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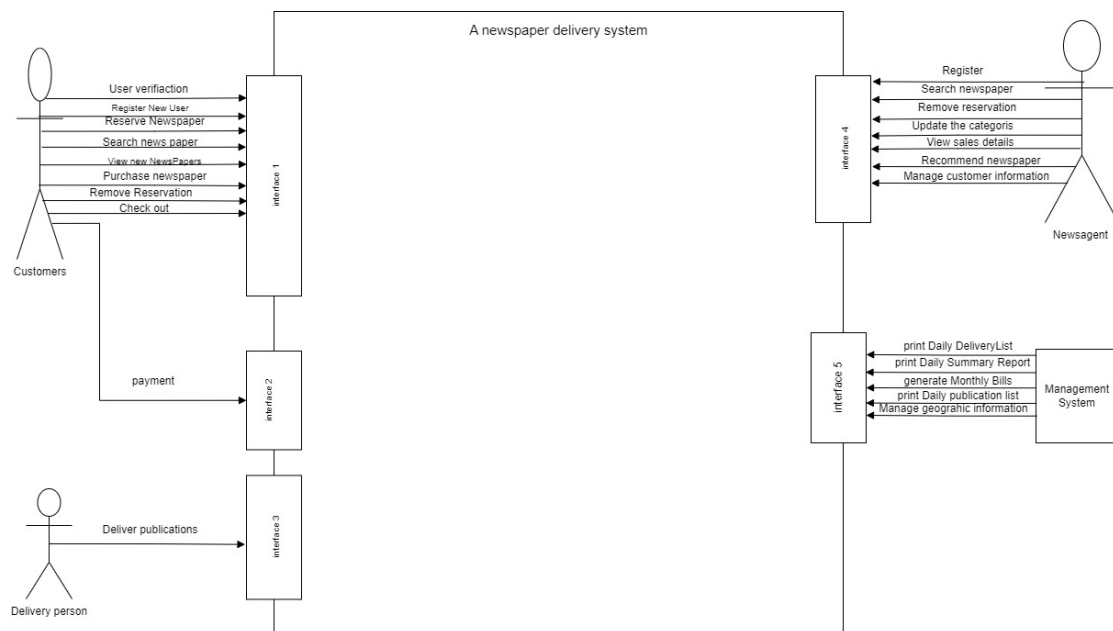
Ahmed Mohamed Elmohamady 21100821

