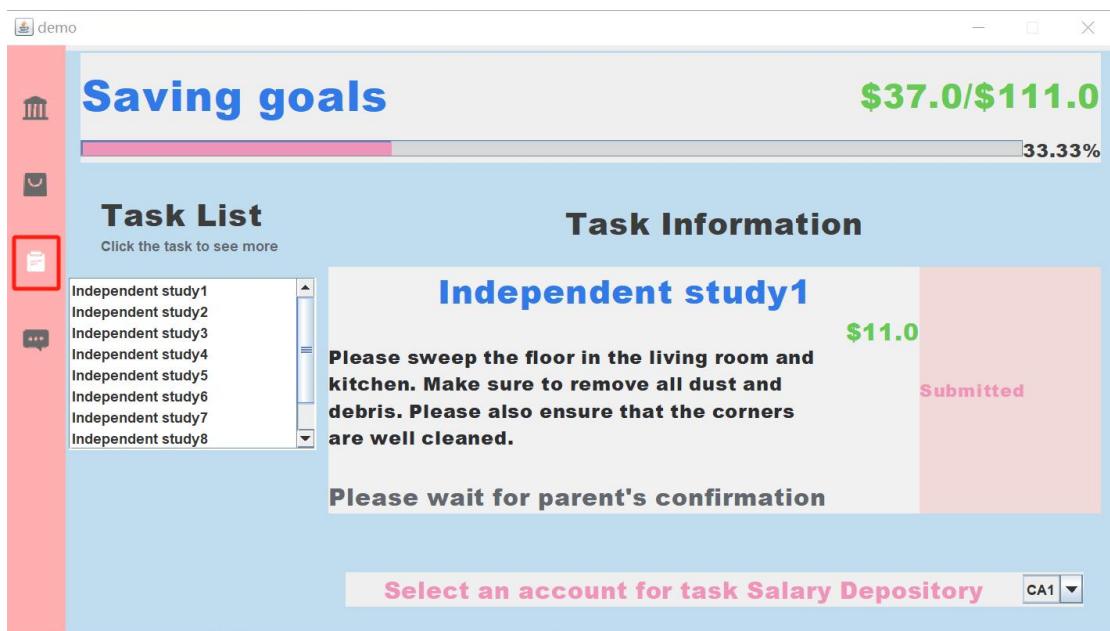
If you want to buy something,you just need to click the radio box below the price,click "Buy!" button and you can buy the product and see the balance in your account changed.

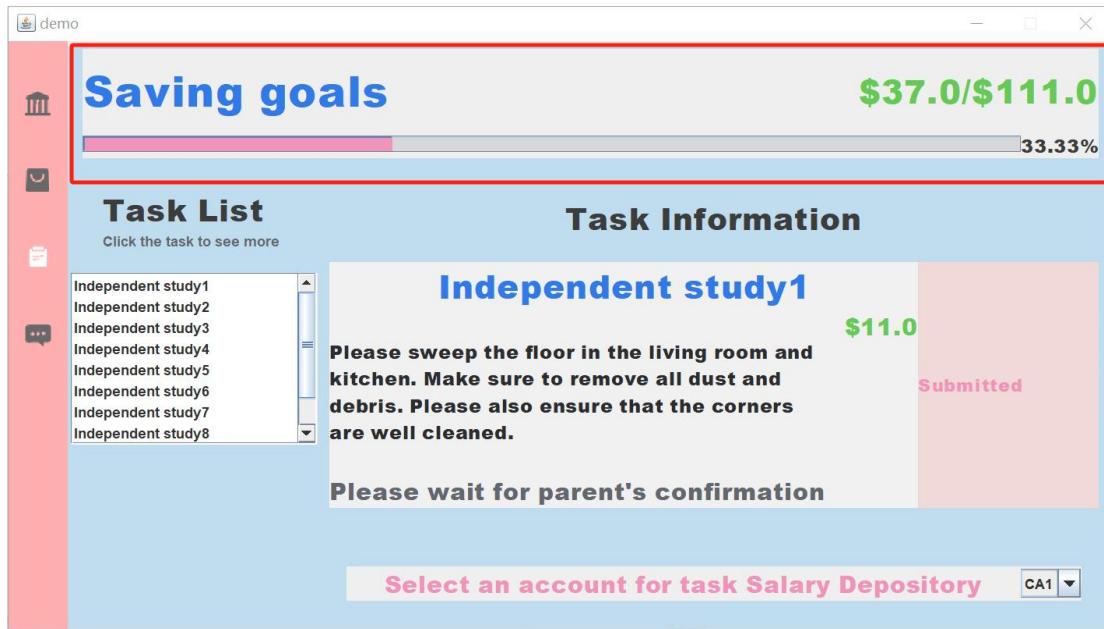


Also the system prompts you when you don't have enough money to buy certain things.

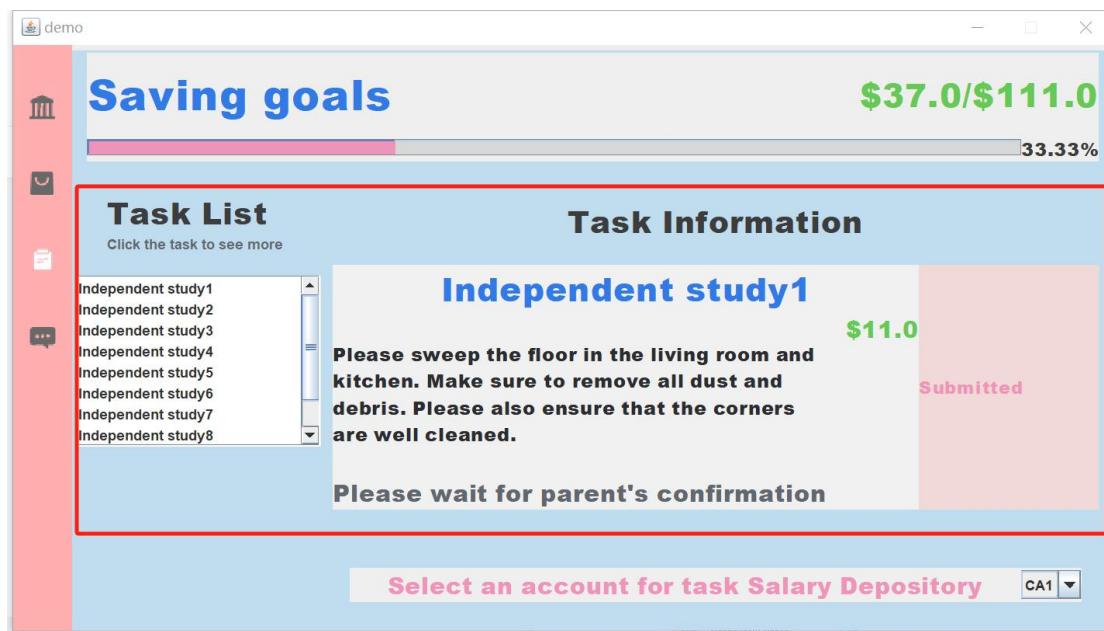
2.3 Task

Click on the third icon in the navigation bar to jump to the task page.



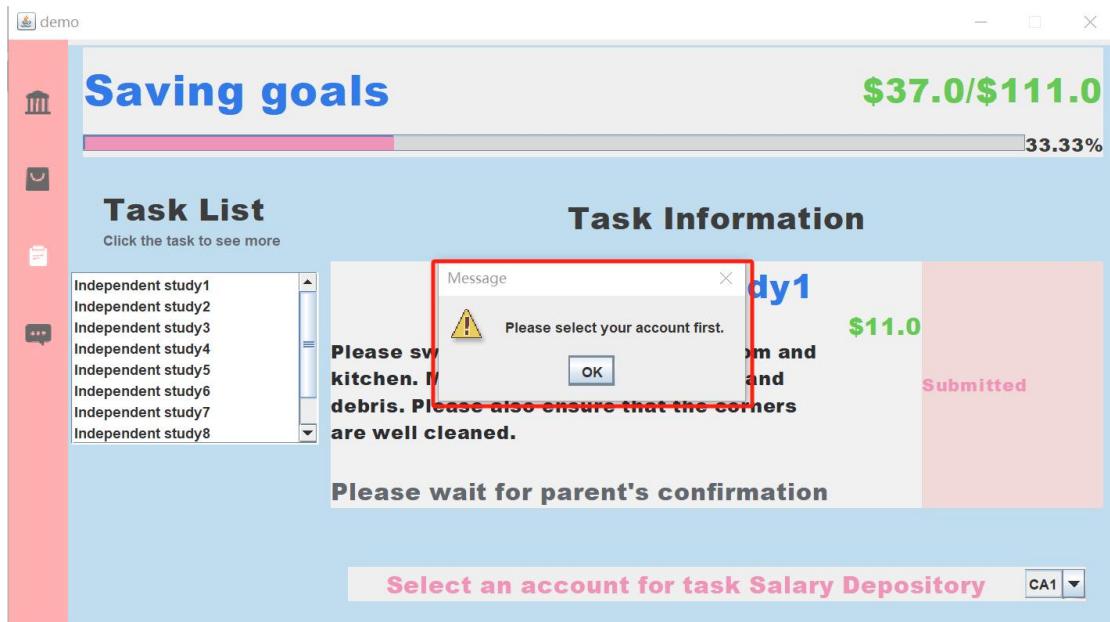


You can see the details of your saving goal on this page, including how much money you already have and how far along you are with your goal, and we provide a progress bar to see the details of your progress!

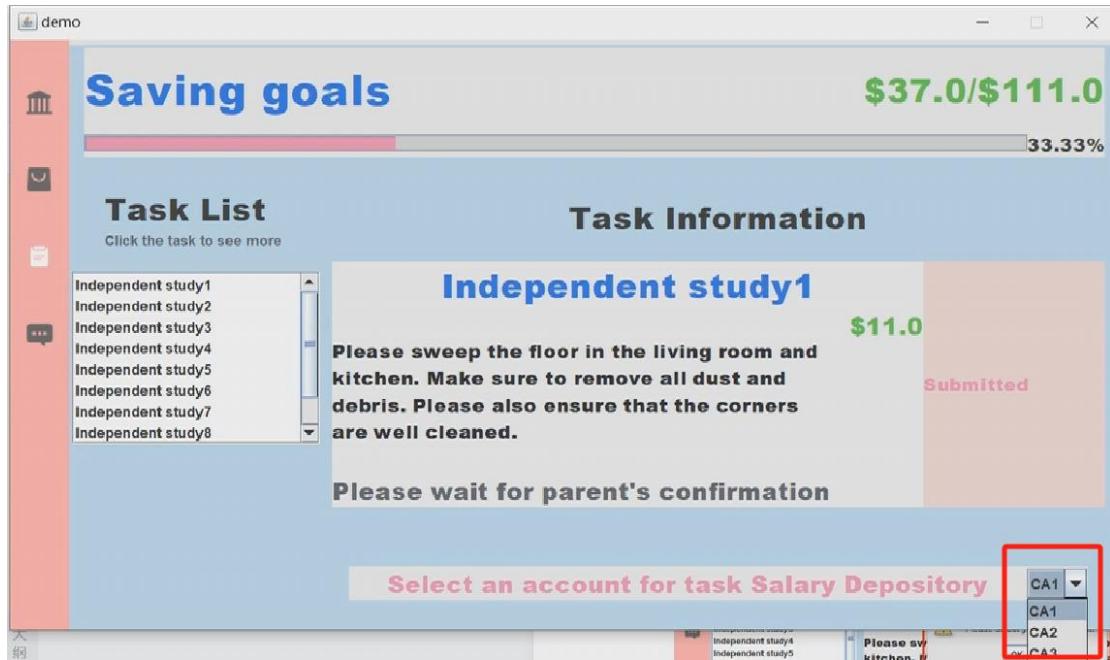


You can view all tasks in the task list, you can see more information by click on the task in task list, the task information part will change into the information of the task you click.

