

You are asked to design a food delivery app for the restaurants in GTA.

Part1:

The user must sign in the App with correct email address and password. If login credentials are incorrect, then user can attempt login for 3 times. If login is incorrect for 3 times, then system quits by displaying message "Login information not found". The new user can sign up by providing name, address, email, phone and credit/debit card number. Then are prompted to set password.

Once the login is done, the App asks for accessing location services. If user permits, then the user's location is detected and saved. Otherwise, user is asked to enter the location, where they want to search the restaurants. The user must select type of restaurants like pizza, Mexican or grill. Based on this choice, the restaurants within 25 kilometers of the location provided are listed. User then selects one of the restaurants. The menu of the restaurant is displayed along with the prices. User selects their choice of food with required quantity. User can order from only one restaurant at a time. The total is calculated with 13% HST. The user must confirm the address by clicking yes or no button. If no is clicked then they must enter new address (must be within 25 kms from selected restaurant).

The payment must be through credit or debit card. The user must confirm that they are using same credit/debit card that is

entered by them at the time of sign up. If not, they can change it.

Black boxes: Location service.

Restaurant Menu and prices.

Payment Process

Part 2:

The restaurant owners can register themselves on this app.

. First, the business owners provide information about their restaurant: name of the restaurant, type, address, business registration number. The second step requires the system administrators to manually approve and if approved the third step is needed where the restaurant owner must provide their menu along with prices. If not approved the particular restaurant is added to the “Non approval list.” Restaurants are prompted to enter name of the dish, preparation (Vegetarian, vegan, spicy) and price. This process continues till all the items are added. The service fee of 2% is then added to the charges. The final menu is displayed and made visible to the users.

1. Determine the data structure(s) you will need to use in the solution. Document the data structures in both the pseudocode and in your flowchart.

2. Develop a pseudo code for Part-1 portion of the system.

3. Develop flowchart for Part-2 portion of the system Your solution for both the flowchart and pseudo code parts should

be done in sufficient detail so that it could be easily translated into a computer program by a programmer.