Ahmed Mohamed Dawood 21100820

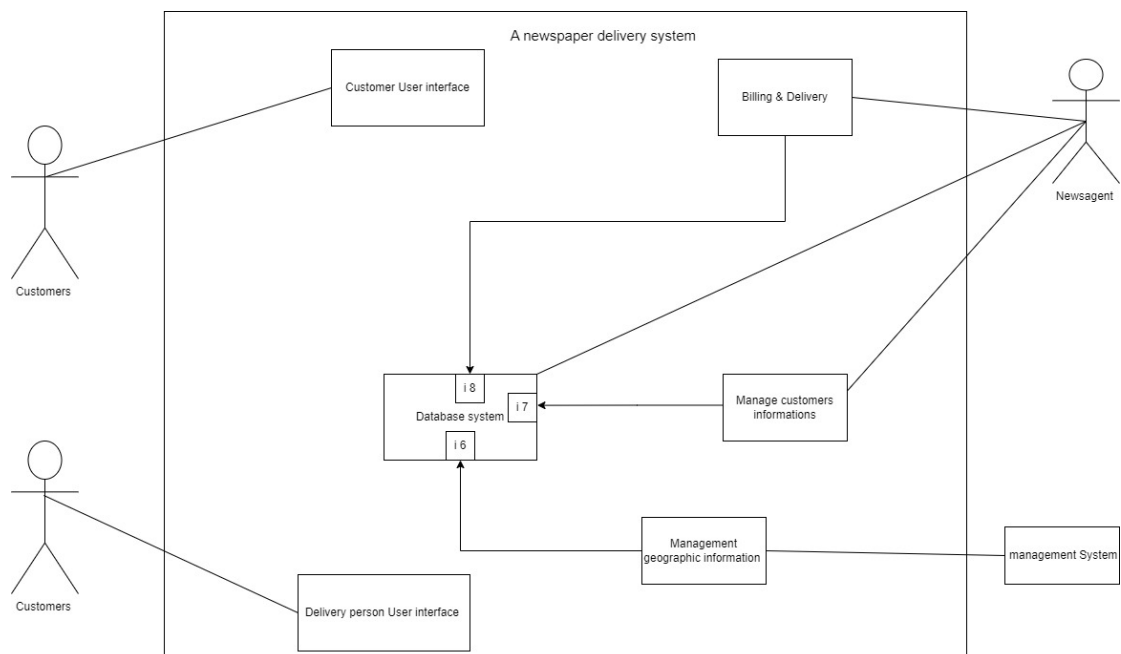
Mohamed Ahmed SaadAl i21100871

Q2:SA

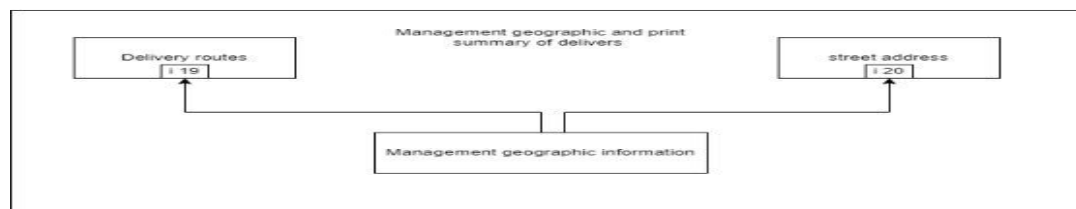
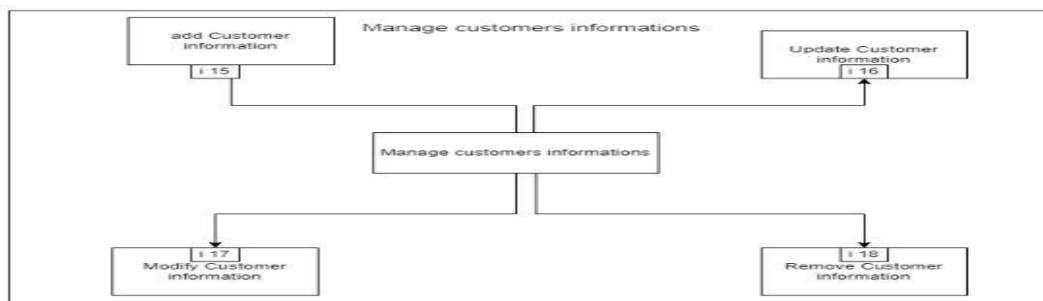
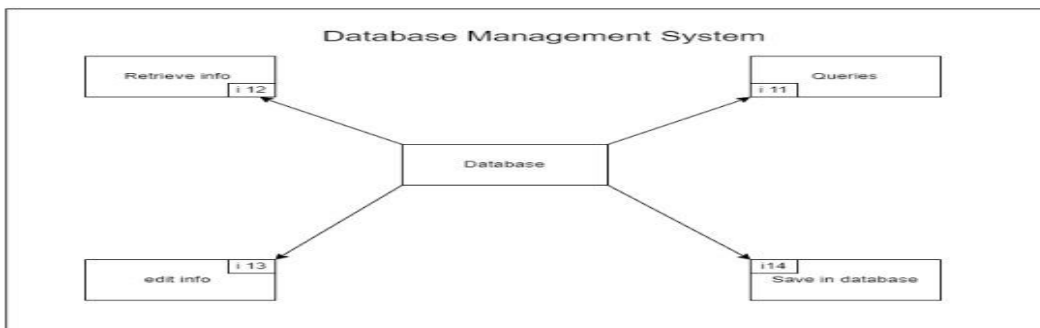
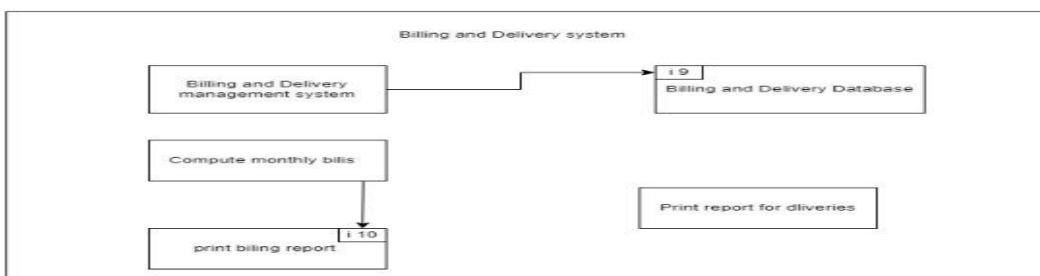
Level0 :