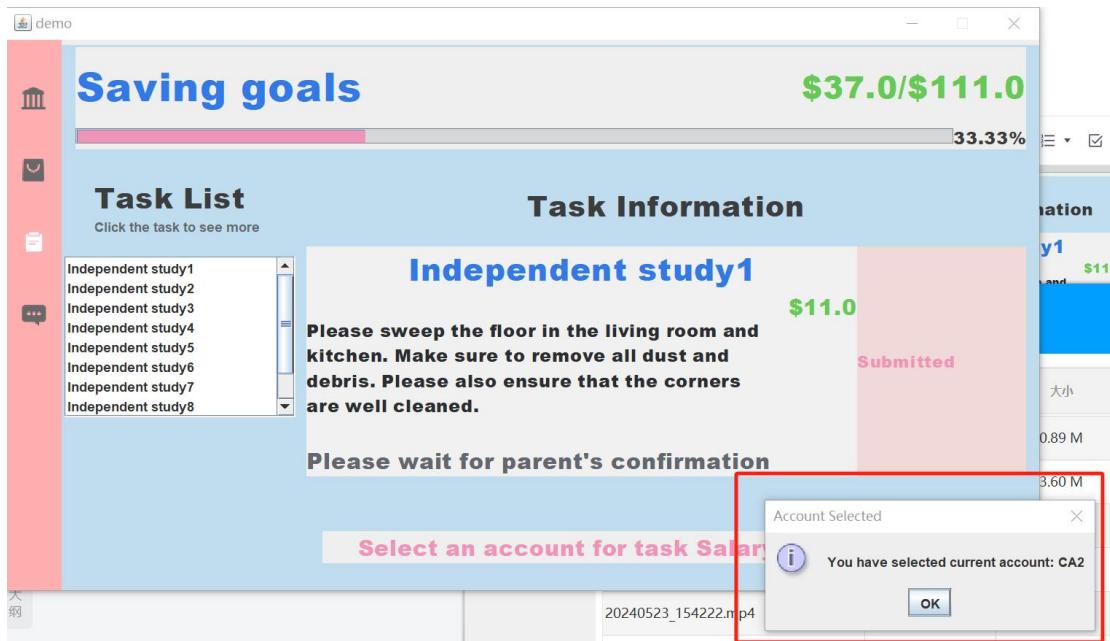
You can submit, pick or cancel the task by click on the pink part in the task information part.



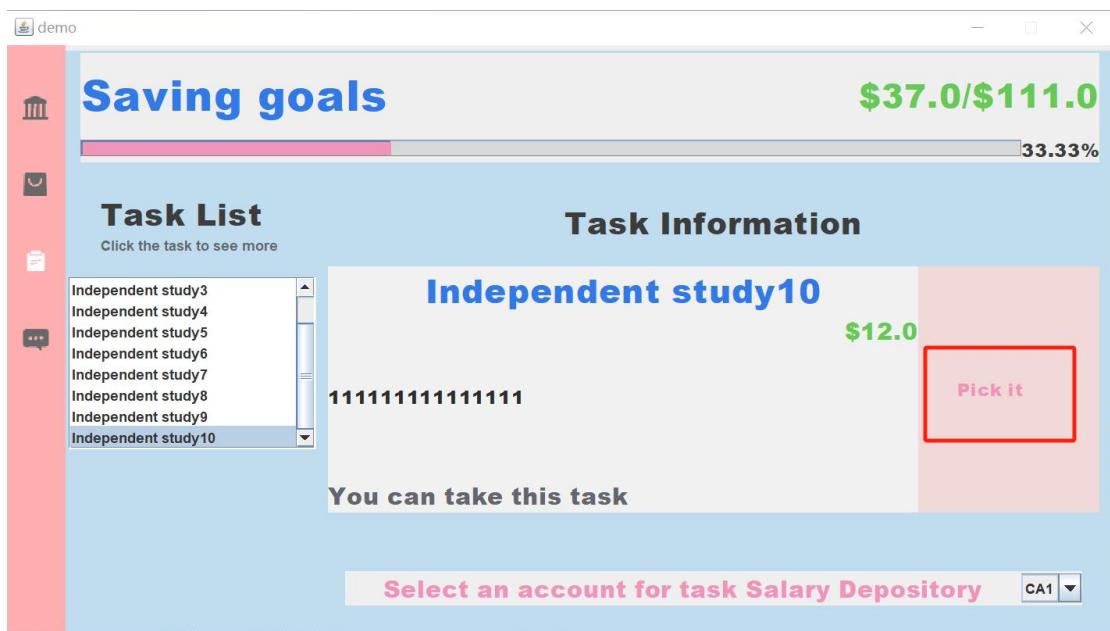
You have to choose your account for salary first before any task operation, if you didn't choose it first, warning like this will pop out. Once selected, this warning will not pop up, including after logging back in.



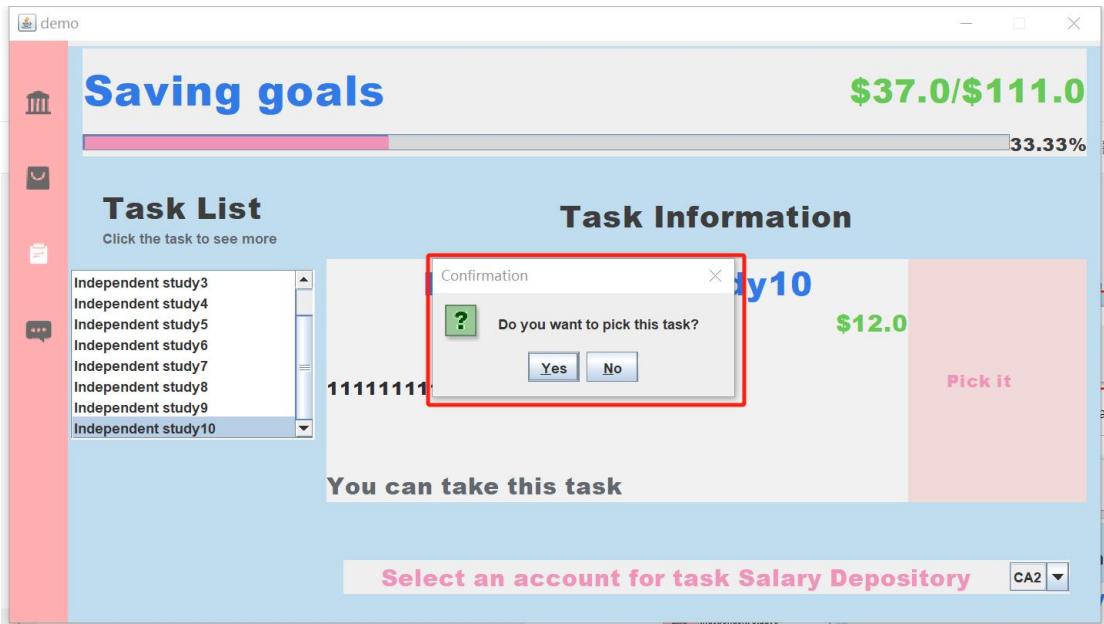
You can change the account any time by click the selector on the "select an account for task salary despository".



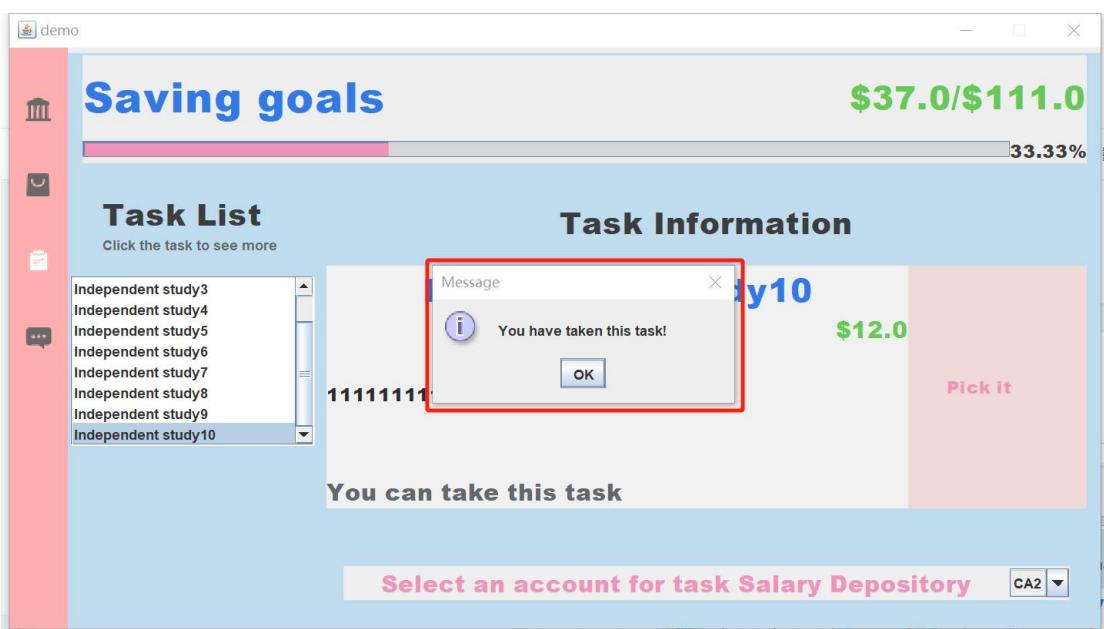
Once the account changed correctly, it will pop out a information pane to let you know.



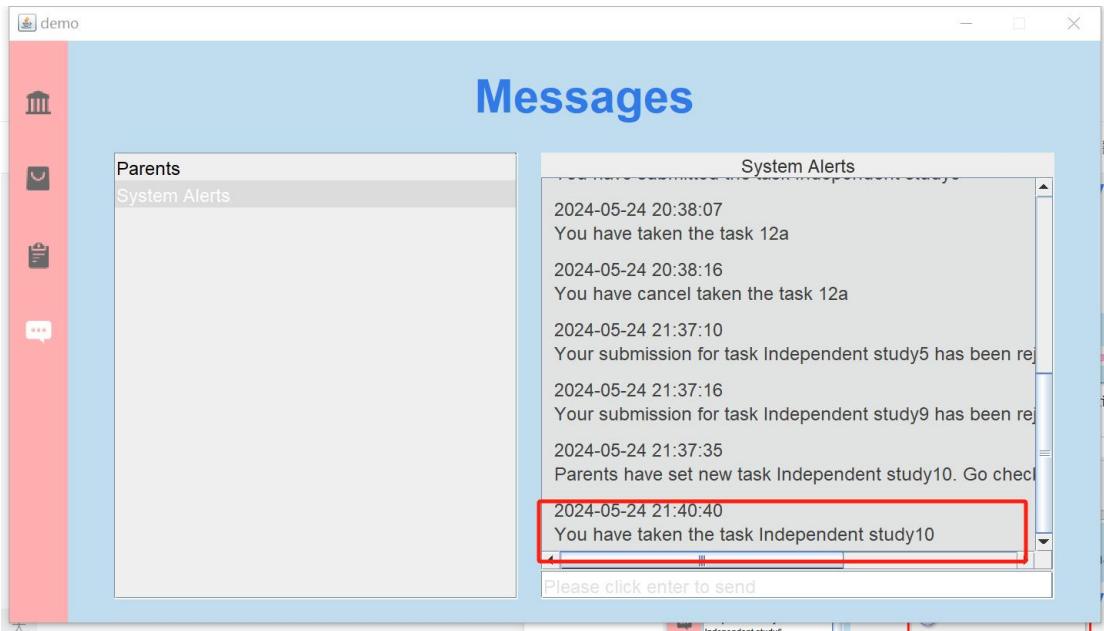
Click this to pick task. "Pick it" means this task can be taken.



