CSE 651 Seminar on Mobile Computing Professor Anita Wasilewska Professor Jennifer Wong

ACCOUNT BOOK

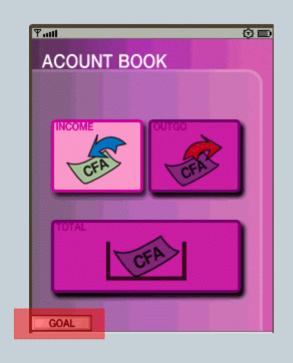
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Why an account book?

Motivation

 Managing incomings and outgoings must be the most important thing in a developing country. Thus I want to tell Senegal people about the concept of managing money and saving one.
 Especially I choose 1 person who has lots of sources of incomings and outgoings.

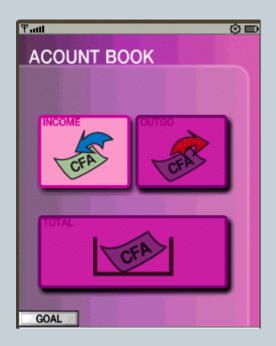
Simulation – Setting the Goal





 It is possible to store the goal that you want to save a specific amount of money

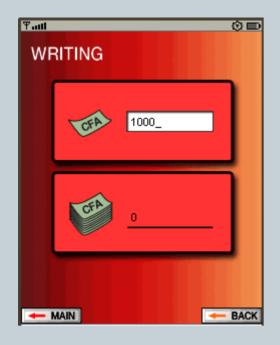
Simulation – Income(1)





 It is possible to store some amount of money that you get from each item.

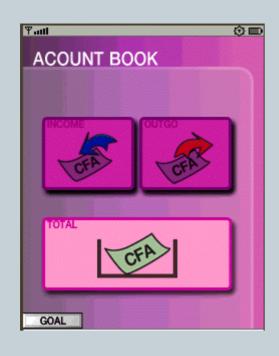
Simulation – Income(2)





- After writing number
- (money), you can store the number by clicking the enter button.

Simulation – Total(check the Income)





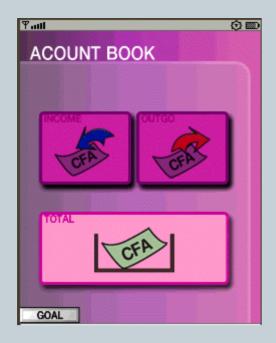
 After storing the number, you can check the result.

Simulation - Outgo



 You can store some money that you spent. After writing each value, you can check the result by clicking the enter.

Simulation - Total





 The minimum value is O(zero) not negative number.

Development Environment

J2ME(low level GUI)

• Eclipse + WTK2.5.2

Windows XP

Advantages of Low-level GUI

Low-level GUI

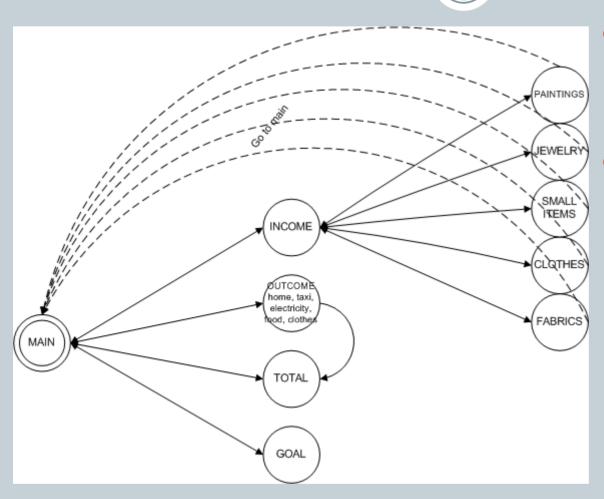
- Can control position(x, y) of items such as images, text.
- Can use buttons effectively.
 - Before using this GUI, I cannot go back to the specific menu to which I want to move. However, in this GUI, the BACK button can be used for going back from many status to other many previous status. for example:
 - 1. income menu → main menu
 - 2. outgo menu → main menu
 - 3. taxi menu → outgo menu
 - 4. jewelry menu → income menu
 - 5. ...

Disadvantages of Low-level GUI

Low-level GUI

- Is difficult to control, since every thing should be controlled by a programmer including (x, y) position.
 - For example
 - 1. High-level GUI can use a text box, images just by calling the method. However Low-level GUI should control all things including (x, y), alignment.
- Does not include some items that exist in High level GUI.
 - There is not a Text box (Text field) in the Low level GUI. Thus I cannot write number or alphabet easily. I should write or erase both number and alphabet with "drawString" method.

Account Book



- I declare one status variable for each menu.
- By using the status variable and a BACK button, I can go back and forward to the specific menu easily.

Account Book - Main Menu



Buttons

- Arrows(UP, DOWN, LEFT, RIGHT) buttons
- OK button
- Left menu button to go to GOAL menu

STATUS

- o STATUS: MAIN(Depth 0)
- MAX item index: 3 + 1(for GOAL)

SUB MENUs

- INCOME (Depth 1)
- OUTGO (Depth 1)
- o TOTAL (Depth 1)
- o GOAL (Depth 1)

Account Book - Income Menu



Buttons

- Arrows(UP, DOWN, LEFT, RIGHT) buttons
- OK button
- o Right menu button to go to Main menu

STATUS

- o STATUS: INCOME (Depth 1)
- O MAX item index: 5
- BACK button: go to MAIN

SUB MENUs

- o PAINTINGS (Depth 2)
- JEWELY (Depth 2)
- SMALL ITEMS (Depth 2)
- CLOTHS (Depth 2)
- FABRICS (Depth 2)

Account Book - Writing Menu



Buttons

- OK button to save money
- Left menu button to go to Main menu
- o Right menu button to go to previous menu

STATUS

- STATUS: INCOME_WRITING
- MAX item index: 1
- BACK button: go to INCOME
- MAIN button: go to MAIN

SUB MENUs

NONE

NO text box

I should write and erase number using "drawString" method.

Account Book - Outgo Menu



Buttons

- Arrows(UP, DOWN) buttons
- OK button to save money and go to Total menu
- o Right menu button to go to previous menu

STATUS

- STATUS: OUTGO (Depth 1)
- MAX item index: 5
- BACK button: go to MAIN

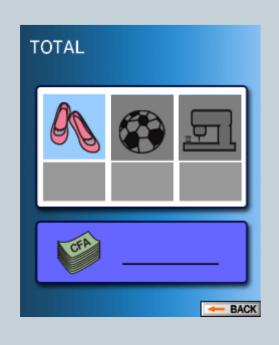
SUB MENUs

O NONE

NO text box

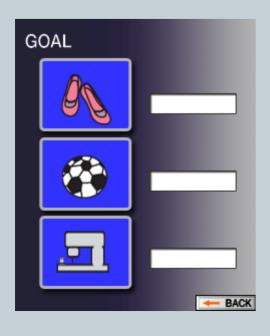
I should write and erase number using "drawString" method.

Account Book - Total Menu



- Buttons
 - o Right menu button to go to previous menu
- STATUS
 - o STATUS: TOTAL (Depth 1)
 - BACK button: go to MAIN
- SUB MENUs
 - NONE
- Progress bar has 38 steps for each 3 item

Account Book - Goal Menu



Buttons

- Arrows(UP, DOWN) buttons
- OK button to save money and go to Main menu
- Right menu button to save money and go to Main menu

STATUS

- o STATUS: GOAL (Depth 1)
- BACK button: go to MAIN

SUB MENUs

NONE

NO text box

 I should write and erase number using "drawString" method.