Level1:



Level 2:



Q3:

interface definitions:

Interface 1: library management interface

- Public Boolean search newspaper(string title,int idnewsp)
- Public Boolean check out(int price)
- Public Boolean remove Reservation (string Reservation)
- Public void purchase book(string newspdetails)
- Public Boolean Reserve book(string newspInfo)
- Public void Register new user(string information)
- public void view_newspaper(newspaper spec);
- public void verifyUser(String userID, String passWord);

Interface 2: payment interface

- public void payment_With_CreditCard ()
- public void validatePINNumber()
- public void paymentCash ()

interface 3: delivery management system

- public void print _info();
- public void compute_bills();

Interface 4: newsagent management system

- Public void Register (string information)
- Public Boolean search book (string title,int isbn)
- Public Boolean remove Reservation (string Reservation)
- Public void update categories (string books information)
- public data[] add _customer_info()
- public void delete _customer_info()
- public data[] modify _customer_info()

interface 5: management system

- public string address_info()
- public void print _dailydeliverylist();
- public void print _dailyreport();
- public void print _dailypublicationslist();
- public void generate_PaymentProcessfromDatabase(String paymentProcess)

interface 6: geographic management service

- public string address_info()

interface 7: manage customers' service

- public data[] add _customer_info()
- public void delete _customer_info()
- public data[] modify _customer_info();
- public void verifyUser(String userID, String passWord);

interface 8: billing and delivery service

- Public void retrieveTrackerInfo(String Tracker ID)
- public void saveTrackerInfo(String trackerName)
- public void compute_bills();
- public void print _dailydeliverylist();
- public void print _dailybillingreport();

interface 9: billing and delivery database

- public void saveTrackerInfoInDatabse(String TrackerName)
- Public void retrieveTrackerInfodatabase(String Tracker ID)
- public void savePaymentProcessInDatabase(String paymentProcess)
- public void compute_billsdatabase()
- public void print _dailydeliverylistdatabase ()
- public void print _dailybillingreportdatabase ()

interface 10: print billing interface

- public void print _billinginfo();

interface 11: queries Interface

- public void usersQueries(String userName)
- Public void QueryAboutTracker(String TrackerName)
- public void QueryAboutnewspaper(String newspaperName)
- public void costumerqueries(String coustmerinfo)

Interface 12: retrieve Informations

- public void retrieveUserInfo(String userEmail)
- public void retrieveTrackerInfo(String trackerID)
- public void RetrieveNewspaperInfo(String newspaperID)
- public void retrieveUserInfo(String userID)

Interface 13: Edit info

- public boolean editInfoSetName(String infoSetID, String newName);

interface 14: save in database

- public void saveInfo(info info);

interface 15: add costumer information

- public data[] add _customer_info()

interface 16: update costumer information

- public data[] update _customer_info()

interface 17: modfiy costumer information

- public data[] modfiy _customer_info()

interface 18: delete costumer information.

- public data [] delete _customer_info()