Click yes to confirm picking the task No to cancel the operation.



The system will tell you that you have taken the task. Once you made any operations, it will be recorded by the system.



The operation you just made.

The screenshot shows a window titled "Saving goals" with a progress bar at the top indicating "\$37.0/\$111.0" and "33.33%".

Task List: Click the task to see more

- Independent study1
- Independent study2
- Independent study3
- Independent study4
- Independent study5
- Independent study6** (highlighted in blue)
- Independent study7
- Independent study8

Task Information

Independent study6

\$16.0

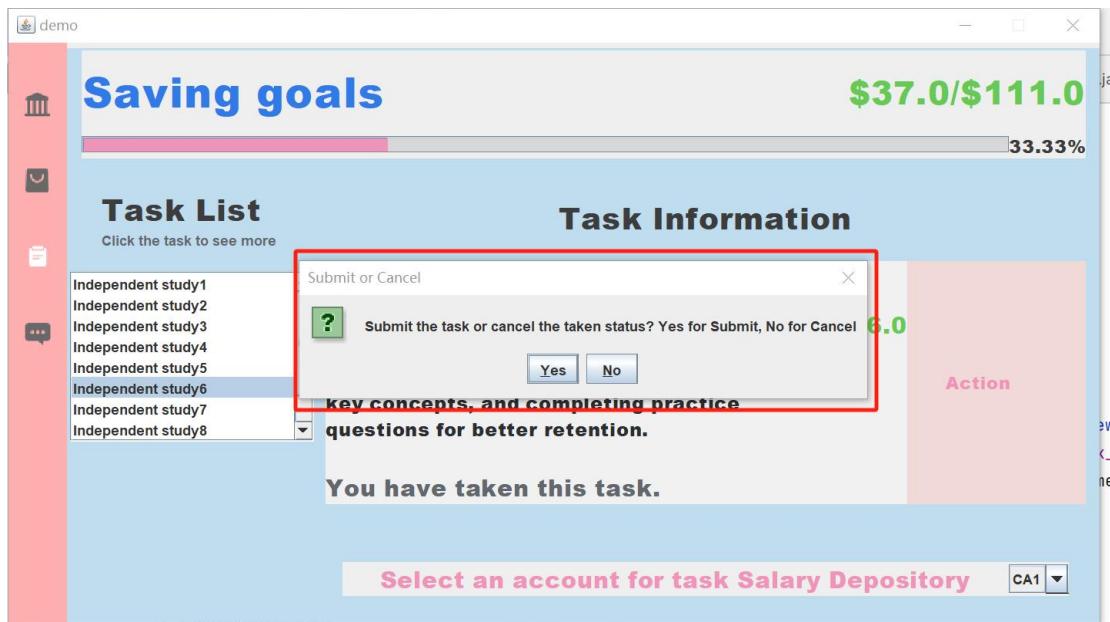
Action

Study for your upcoming science test by reviewing your notes, creating flashcards for key concepts, and completing practice questions for better retention.

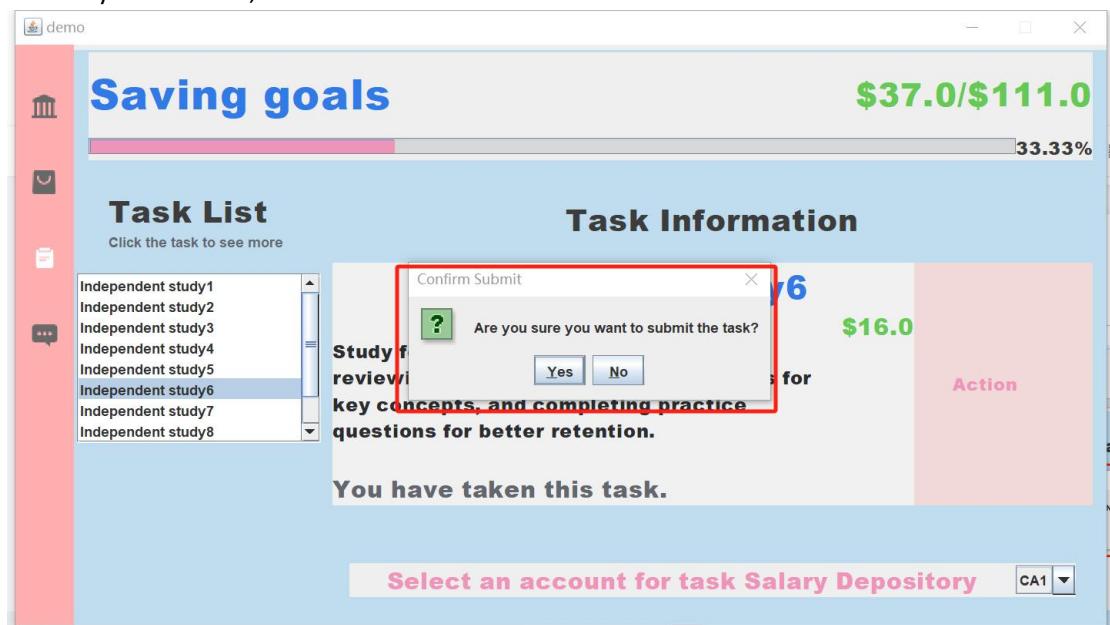
You have taken this task.

Select an account for task Salary Depository CA1 ▾

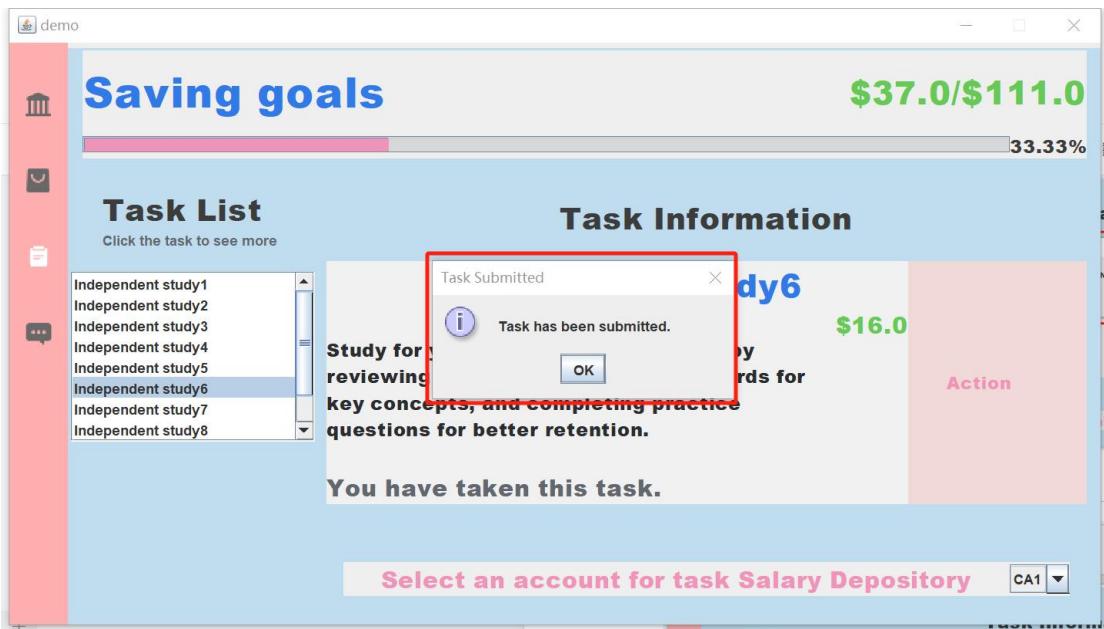
Click action to submit or cancel the task. "Action" means you have taken this task and you can submit or cancel this task.



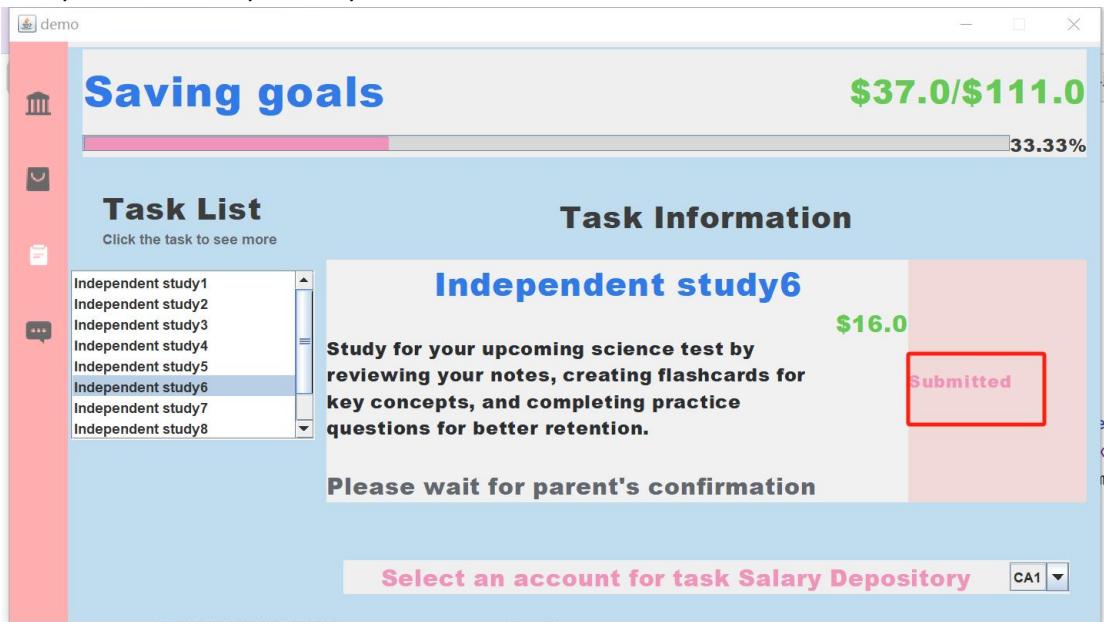
Choose yes to submit, no to cancel.



