Software Engineering Lab Cat
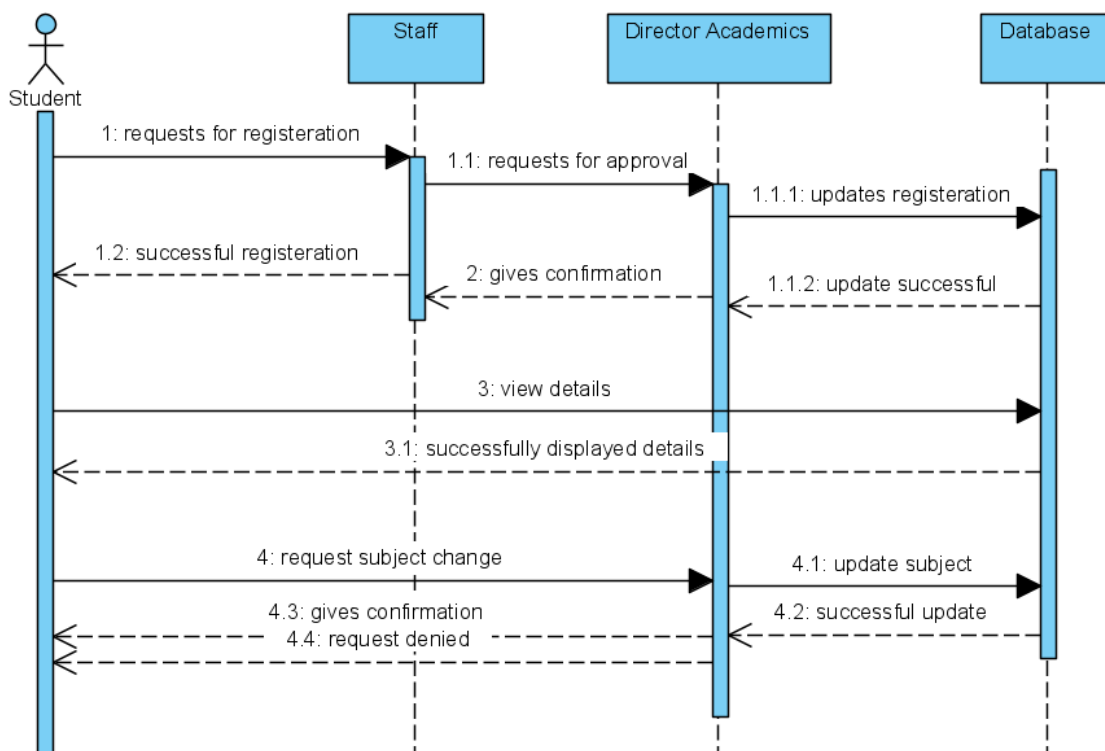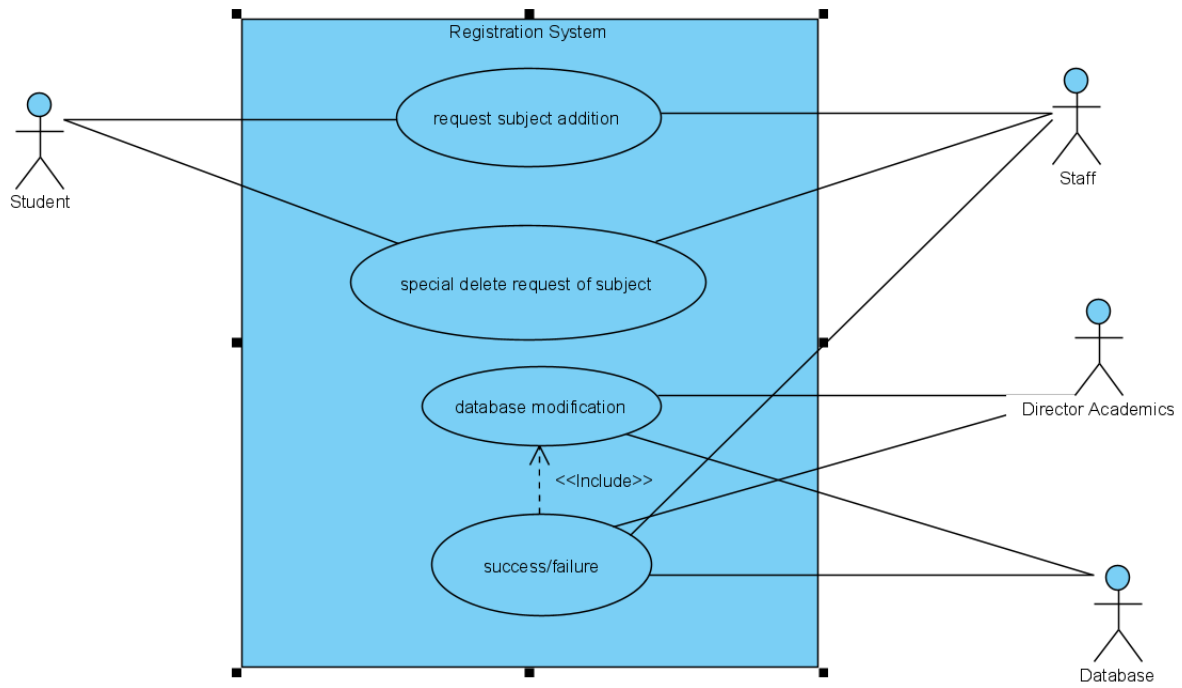
Name: Kulvir Singh
Registration Number: 19BCE2074