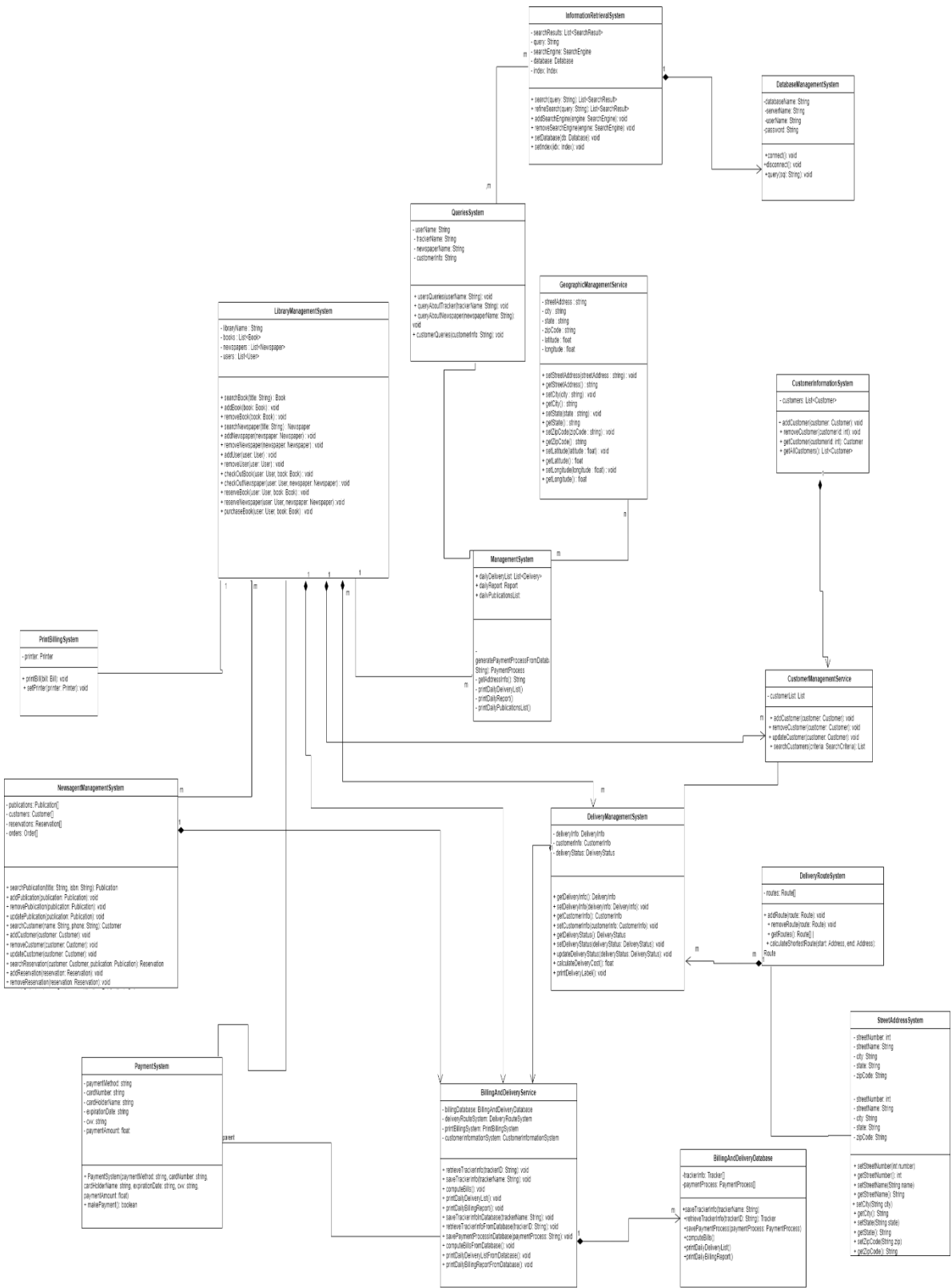
interface 19: delivery routes

- public data [] delivery_routesinfo()

interface 20: street address

- public data [] street_addressinfo()

Q4:



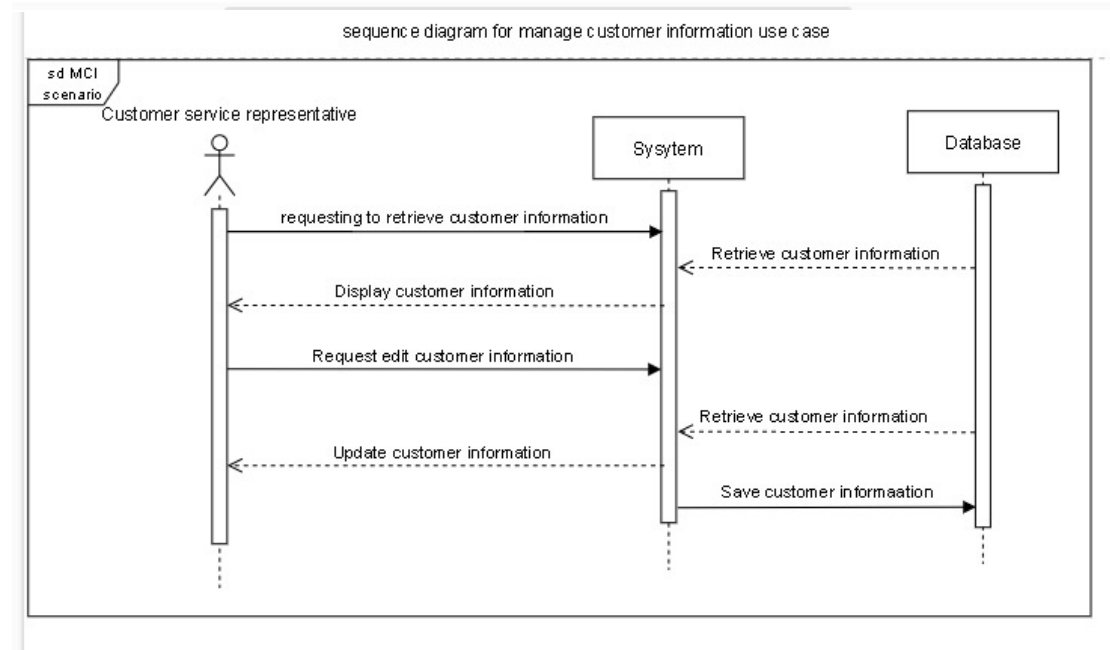
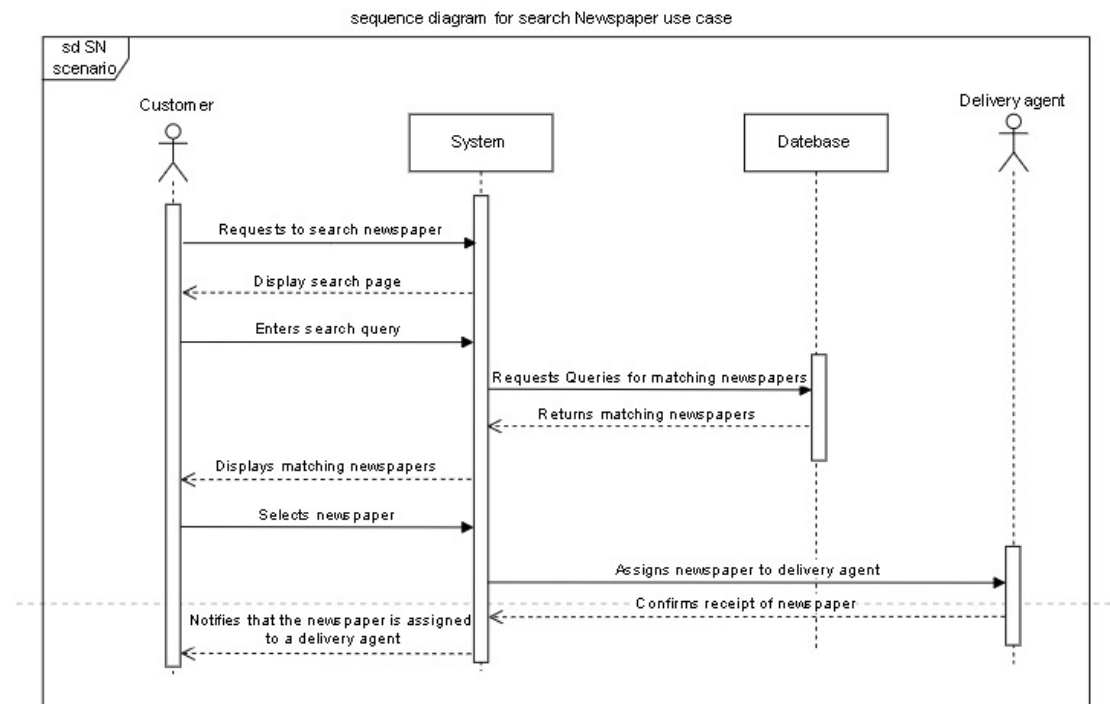
Q5:

Search for newspaper	checkout	Add newspaper	reservation	Print information
A	B	C	D	E
registration	Manage geographic info	Manage Customer information	Generate Daily Delivery List	Generate Daily Summary Reports
F	G	H	I12	J
Delivery Schedule System	Track Delivery Status	Assign Delivery Persons to Routes	Assign Publications to Customers	
K	L	M	N	

