

User Story #1: As a user, I need to add a transaction.

Use Case Name: Add Transaction

Actors: User

Goal: Take transaction input from user specification, add it to the list of transactions, and then update the balance accordingly.

Preconditions: User has started the application

Summary: The user should input their data into the date, price, and type fields for the transaction. They should then press (+) for a credit from the balance and (-) for a debit. The transaction will be added to the database and displayed in the history at the bottom of the screen. The balance is then updated accordingly.

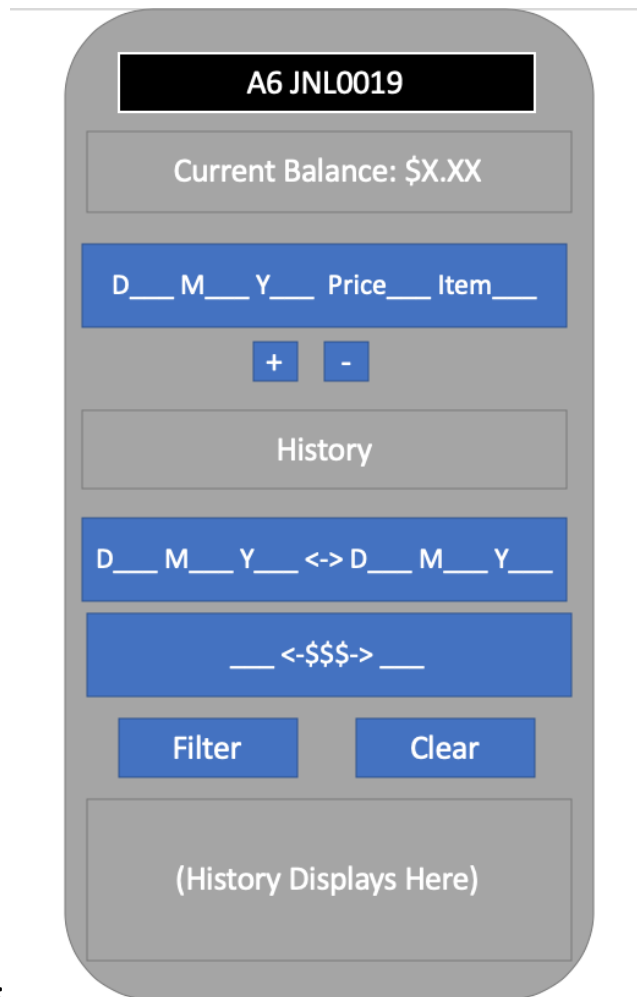
Related Use Cases: N/A

Steps:

Actor	System
Touch required fields for transaction data	Allows user to enter their date, price, and source
Specify transaction details	
Touch (+) or (-) depending on transaction type	Adds transaction to the database and history then updates the user's balance

Postconditions: System displays transactions in the user's history, the balance is updated, and the fields are cleared.

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The image shows a mobile application screen with a grey background and rounded corners. At the top, there is a black rectangular box containing the text 'A6 JNL0019' in white. Below this is a light grey rectangular box with the text 'Current Balance: \$X.XX'. Underneath is a blue rectangular box containing the text 'D__ M__ Y__ Price__ Item__'. Below the blue box are two small blue square buttons, one with a white '+' sign and one with a white '-' sign. Below these is a light grey rectangular box with the text 'History'. Underneath is a blue rectangular box containing the text 'D__ M__ Y__ <-> D__ M__ Y__'. Below the blue box is another blue rectangular box containing the text '__ <-\$\$\$-> __'. Below this are two blue rectangular buttons, one labeled 'Filter' and one labeled 'Clear'. At the bottom is a large light grey rectangular box containing the text '(History Displays Here)'.

Main Screen:

Use Case #2: As a user, I need to filter my transaction history.

Use Case Name: Filter History

Actors: User

Goal: Filter the user's transaction history by date and price

Preconditions: User has a transaction history to filter

Summary: The user inputs relevant date and price fields (not all are required). They may then use the filter button to see the results.

Related Use Cases: Clear Filter

Continued...

Steps:

Actor	System
Press desired filter field	Allows user to enter their dates and prices
Specify desired filters	
Press "Filter"	Displays relevant transactions in the history

Postconditions: The system will show the user's filtered history. To clear the filter, simply click the clear filter button.

Main Screen: See User Story #1 above.

SQL & Testing:

```
CREATE TABLE "spending" (  
    "ID"    INTEGER,  
    "ITEM"  TEXT,  
    "DATE"  TEXT,  
    "PRICE" NUMERIC  
);
```

ID	ITEM	DATE	PRICE
1	Deposit	01/01/2020	2500
2	Dinner	03/01/2020	-75
3	Tire	04/01/2020	-150
4	Gas	08/01/2020	-30
5	Phone	15/01/2020	-400
6	Deposit	25/01/2020	750
7	Gas	15/02/2020	-30
8	Groceries	20/02/2020	-200
9	Deposit	05/03/2020	1500