a. Project managing schedule – daily progress plan

Hours per each task to be done, etc.

Problem specification : 1 hour

Software analysis: 2 hours

UML: 2 hours

Improve a data file (20 characters): 1 hour

Coding and document: 5 hours

Testing and debugging: 3 hours

UML learning and design : 5 hours

Total: 18 hours

Daily progress plan: 4 - 5 hours per day

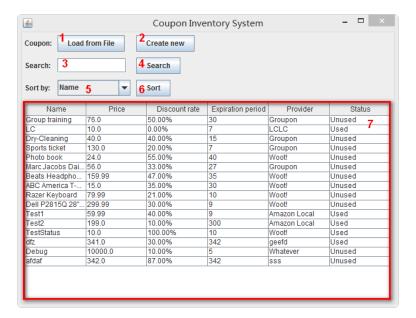b. Problem specification – What problems are solving?

This is a coupon management system software. Users can use it to manage their coupons. For example, when a user has lots of coupons, its hard to remember all the information of coupons, like expired date, discount rate, providers and so on. This software can help them solve these problems.

c. Software specification - What functions are there?

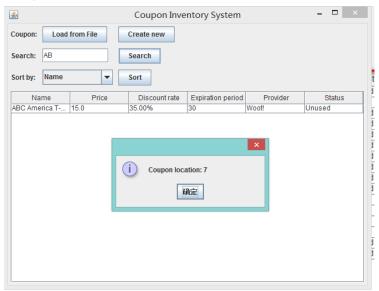Implementing a coupon project used by customers.

The software should have following functions:

1. search coupon(by name),
2. purchase coupon(by name)
3. check coupon status,
4. search coupons by key words
5. display coupons by name, status, price, discount rate, expire date, and so on
6. future implement: option of an email alert for expiring unused coupon

description of coupons

7. easy to use.

d. Design diagram document (including UML diagram)

See attached.

e. Source codes (with detail comments)

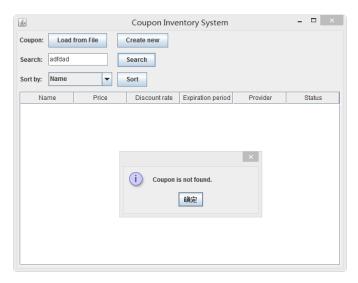f. Operational document (user's manual: how to run your project)

1. When running the system, click "Load from File"(1) button to read data from file.
2. Input a key word (ignore high and low cases), and click 4 "search" button to search coupon(or coupons) by name.
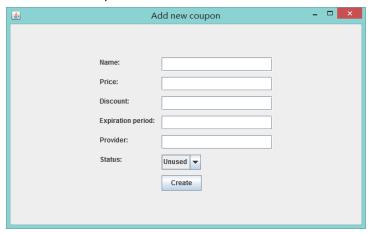   If search element is found, display coupons in cable 7, and show a window tell the location of coupons. Window shows below.

If search element is not found ,display as below:

3. Choose a sort method, and click Sort button(6). Sorted data will be displayed on table.

4. Add a new coupon by click "Create new" button(2), display a new window to add information of new coupon.

5. When click on "create" button, if all the input text is valid, program will write the new coupon in input file and refresh data of table.

g. Testing document (your own created one) with input data file
   See attached.

h. Debugging note (if available)

i. Future improvement document (if available)
   1). Create delete function.
   2). Expired date could be changed automatically by current time.

j. Visual presentation screen shots (step by step) how your project works.
   See question f.

k. A data file (or more files)
   File name: coupon list.txt