

QUESTIONS FOR REPORT

Include answers of the following questions in your report:

1. Your name : Liangming Lin
2. Your Team's name : myWaytor
3. Your project's GitHub link : Initial draft link : <https://github.com/LLIN8/myWaitor>
Improved draft link : <https://github.com/LLIN8/NEW>
Overall/Final draft link : <https://github.com/LLIN8/myWaytor>
4. Purpose of this app : To allow customer to order at their own pace and allow fast service since no need to wait for a waiter or waitress to take the orders.
5. Features of this app : Login interface that allows user to login with their account Register interface that allow new user to register their account GPS locates the customer's location and shows the restaurant Base on the restaurant they the customer to the appropriate menu page, the menu page provide image for the customer to click in to make orders, also tabs categorize the food for faster search. Summary page that display the food the customer ordered Payment page that allow customer to pay either with cash or card included functions like tips
6. Feature(s) you are responsible for : I am responsible for creating the menu page, summary page, and the payment page.
7. Your contributions to the project : I contributed to the project by creating/designed all the menus pages with the all the image button, summary button, and logout button. Furthermore implemented the image button, summary button, and logout button to does the appropriate function. I also created/designed all the summary pages and the payment pages with all implementation to the functions that are associated with those pages. Moreover I implemented about 5% of code at database file where the function called insertMenu1, insertMenu2, getAllData, getAllData2 and deleleData.
8. Challenges you've faced(not the whole group) in the following aspects:
 - A. Communications among group members
 - i. Challenges : Since we communicated through text and in person only when we are communicating with text we cannot define the problems directly because sometime we cannot explain well with text, therefore, we have to wait until we meet up to see the actually problem

ii. How did you address them?

Once we have found the problem we then gather up or meet up together to solve the problem.

B. Design process

I. Challenges : We initially wanted to create the app with multiple category, however with the limited time amount given and team members we think we will not able to finish on time. So we have to come up with new idea afterward. Another design challenge is that initially I wanted to create a scroll down activity but scroll down activity cannot categorize food therefore, I give up on the scroll down activity.

II. How did you address them : We address this problem by narrow down the category to only doing on restaurant, since it was only one category we believe we can make finish the project on time. I addressed the second challenge by changing scroll down activity to tabbed activity since tabbed activity can help us categorize food easily.

C. Development process

I. Challenges : One of the challenges was to get the data to display in the summary page that allows customer to see their orders. I was not able to figure out how to pass data from one activity to another activity using constructor or using database to display at an activity. Also I was unable to make click on a button and display the data on the next activity. Another challenge that I had was unable to access to another activity using imagebutton when I was using tabbed activity.

II. How did you address them: I address these problem by search on the internet, looking examples from stackoverflow and youtube videos. I fixed the data passing by using examples given from the stackoverflow where I follows the steps giving from stackoverflow one by one and modify the codes so it does what I wanted to do. I fixed the image button by watching youtube videos where it explains how tabbed activity works and which built in code I need to delete in order to make the button work.

D. Testing process

I. Challenges : Some examples of crashes that I had are when I tried to call database without pointing the object it returns a null-object error. When I tries to fetch data from database when there is no data inside it gives me a index error, When I tries to display the price it display more than 4 digits. I have made numerous testing draft to test each function separately however, for some reason android studio decide not to save those project(draft) so I have lost many of my testing draft that I created so I can only put down what I remember from the testing.

II. How did you address them : I address the first one crash by pointing the db object to database. I address the second crash by creating a function to check if the database is empty or not, if it is then display a message to warn the user. I address the third crash by creating a numberformat function where it display only 4 digits of double.

9. New skills you have acquired throughout this project : One new skills that I have acquired is how to work with tabbed activity in android studio and making the buttons to start activity to another activity. Another skill that I have acquired throughout this project is learned how to work with github and utilize the commit function. I also learned how to display data using database.

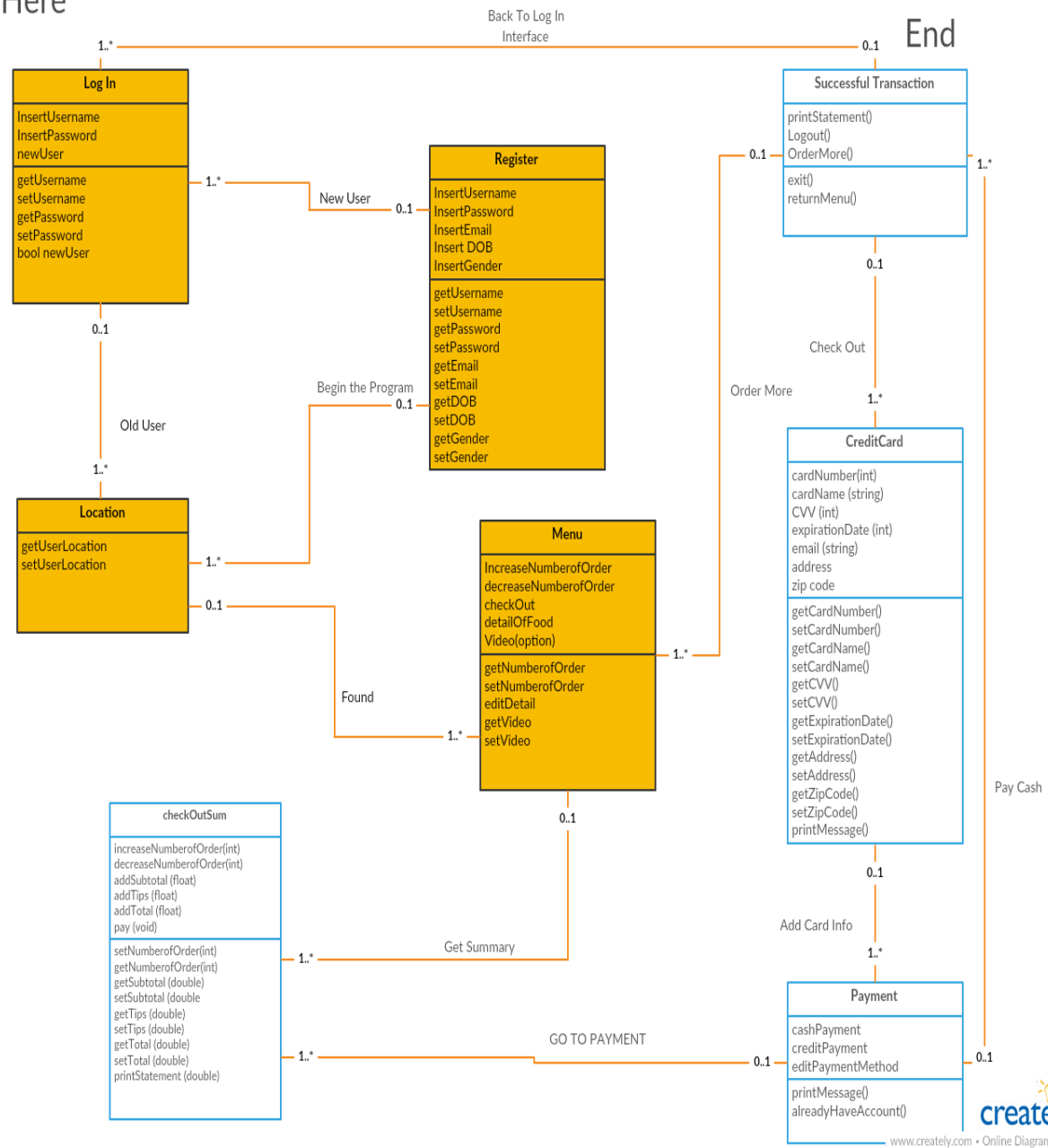
10. Method(s) of acquiring the skills mentioned above : google, stackoverflow, youtube and luck.

11. If you can start your project from scratch again how will you proceed differently?

If I can start my project again from scratch I would like the project to be based on airline business or traveling business than restaurant. I would change the UI design of the project, with better looking UI and more pictures add to it. Furthermore, I would add a slide layout so the imagebutton actually expands out and fit the screen properly and allows more menu items to be display at the menu. Overall I fell like the lack of UI design made our app not to be perfect, other than that I am 100% satisfied with this project.

Diagram below is created by me

Starts
Here



Source Codes are in the files with percentage of work listed