Question Set = 2

a)The actors in an online course Registration system are Student, Staff, Database and Director Academics. Identify the possible scenarios among these actors and model it and model it using a design tool of your choice.
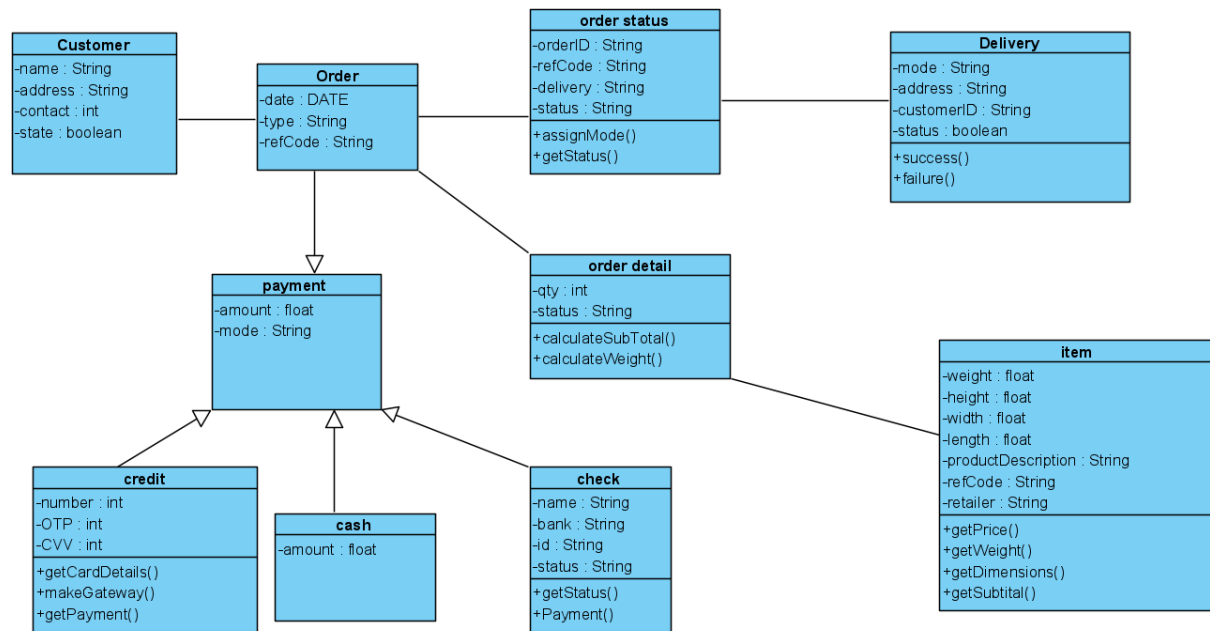
Sequence Diagram

Use Case Diagram

Registration System

request subject addition

special delete request of subject

database modification

<<Include>>

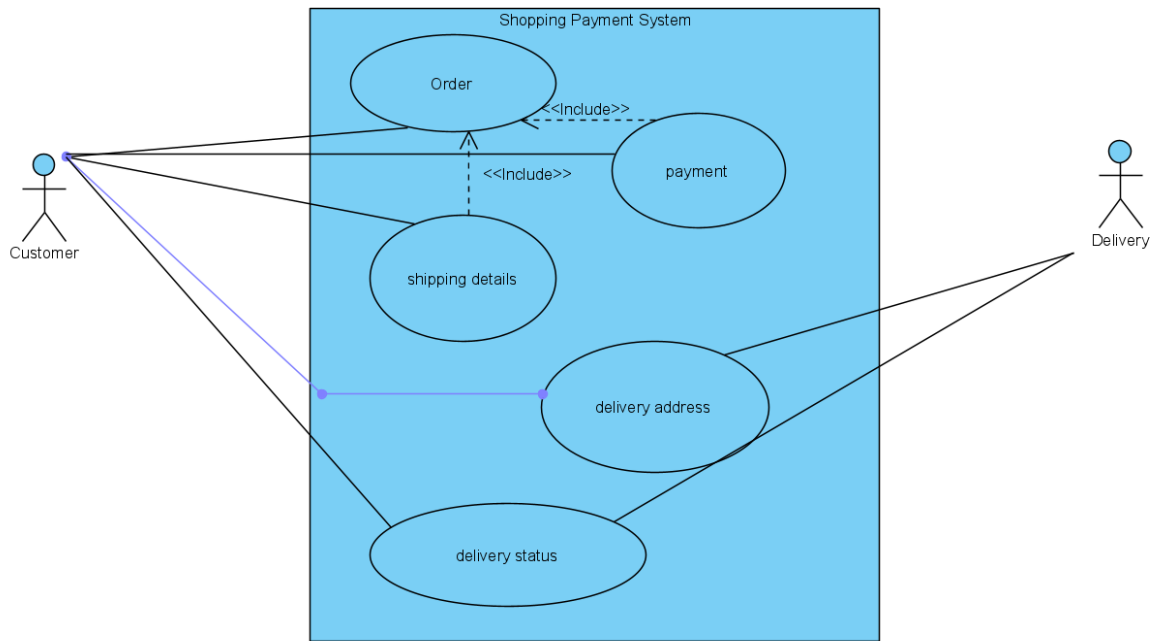success/failure

Student

Staff

Director Academics

Database

b) The Order is associated with a Customerwhen he purchases and makes a Payment. A Paymentis one of three kinds: Cash, Check, or Credit. The order contains OrderDetailseach with its associated Item. Design this scenario using appropriate model anddesign tool of your choice.

Class Diagram

Use Case Diagram

Shopping Payment System

Order

<<Include>>

payment

<<Include>>

shipping details

delivery address

delivery status

Customer

Delivery

c) Test Cases according to CUSTOMER PAYMENT (part b)

Test Case ID	Test Description	Expected Result	Actual Result	Pass/Fail
T01	Create new user account with email and password	User enters email and password and gets logged into his newly created account	New Account is created	Pass
T02	Login existing account with email and password correctly entered	User enters email and password and gets logged into his existing account	Login successful	Pass
T03	Faulty data in login that is wrong email and password	Error page opens and displays error message	Error page opened and error message displayed	Pass
T04	Faulty data in create new user that is invalid email etc.	Error page opens and displays error message	Error page opened and error message displayed	Pass
T05	Add items to cart while selecting/browsing through the webpage of online shopping platform	Items are added to the cart and total amount to be paid is displayed on the cart page	Items are added in orderly fashion and correct total displayed	Pass
T06	Proceed to checkout. The application takes user to the payment gateway for making payment of the items added to the cart	Correct total of all items in the cart along with delivery charges and taxes to be displayed with an option to choose type of payment.	Correct total displayed and payment option given.	Pass
T07	Payment option selection as cash on delivery	User gets confirmation message if cash on delivery is available or not. If available order is placed, if not control goes back to payment option	Cash on delivery available then order placed.	Pass
T08	Payment option selected as cheque or card	User gets a payment gateway which initiates transaction with bank on online portal and user is redirected to secure portal for entering details.	Payment portal of bank is opened and user can enter details	Pass
T09	Order status check. User can see status of delivery and order placed with other item/order details	A page displaying the order details and delivery status shows the accurate details as required.	Details are displayed	Pass
T10	Logout.	User can logout from the website	User logs out	Pass