

CS425 final project report

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Design

This program mainly has two parts. One is a PHP Client which is a webpage interface to interreact with the server. The other one is a java server that takes command from clients and access to database to retrieve certain value accordingly. In this case client do not have direct access to the database, all database operations are done by the java server. Most of the privileges checks are done by the java server and a small part is done by the php session (i.e. login). As we don't have extra time the webpage is just plan text.

The program fulfilled all requirements specified by the project description material on following ways:

- Register: There web client provides a page for the user to register when inputing a distinct username.
- Join group: After successful logined, the user can see a list of joined and not joined groups. User can access joined groups by clicking the group name and join an unjoined group by click the join link.
- Add restaurant: User can add a restaurant when under the restaurants list page.
- Restaurant reviews: By clicking corresponding restaurant name, user can access the reviews of the restaurant. User can post a review by submitting the form at buttom of the page.
- Computer comments: User can see a list of comments when access the computers group. Each comments are specified by their subject, computer brand and title. User can post a comment by submitting the form at buttom of the page.
- Add account and card: user can add multiple bank accouts and credit cards by clicking the account link on the index (groups) page.
- Sell/buy computer: By specifying 'sell' on the subject field and inpt a price value, user can post a computer to sell on the page which has and purchase option after the comment. A buyer can purchase the computer by clicking the purchase link. A computer can only be purchased once.
- Rating: Every comment on restaurants or computers can be rated by clicking thumb up or thumb down buttom.
- Point: Every user has a initial point of 0, every new post made by the user will increase the point by 5.
- Manager: The manager for specific group can see and extra field under the review page shows the point the user get by posting specific review. Manager can alter this value by clicking on the point.

Files included:

Server.java - the java Server

To compile: javac Server.java

To run: java -classpath ".:ojdbc7.jar" Server (need the ojdbc file to be in the same directory as the Server class)

create.sql - create all the schema and triggers required for the program.

insert.sql - initialize groups and two managers.

php folder - contains several php files for the web interface. We used webserver on local machine for test.

Test cases:

- As the program consist of a php GUI, all tests are done by operating the web pages.
- Try resgister - Try dupilcate username.
- Try login.
- Add bank card and bank account.
- Join group.
- Enter the group page, view restaurants/restaurant reviews/computer comments.
- Post new restaurant, new reviews and new comments.
- Try sell/purchase a computer.
- Try rate a comment/review.
- As a manager try alter the point for a review/comment
- Try logout.

Requirement	Test	Expected Outcome	Actural Outcome	Passed
account information and update	Can add Credit Card Account	Credit Card Account Added	<p>Welcome sfeng14 (14) Logout Back</p> <p>Your accounts: BOA Account:98003 Balance:90</p> <p>Your credit cards: VISA 4000700060004213</p> <p>Add Account Add Card</p>	PASS
E-commerce on PCs Filtering based on restaurant name or PC brand an ordinary user cannot change another user's credit points	Purchase Computers	The computer is sold.	<p>Welcome sfeng14 (14) Logout Back</p> <p>Comments:</p> <p>Post: -[sell]Macbook sale- brand:Apple Almost new macbook pro perfect condition. 🍌(0)🍌(1) price: 999 - sold</p> <p>Post: -[sell]new- brand:new new 🍌(0)🍌(0) price: 90 - sold</p>	PASS

membership registration	Register	New user can be registered	User Name: <input type="text" value="fs91"/> Password: <input type="password" value="...."/> email address: <input type="text" value="fs91@vip.qq.com"/> <input type="button" value="register"/>	PASS
membership registration, deny membership	Login	Users can login	Register User Name: <input type="text" value="fs91"/> Password: <input type="password" value="...."/> <input type="button" value="Log In"/>	PASS
Filtering based on restaurant name or PC brand	List Groups, Show groups user currently joined	Behavior as expected	Welcome fs91 (0) Account Logout Joined Groups: Not joined Groups: Restaurant--Review and rate restaurants Join Computer--Review, ask, get and sell computers Join	PASS
participation in interest groups	User can join groups	can join	Welcome fs91 (0) Account Logout Joined Groups: Restaurant --Review and rate restaurants Computer --Review, ask, get and sell computers Not joined Groups:	PASS
Filtering based on restaurant name	List all added restaurants	Show all restaurants	Welcome fs91 (0) Logout Back Restaurants: KFC - Well known Kentucky Fried Chicken Laosichuan - Chinese restaurant rest - rest Mcdonalds - american fast food Add new restaurant: Restaurant name: <input type="text"/> Restaurant Description: <input type="text"/> <input type="button" value="add"/>	PASS

Post new topics,	Add restaurants	Restaurants added	<p>Welcome fs91 (0) Logout Back</p> <p>Restaurants:</p> <p>KFC - Well known Kentucky Fried Chicken</p> <p>Laoszichuan - Chinese restaurant</p> <p>rest - rest</p> <p>Mcdonalds - american fast food</p> <p>new restaurant - new restaurant</p>	PASS
see reviews obtaining credit points and assigning credit points to contributions routine and specific	Show all reviews and credits about restaurants	Can show them	<p>Welcome fs91 (5) Logout Back</p> <p>Reviews:</p> <p>sfeng14 Says: Good value buffet.  (2)  (1)</p> <p>fs91 Says: new review  (2)  (1)</p> <p>hshu Says: Original chicken really good.  (1)  (0)</p> <p>feng Says: good  (1)  (0)</p> <p>Write review:</p> <input data-bbox="882 943 1155 960" type="text"/> <p>add</p>	PASS
post reviews, an ordinary user cannot change another user's credit points	Post new review User can not change rate	A new Review Posted user cannot change rate	<p>Welcome fs91 (10) Logout Back</p> <p>Comments:</p> <p>Post: -[sell]Macbook sale- brand:Apple Almost new macbook pro perfect condition.  (0)  (1) price: 999 - sold</p> <p>Post: -[sell]new- brand:new new  (0)  (0) price: 90 - purchase</p> <p>Post: -[review]Thinkpad carbonX- brand:Lenovo Good computer with high but reasonable price.  (0)  (0)</p>	PASS
rate reviews obtaining credit points and rankings, assigning credit points to contributions routine and specific	Manager can change credits of reviews	Credit changed after manager's request	<p>Welcome sfeng14 (14) Logout Back</p> <p>Reviews:</p> <p>sfeng14 Says: Good value buffet.  (2)  (1) point</p> <p>fs91 Says: new review  (2)  (1) point:(5)</p> <p>hshu Says: Original chicken really good.  (1)  (0)</p> <p>feng Says: good  (1)  (0) point:(5)</p>	PASS