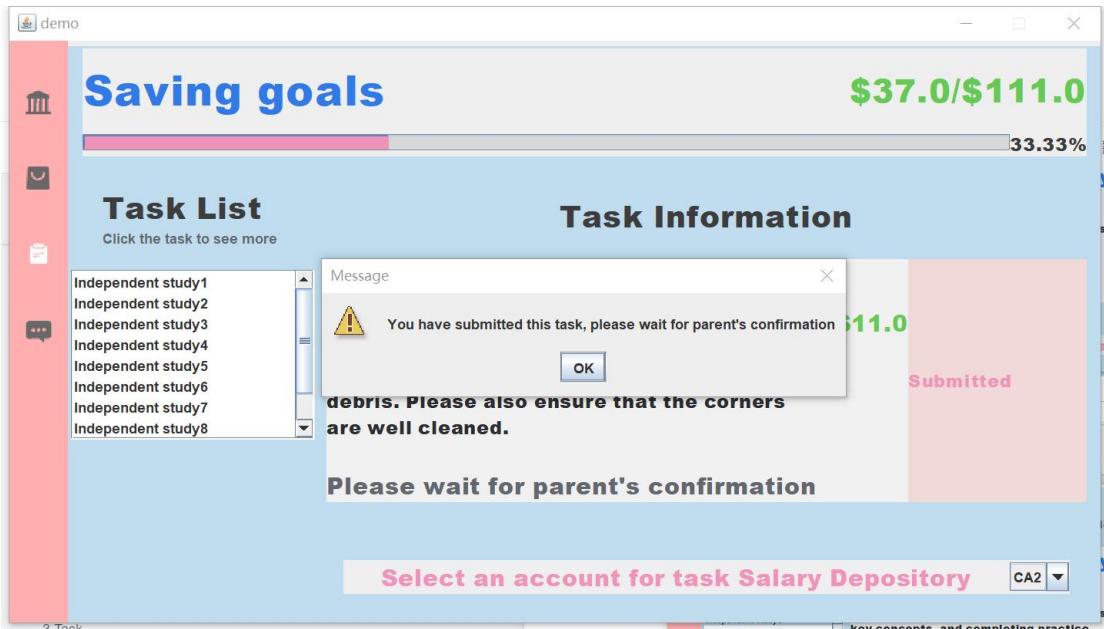
Confirmation pane. Choose yes to continue, choose no to cancel the move.



The system informed you that you have submitted the task.



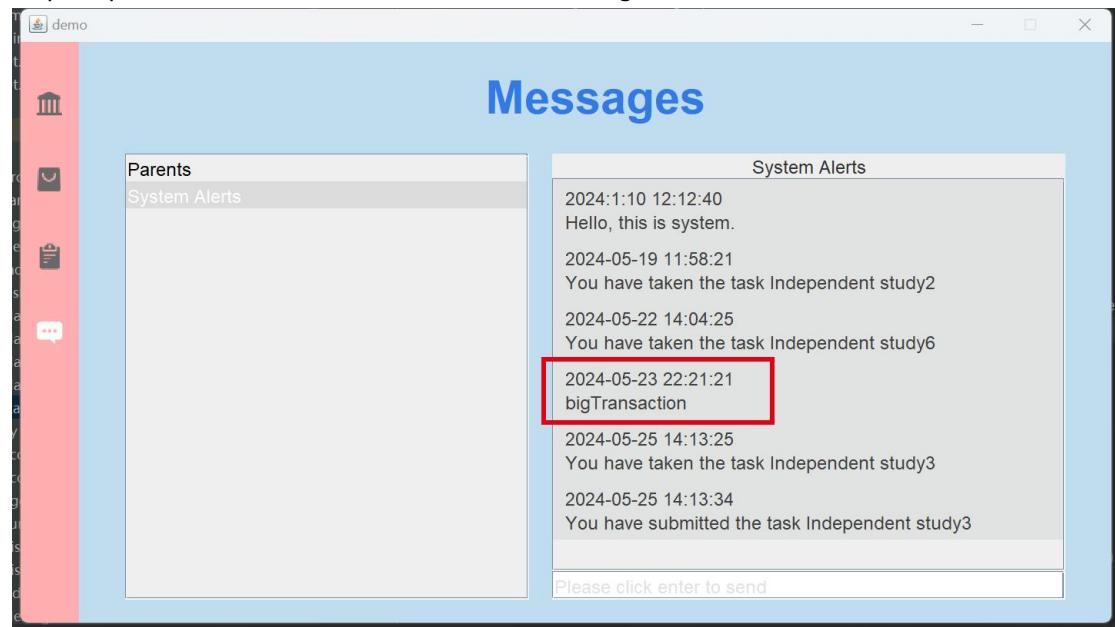
Then the state of the task will change to "Submitted" immediately. It's the same for cancelling the task and the only difference is that the task state will go back to "Pick it". Once submitted, you can't do any operation on this task, you need to wait for parent's review.



If you click "Submitted", it will show you need to wait.

2.4 Message

When kids spend more than 80% of their current account balance in the shopping cart, they will be prompted to let them know that they've made a big transaction.



When kid click the "submit" button when finishing a parent-assigned task, they'll receive a message showing that you've succeeded in the task.

Saving goals \$37.0/\$0.0
Infinity%

Task List
Click the task to see more

- Independent study1
- Independent study2
- Independent study3
- Independent study4
- Independent study5
- Independent study6
- Independent study7
- Independent study8

Task Information

Independent study1

Please sweep the floor in the living room and kitchen. Make sure to remove all dust and debris. Please also ensure that the corners are well cleaned.

\$14.0

Submitted

Please wait for parent's confirmation

Select an account for task Salary Depository CA1

Messages

Parents
System Alerts

System Alerts

2024-05-10 12:12:40
Hello, this is system.
2024-05-19 11:58:21
You have taken the task Independent study2
2024-05-22 14:04:25
You have taken the task Independent study6
2024-05-23 22:21:21
bigTransaction
2024-05-25 14:13:25
You have taken the task Independent study3
2024-05-25 14:13:34
You have submitted the task Independent study3

Please click enter to send

When the parents change the interest rate on the child's account, the child will receive a message from the parent.

The child can send a command message to the system to delete the account.

System Alerts

You have taken the task Independent study6
2024-05-23 22:21:21
bigTransaction
2024-05-25 14:13:25
You have taken the task Independent study3
2024-05-25 14:13:34
You have submitted the task Independent study3
2024-05-25 15:08:17
Parents have set new task try1. Go check it out!

2024-05-25 15:34:12
delete account

2024-05-25 15:34:12
Please specify the type of account to delete: 'saving' or 'current'.

Please click enter to send

You will be asked to choose the type and name of your account

System Alerts

Parents have set new task try1. Go check it out!

2024-05-25 15:34:12
delete account

2024-05-25 15:34:12
Please specify the type of account to delete: 'saving' or 'current'.

2024-05-25 15:34:25
saving

2024-05-25 15:34:25
Please enter the name of the saving account to delete.

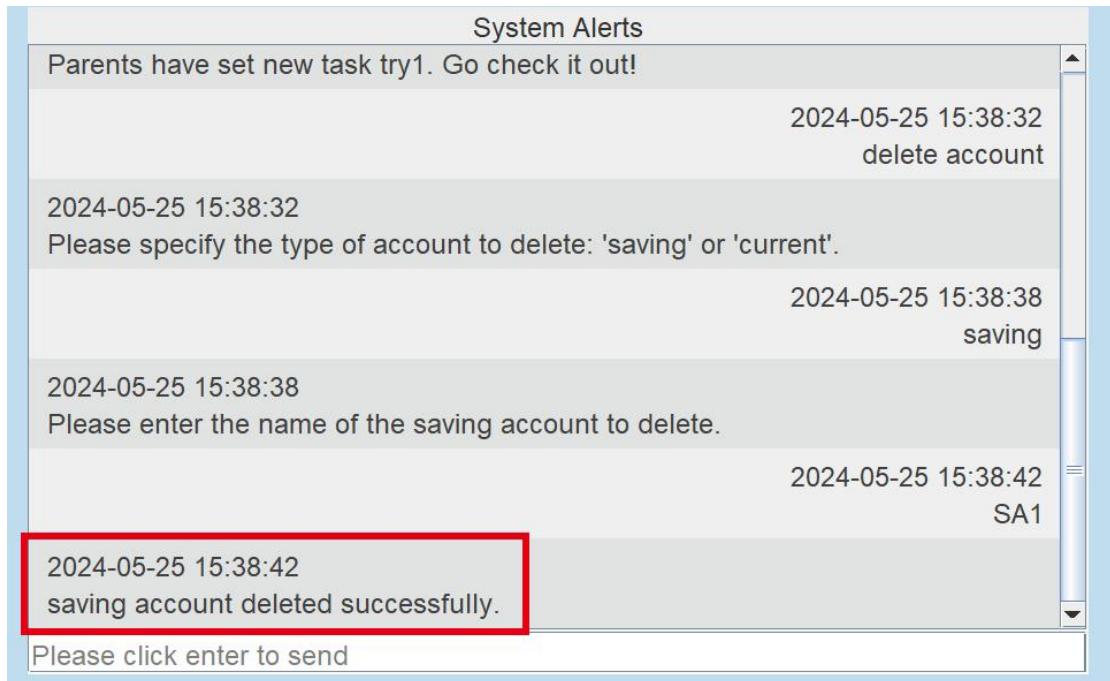
2024-05-25 15:35:25
SA1

2024-05-25 15:35:25
Account has a balance. Please clear the balance before deleting.

Please click enter to send

If the balance in that account has not been cleared yet, you'll receive a warning message telling you that you should first make all the balance cleared.

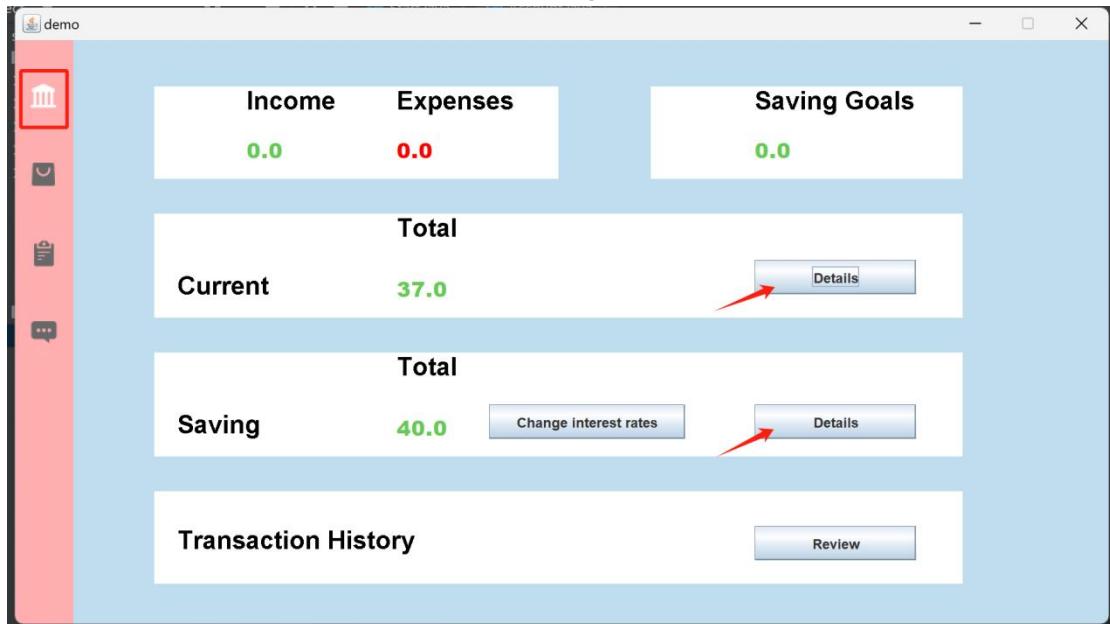
When the balance of the account you want to delete is all cleared and the account is empty accordingly, you can now delete the account successfully.