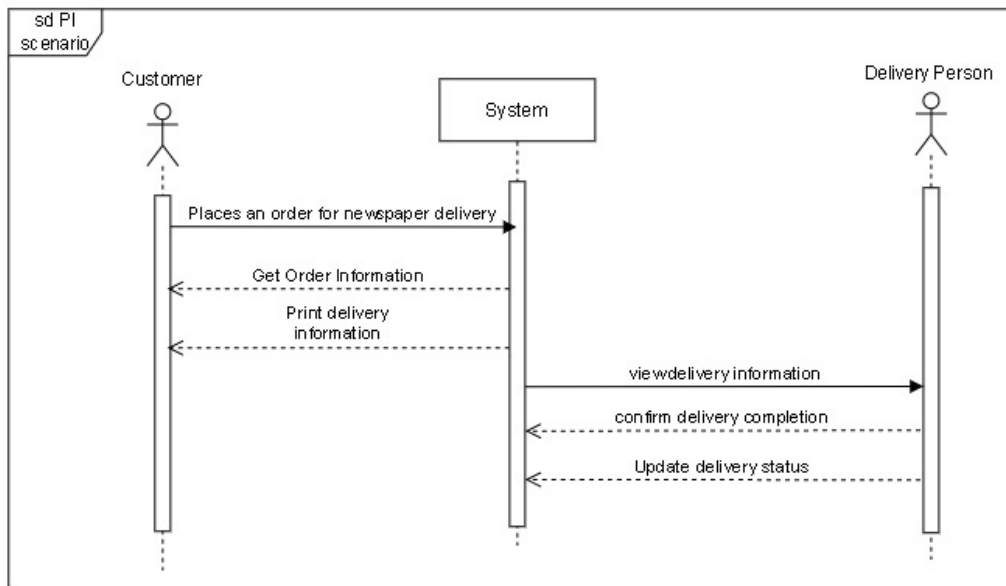
Q5 :

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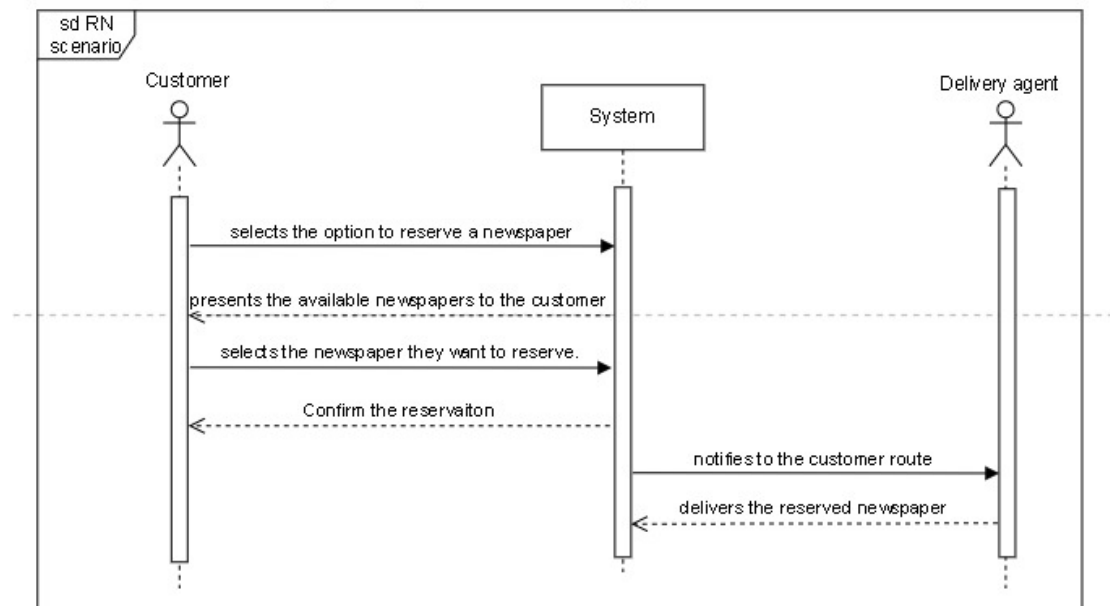
Q6:



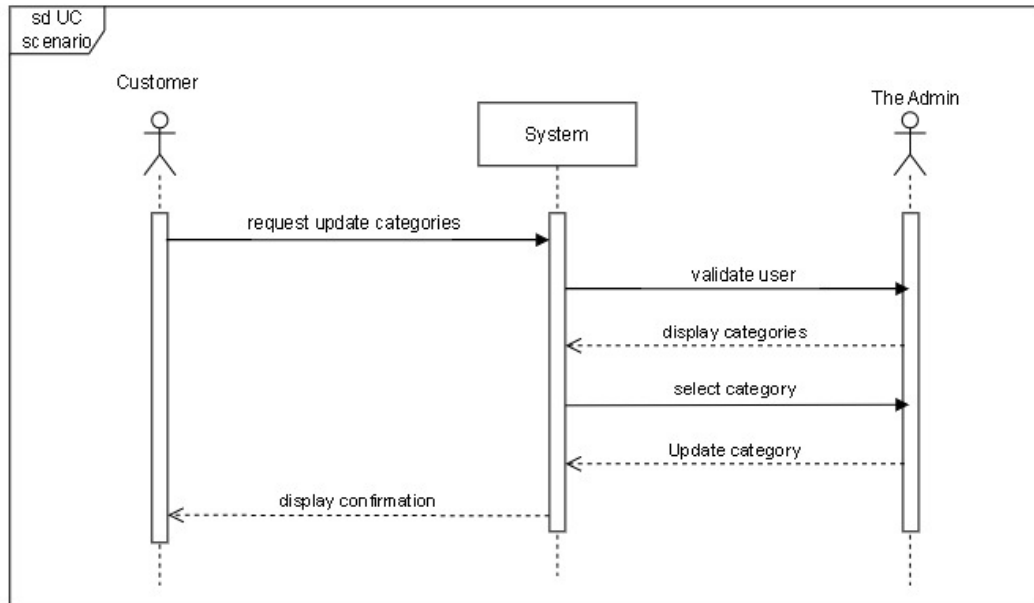
sequence diagram for the Print Information for Delivery Persons use case



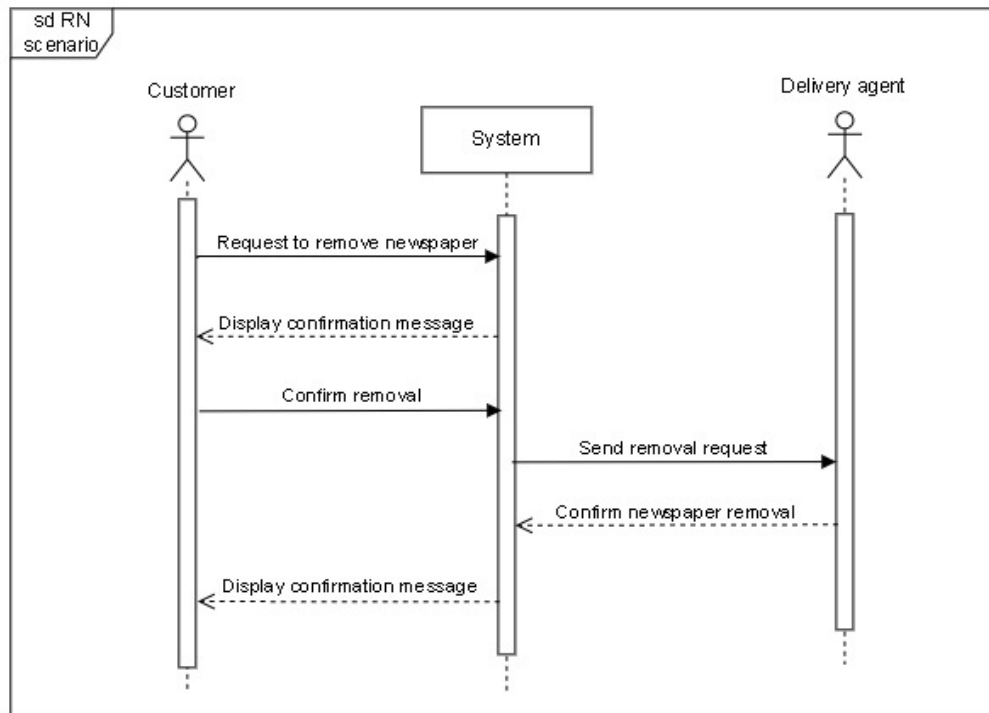
sequence diagram for Reserve Newspaper use case



sequence diagram for update categories use case



sequence diagram for remove Newspaper use case



Q7:

