

- 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)

Coupon Inventory System

Coupon: **1** Load from File **2** Create new

Search: **3** **4** Search

Sort by: Name **5** **6** Sort

Name	Price	Discount rate	Expiration period	Provider	Status
Group training	76.0	50.00%	30	Groupon	Unused
LC	10.0	0.00%	7	LCLC	Used
Dry-Cleaning	40.0	40.00%	15	Groupon	Unused
Sports ticket	130.0	20.00%	7	Groupon	Unused
Photo book	24.0	55.00%	40	Woot!	Unused
Marc Jacobs Dai...	56.0	33.00%	27	Groupon	Unused
Beats Headpho...	159.99	47.00%	35	Woot!	Unused
ABC America T-...	15.0	35.00%	30	Woot!	Unused
Razer Keyboard	79.99	21.00%	10	Woot!	Unused
Dell P2815Q 28"	299.99	30.00%	9	Woot!	Unused
Test1	59.99	40.00%	9	Amazon Local	Used
Test2	199.0	10.00%	300	Amazon Local	Used
TestStatus	10.0	100.00%	10	Woot!	Used
dfz	341.0	30.00%	342	geefd	Used
Debug	10000.0	10.00%	5	Whatever	Unused
afdaf	342.0	87.00%	342	sss	Unused

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.

Coupon Inventory System

Coupon: Load from File Create new

Search: AB Search

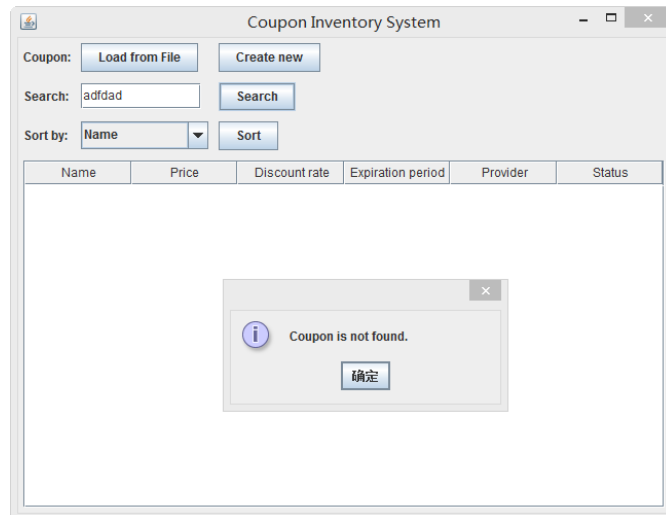
Sort by: Name Sort

Name	Price	Discount rate	Expiration period	Provider	Status
ABC America T-...	15.0	35.00%	30	Woot!	Unused

i Coupon location: 7

确定

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