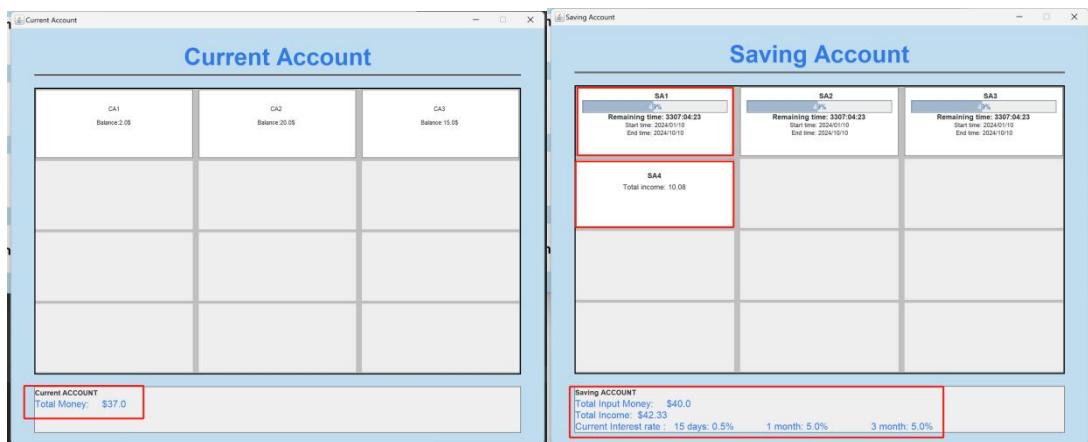
3. For parents

3.1 Bank

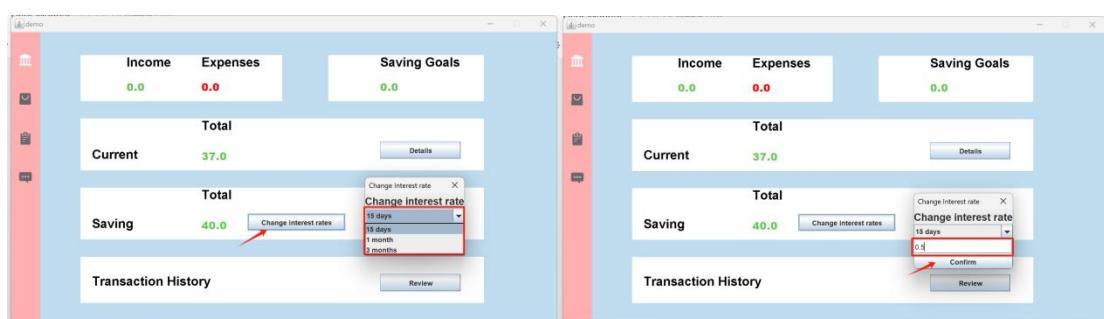
In this page of bank, you can see some information of your child, click "Detail" buttons to see more information about their current accounts and saving accounts.



You can see the total money in different accounts, also the interest rates and profits.

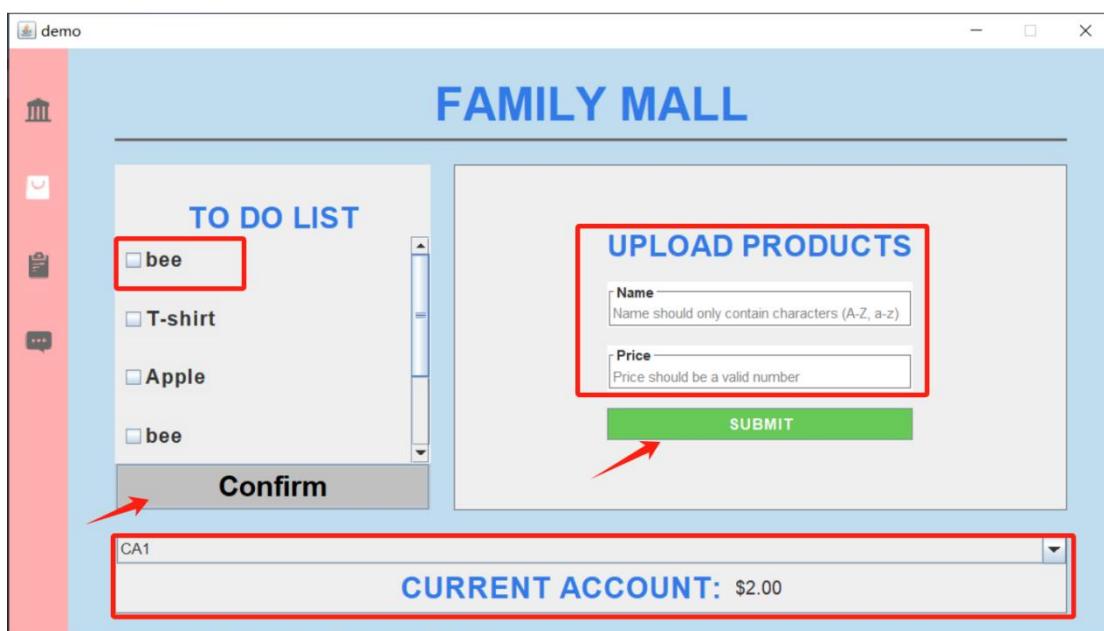


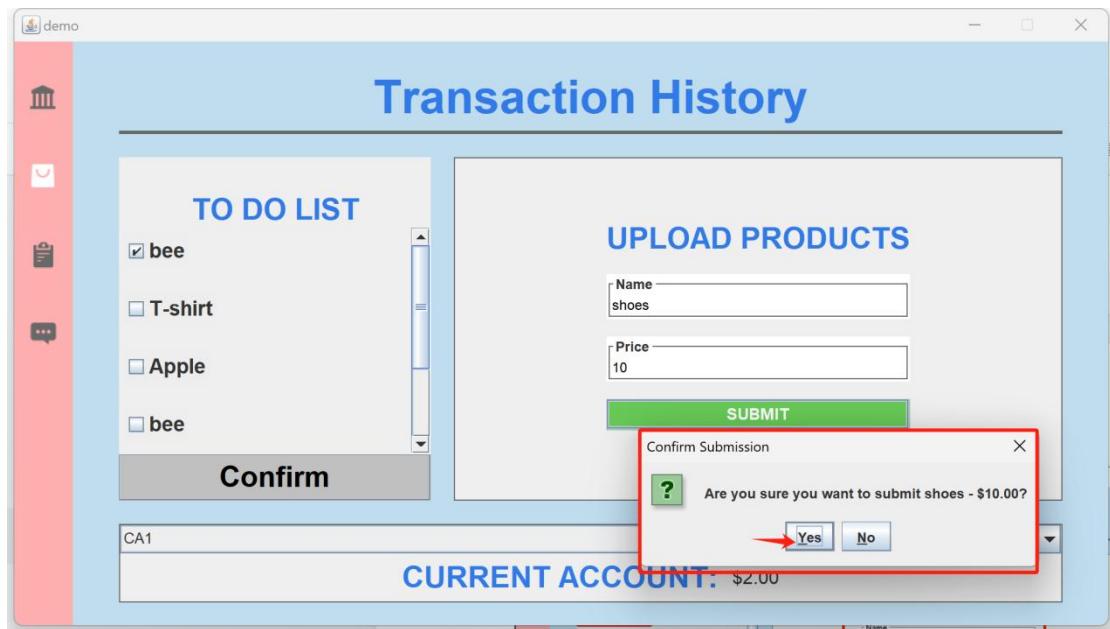
An special function of parents account is that they can change the interest rate of different saving accounts. Input the new interest rate and click the "Confirm" button.



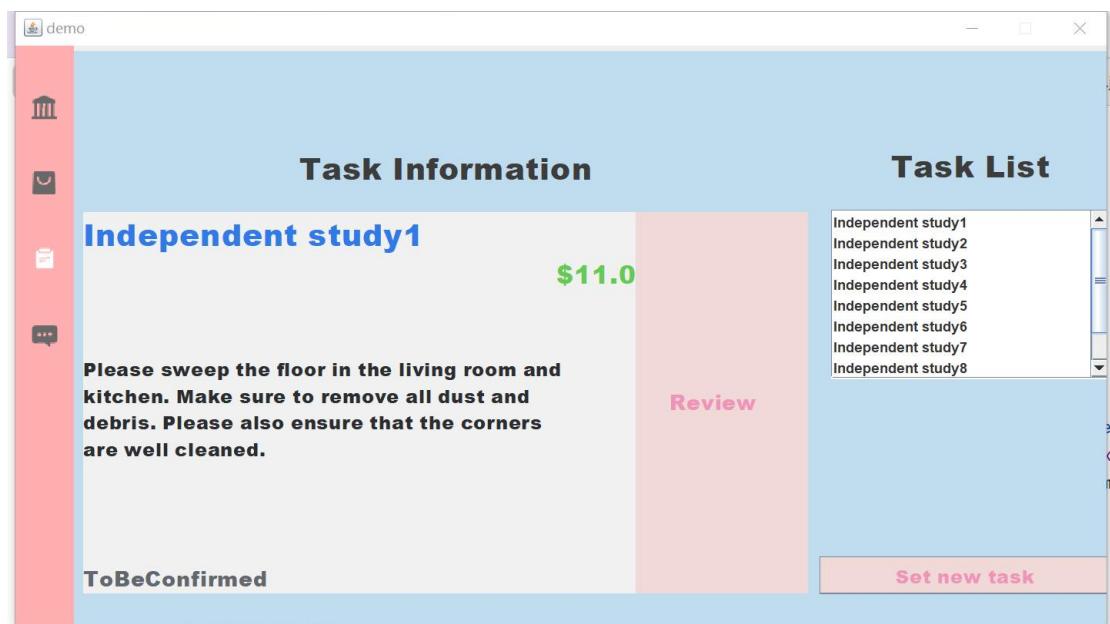
3.2 Shop

For parents, you can select an existing item from the list on the left to add it to your child's product page, or you can upload a new item, just enter the name and price! Click the "Confirm" and "SUBMIT" button to do it. You can also see your kid's account balance in the bottom.

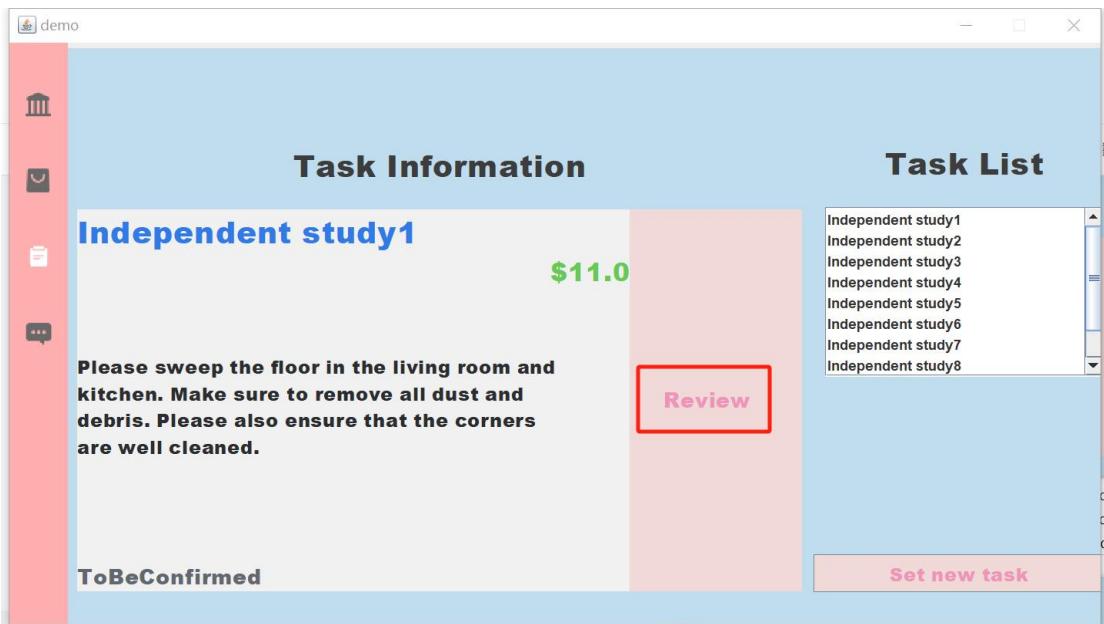




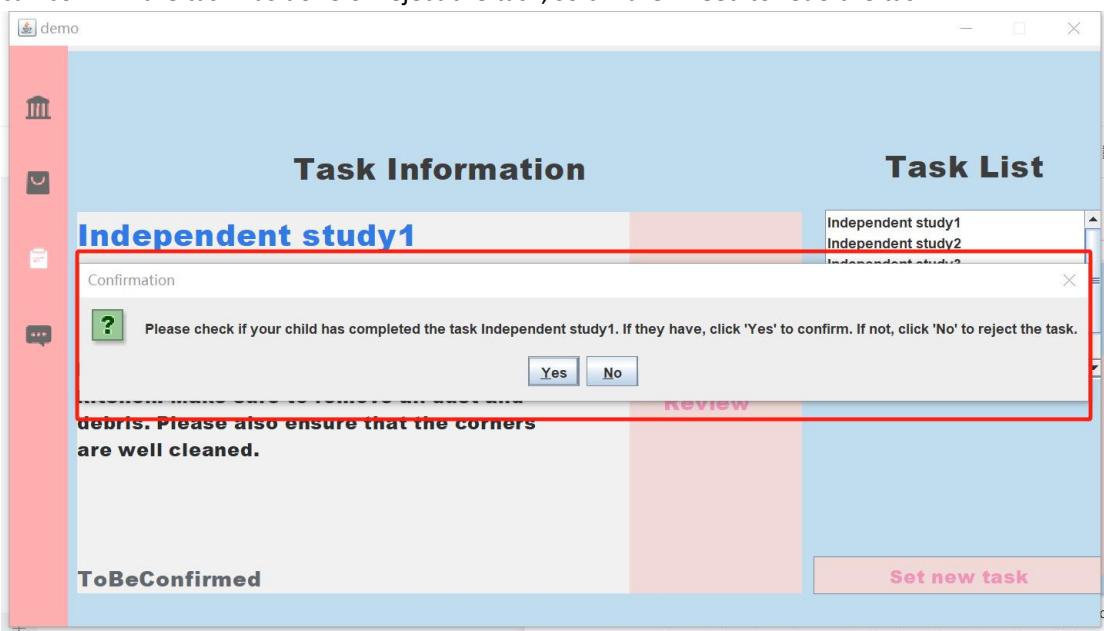
3.3 Task



The basic operation is the same with children's page, click on the task in the task list, then task information part will show the information of the corresponding task.
Parent can choose the review (confirm or reject the task) and delete the task.

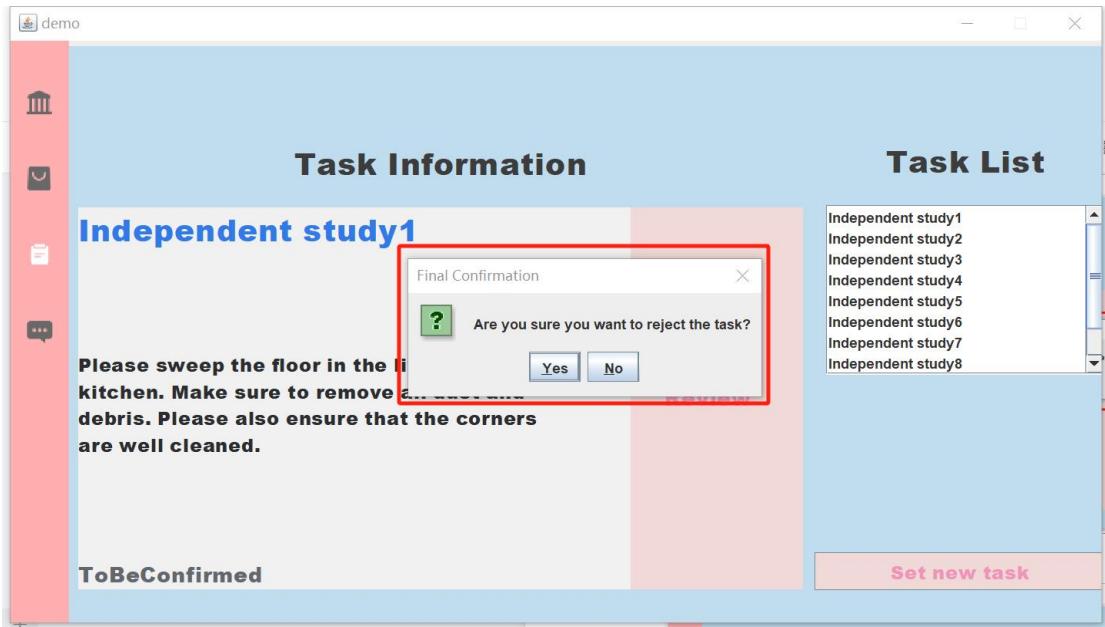


Click review to choose confirm or reject. "Review" means children have submitted their task, you can confirm the task has done or reject the task, so children need to redo the task.

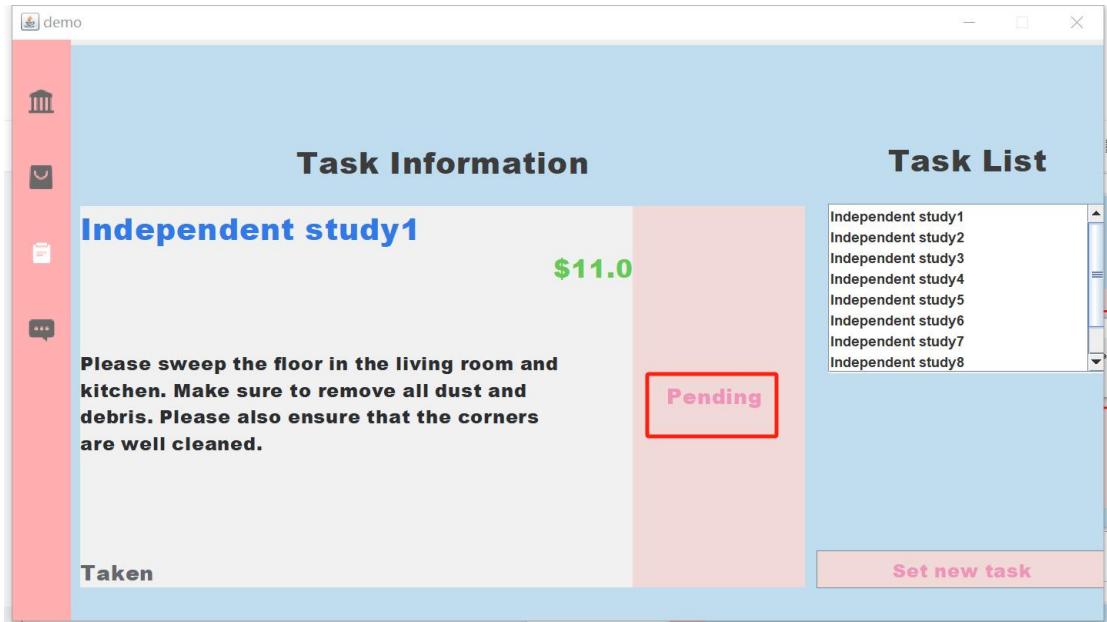


Yes to confirm, No to reject.

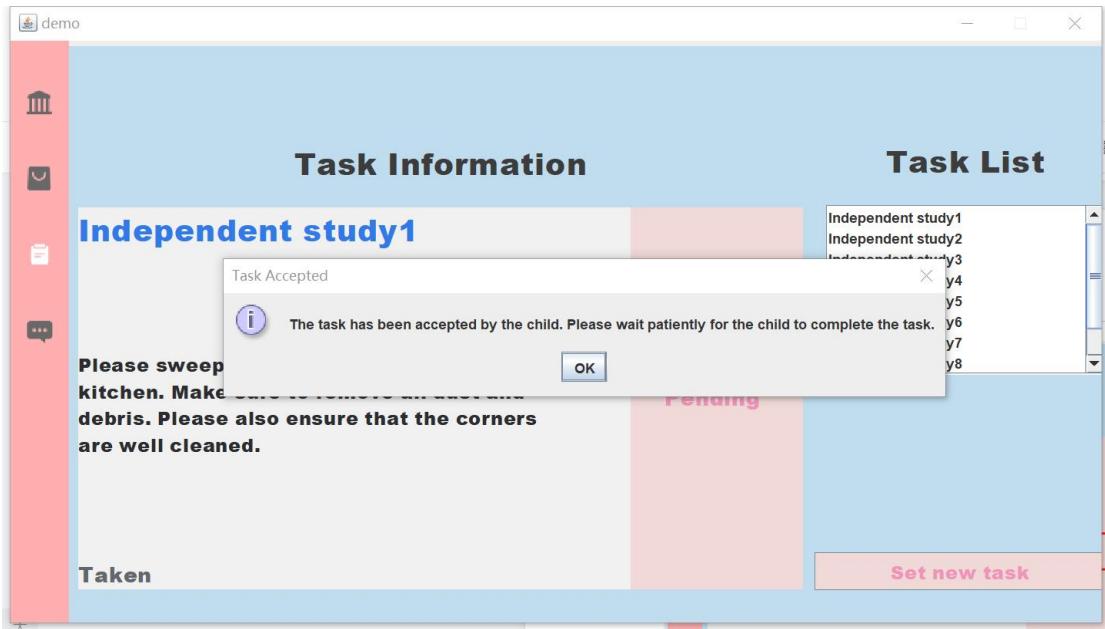
If you choose reject:



Yes to continue, no to cancel the move.

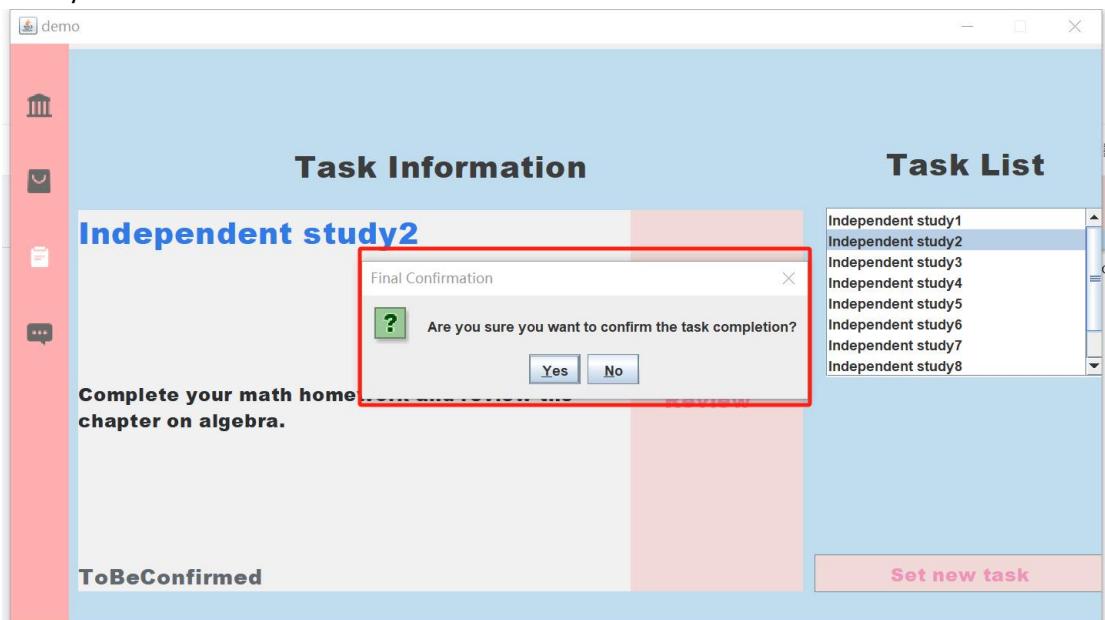


Once you reject the task, the state will change to "Pending" immediately. There is nothing you can do when a task is pending. "Pending" means children has taken the task and is in the process completing it

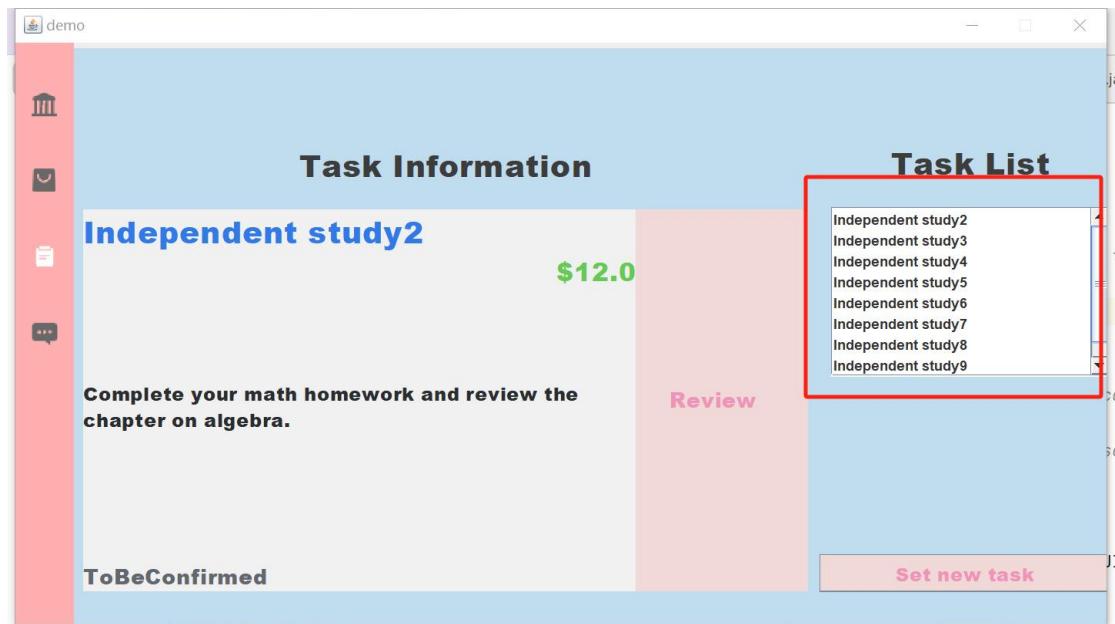


If you click "Pending", it will tell you that you can't do any operation.

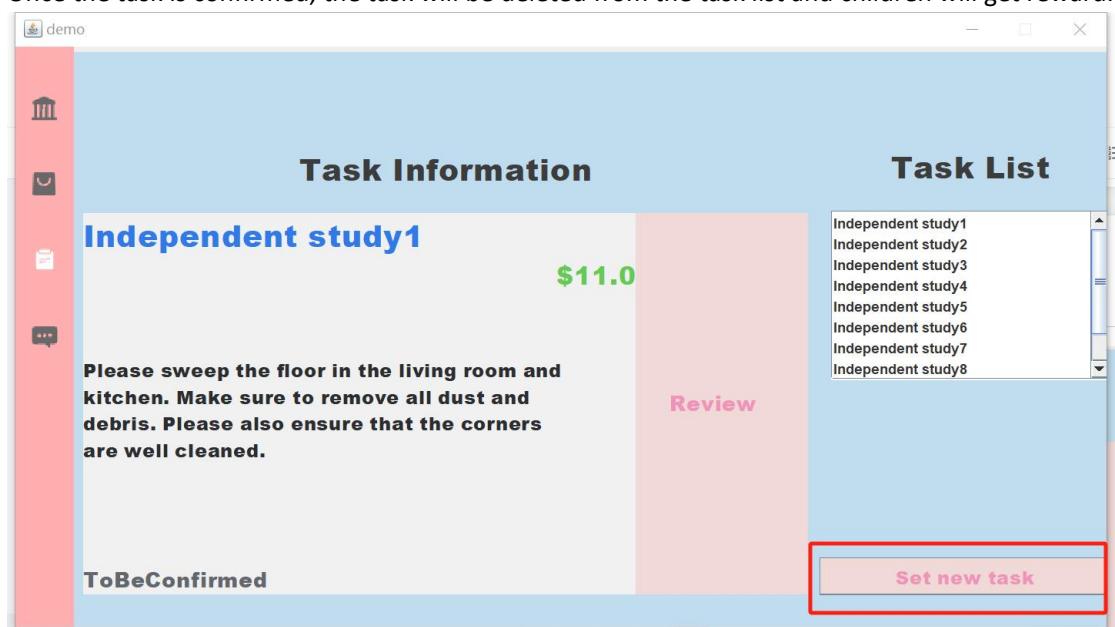
1. If you choose to confirm the task:



Confirmation pane, yes to continue, no to cancel the move.



Once the task is confirmed, the task will be deleted from the task list and children will get reward.



Click the "Set new task" button to set new task.

New Task Setting

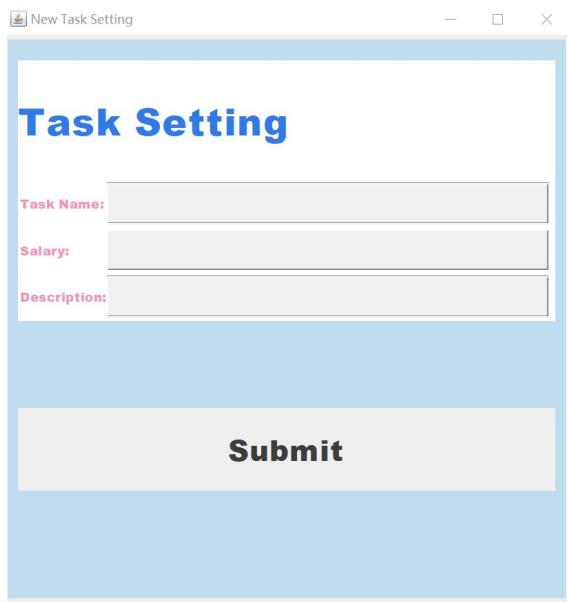
Task Setting

Task Name:

Salary:

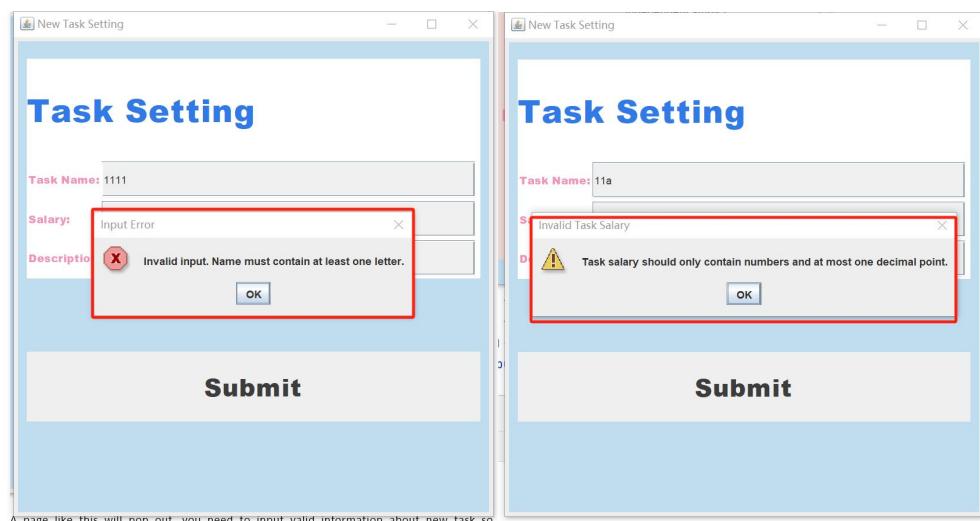
Description:

Submit

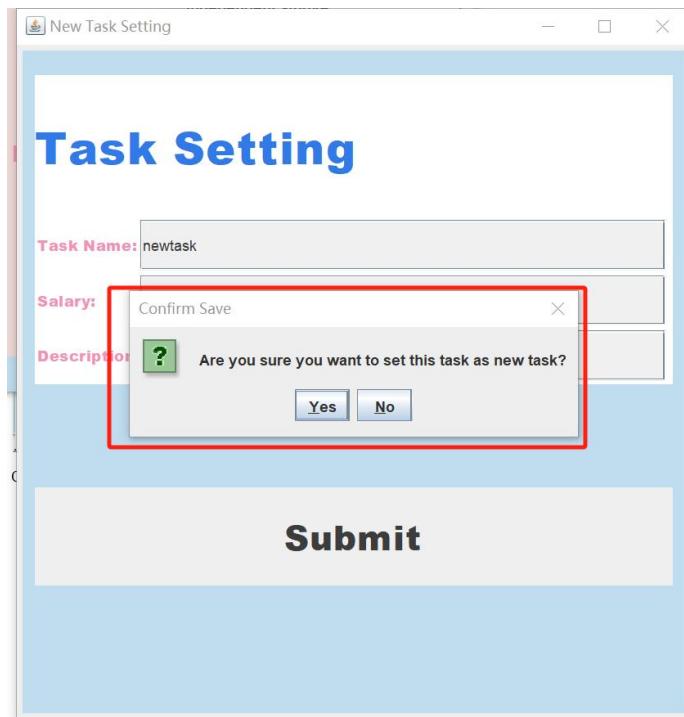


A page like this will pop out, you need to input valid information about new task so that you can set the task successfully. Click submit button to submit.

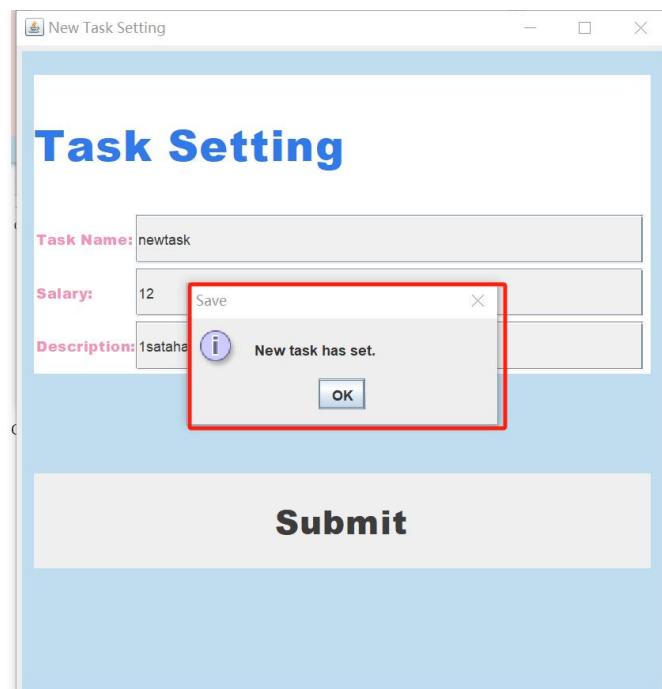
Invalid example



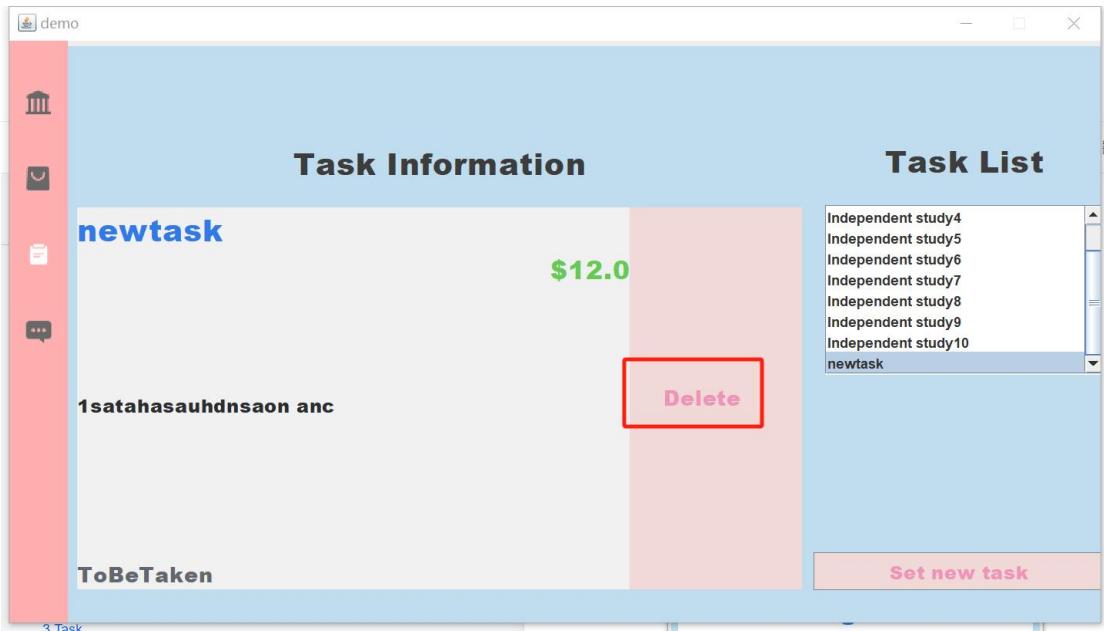
If your input is valid:



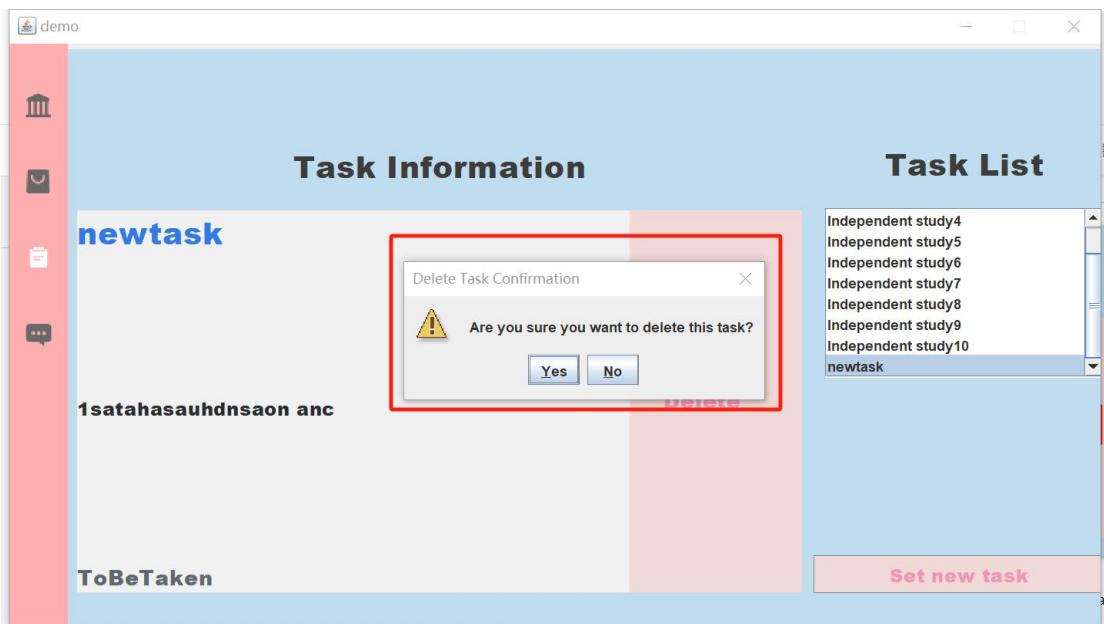
Click yes to continue, no to cancel the move.



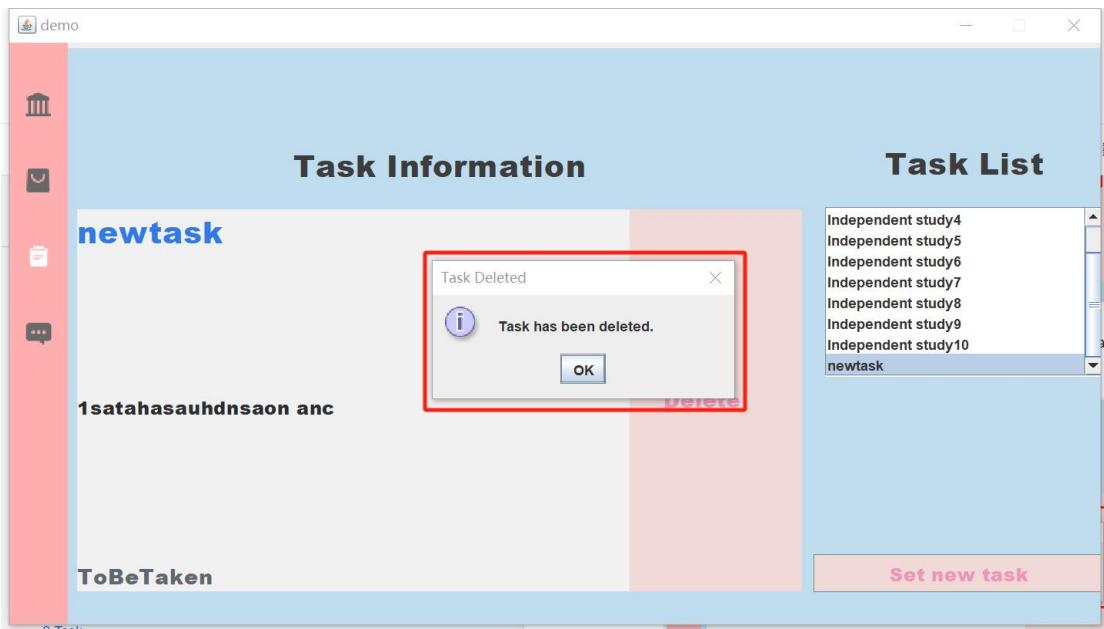
This shows the task is set successfully.



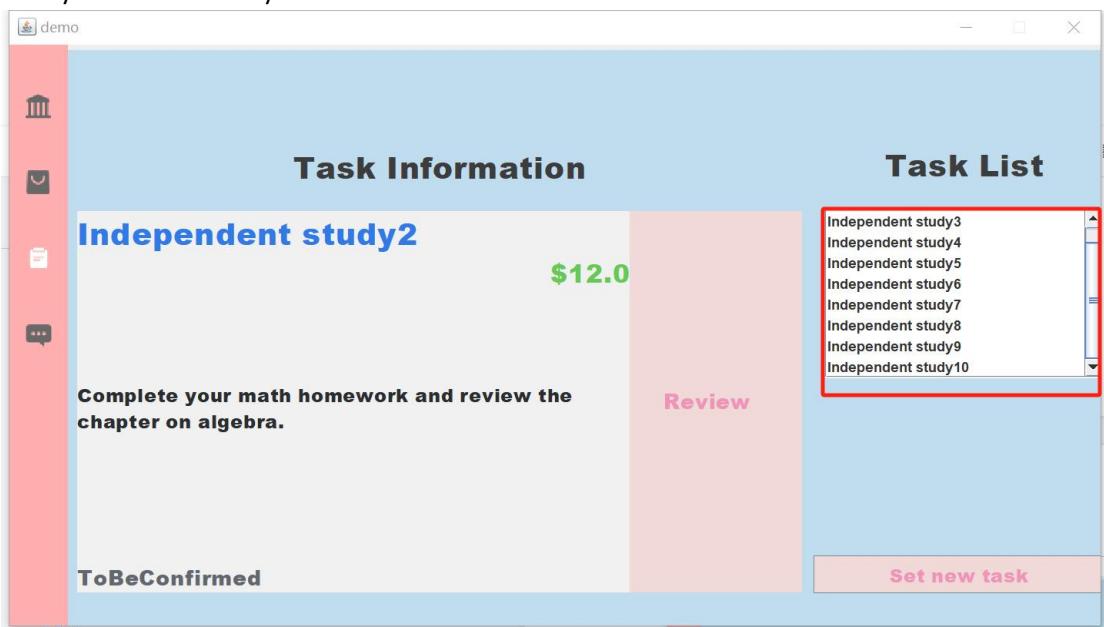
New task will be updated in the task list immediately, click the delete button. "Delete" means children haven't taken this task, you can delete this task.



Click yes to continue, no to cancel the move.



The system will inform you the task has been deleted.



The task has been deleted.

3.4 Message

Parents can create a new task and set a task achievement reward for their child, and at the same time as creating the task, the child will receive a system prompt showing that a new task has been created.

The screenshot displays three windows of a desktop application:

- Task Setting** window (top left): Contains fields for "Task Name", "Salary", and "Description". A red box highlights the input fields. Below is a "Submit" button.
- Task List** window (top right): Shows a list of tasks: Independent study1, Independent study2, Independent study3, Independent study4, Independent study5, Independent study6, Independent study7, and Independent study8. A red arrow points from the "Set new task" button in the Task Setting window to this list.
- Messages** window (bottom):
 - Parents** section: Shows "System Alerts".
 - System Alerts** section:
 - Hello, this is system.
 - 2024-05-19 11:58:21 You have taken the task Independent study2
 - 2024-05-22 14:04:25 You have taken the task Independent study6
 - 2024-05-23 22:21:21 bigTransaction
 - 2024-05-25 14:13:25 You have taken the task Independent study3
 - 2024-05-25 14:13:34 You have submitted the task Independent study3
 - 2024-05-25 15:08:17 Parents have set new task try1. Go check it out!
 - A red box highlights the last message in the System Alerts list.
 - A text input field at the bottom says "Please click enter to send".