

SWE 211 PROJECT

Requirement and design document

Section: 44170

Tutorial Instructor: T.Noura AlOmar

:Students List

Name	ID	Parts you worked on
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Project description

[Saudi Arabian Florist](#) is an online shop that sells flowers in Saudi Arabia. Using its website, customers can choose the flower bouquet they want and place orders. As any online shopping site, customers can search for products, add products to their shopping .carts and provide billing and shipping information

Assume that your group was working with the development team who builds this application/website and the group tasks are based on the early stages of developing the software (requirement definition and design phases). Therefore, your responsibility, as a team, is to analyze and design this application/website. The project manager has requested from your group to submit the document using the specified template by 30 :March 2017 which should contain the following

Requirement specification phase which contains the following:

- Functional user requirement (minimum 12 requirements) •
- Functional system requirement (minimum 6 requirements) •
- Non-functional external requirement (minimum 3 requirements) •
- Non-functional product requirement (minimum 3 requirements) •

System modeling section contains the following:

- Use-case •
- Use-case diagram (minimum 12 use-cases) o
- Use-case description (from the 12 use-cases choose minimum 6 Use- o
case description)
- Class diagram (including all the elements, e.g. methods and attributes) •
- Sequence diagram (from the 12 use-cases choose minimum 6 sequence •
diagrams)

Requirement specification .1

Functional user requirement: .1

- The system shall allow the user to choose standard flower bouquet/s. .1
- The system shall allow the user to add products to him/her shopping cart. .2
- The system shall provide pay service for a product. .3
- The system shall provide a shipping service. .4
- The system shall offer search service for products. .5
- The system shall provide different offers for the products. .6
- The system should provide statistics about best-selling flowers monthly. .7
- The system shall provide options for the user to let him/her customize their own bouquet/s. .8
- The system should give the option for the user to add a card with a message chosen by the user. .9
- The system shall provide an (add-ons) feature. Which has, balloons, chocolate, and cakes. .10
- The system shall support English and Arabic languages. .11
- The system should enable the user to view the flowers from different angles. .12
- The system shall allow the user to view the flower's description. .13

Functional system requirement: .2

- payment:** .2.1
- After the customer clicks on the checkout button the payment process must begin. First, the system should determine whether the customer's location is local or global. Then depending on his/her location the payment options will be displayed. If the customer was out of Saudi Arabia, then he/she will have one payment option which is payment by

(credit cards), but if he/she was in Saudi Arabia two more option will be added to the previous payment method, which are (SADAD) and (Cash on Delivery). After he/she chooses the payment method, a message will be displayed to confirm his/her order

:shipment 1.2.2

For the system to make the shipment process, the user needs to enter the following information: name, email and address. Then the system needs to decide the shipping duration time. If it will take a long time (more than 24 hours) the system shall send a message containing the order number to the shipment department, so that the flowers are delivered in a specific box to save them from wilting

:statistics 1.2.3

The system includes a service that sends a summary and statistics presented in different ways which are: pie chart, table and bar chart of the best-selling products in the last month. The product is considered best seller if it was purchased more than 25 times monthly

customize:

After the user clicks on customize button then the system shall enable the user to customize his/her own flower bouquet, first by choosing whether he/she wants a vase or wrapped bouquet, depending on what he/she choses then two options will appear to customize the type and color of the bouquet. After that he/she will choose the number of flowers, type/s and color/s. Then the system adds the bouquet to the shopping cart

add-ons:

when the user clicks on the add-on feature he/she will be asked if the shipment will be delivered in Saudi Arabia, if the shipment is out of Saudi Arabia only two add-ons will appear (chocolate/s, cake/s) otherwise three add-ons will appear (chocolate/s, cake/s and balloon/s). After the user chooses the add-on item the system adds it to the current order

search:

Once the user clicks on the search button he/she will be able to search for standard flower bouquets or single flowers. After choosing the product type, filter options will appear that includes searching by price (highest or lowest), type and color

Non-functional external requirement:

According to the ministry of commerce and investment in Saudi Arabia, the system shall provide a receipt that includes the total price of the order and specify the price for each product or service.

According to the ministry of commerce and investment in Saudi Arabia, the system should provide an option for the user to contact the system's communication team.

The system shall include allergy information for each type of flower.

Non-functional product requirement:

The system should provide and display help frames (messages) to the user.

The system should guarantee the privacy of the user's information, by not

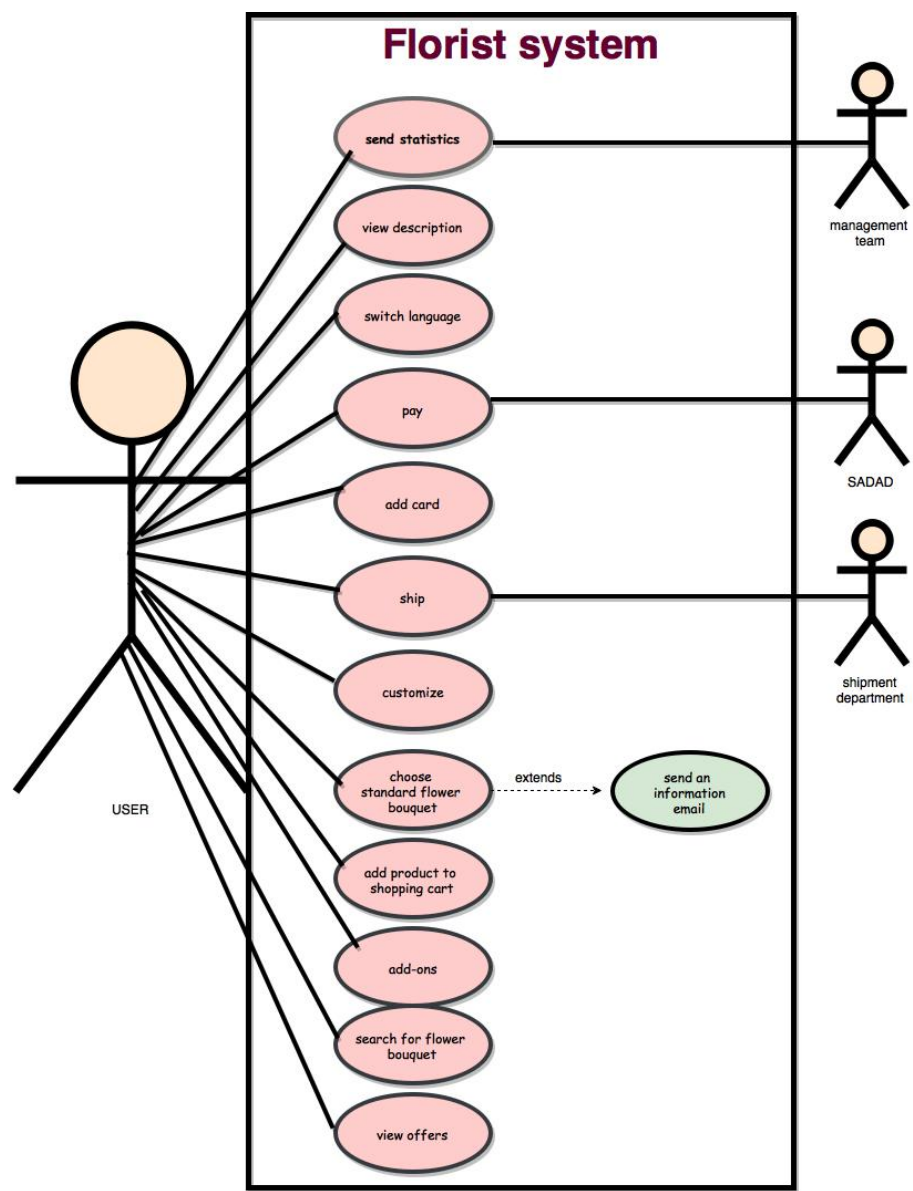
sharing the information to anyone apart from the florist system staff and the user him/herself.

The system should be reliable by making sure to deliver the same order. .2.3

System Modeling .2

Use-case .2.1

Use-case diagram .2.1.1



Use-case description .2.1.2

Florist: Search	
Actors	User

Description	The user can search about a specific bouquet that he/she wants. He/she can search by price, weather from low to high or from high to low. Also, he/she can search by the type of flowers and their colors.
Precondition	none
Stimulus	Command issued by the user after clicking on search button.
Response	a page will be displayed containing bouquets pictures depending on the search choice.
Flow of events	<ol style="list-style-type: none"> 1) the user opens the website. 2) user click on the search button. 3) the system requires the user to choose one option to search about the bouquet that he want, which are: search by price, search by type or search by color. 4) if the user chooses search by price, then two options will appear: <ul style="list-style-type: none"> • search from low to high. • search from high to low. 5) the system will display the searching results.
Post condition	the search has been done successfully.
Comments/assumptions	none.

Florist: Customize	
Actors	User
Description	<ul style="list-style-type: none"> • the user can customize his/her own bouquet instead of a standard bouquet. • he/she can choose the type, color, amount and either the bouquet to be wrapped or in a vase.
Precondition	none
Stimulus	Command issued by the user.
Response	a bouquet has been customized and added to his/her shopping cart.

Flow of events	<ol style="list-style-type: none"> 1) the user opens the website 2) the user signs in or signs up. 3) the user clicks on customize button. 4) inform the user to choose either wrapped bouquet or in a vase. 5) inform the user to choose the type of the flowers in the bouquet. 6) inform the user to choose the color of the flowers. 7) inform the user to choose the amount of the flowers. 8) the system will add this customization to the user's shopping cart.
Post condition	the product after customization has been successfully added to his/her shopping cart.
Comments/assumptions	none

Florist: add-ons	
Actors	User
Description	A user may request to add-on his/her bouquet order. The user must make an order before he/she chooses an add-on from the order options. After that the system will display a list of countries, the user must choose the country that he/she wants to send the bouquet to. If the country is not Saudi Arabia, then he/she can only choose to add chocolate or/and cake. Otherwise he/she can choose chocolate, cake or/and balloons.
Precondition	<ul style="list-style-type: none"> • there exists an order to add on it. • The country that the bouquet will be send to is entered.
Stimulus	Command issued by the user.
Response	Chocolate, cake or/and balloons added to the order.
Flow of events	<ol style="list-style-type: none"> 1) User enters the website. 2) the system requests the user to sign in or sign up. 3) User clicks on make an order. 4) User chooses the product he/she wants. 5) System provides add-ons option to the user. 6) User chooses the add-on. 7) System lists countries and ask the user to select the country he wishes to send the bouquet to. 8) If the country is Saudi Arabia, the system provides the add-ons options: chocolates, cakes and balloons. If the country is not Saudi Arabia the system provides the add-ons options: chocolates and cakes only. 9) User specifies his/her add-ons choice/s. 10) the System adds the add-ons to the user's order.
Post condition	Add-ons selection/s has been added successfully to the order.

Comments/assumptions	The user's information must be entered. The system must check the country the user chose to send the bouquet to and display the add-ons options depending on it.
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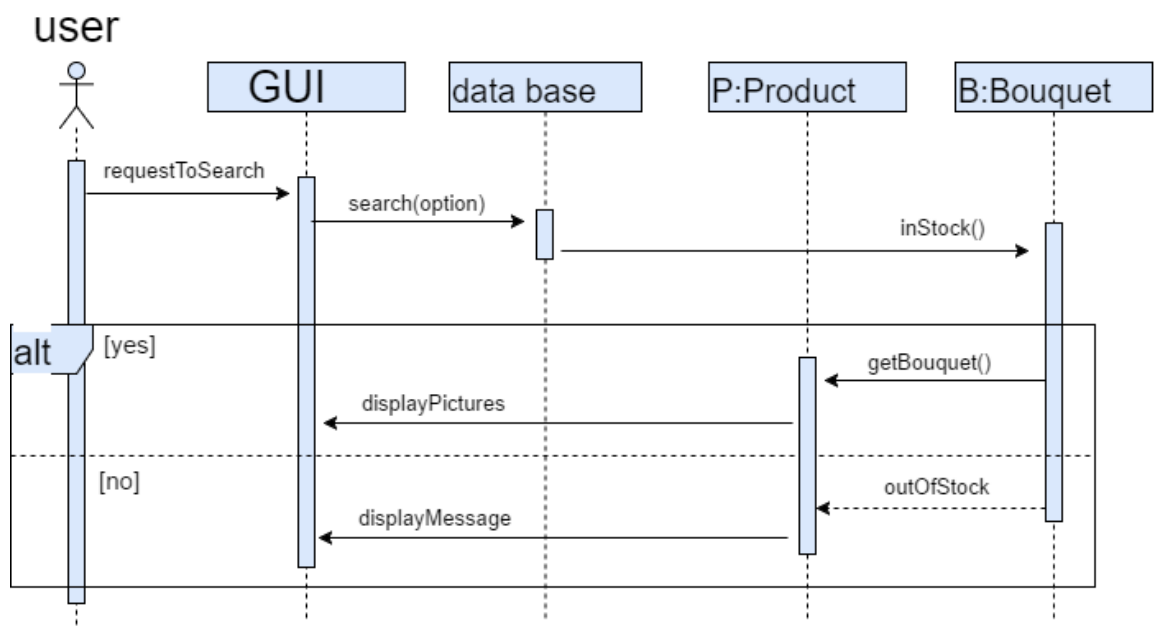
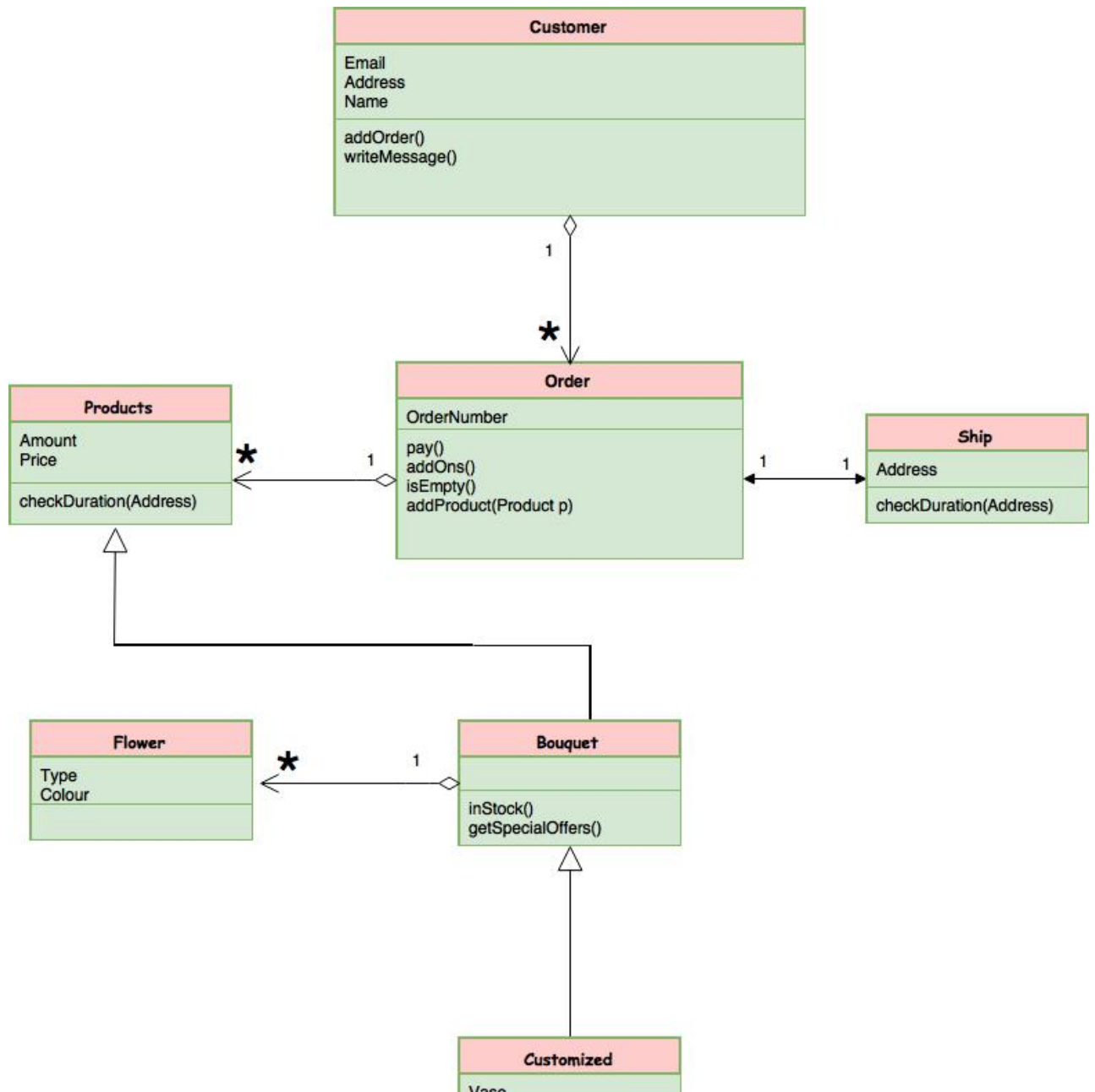
Florist: add product to shopping cart	
Actors	User
Description	the user can add a product to his/her shopping cart. First, he/she needs to make an order. then the system will let him/her choose whether he/she wants to add a standard bouquet or a customized bouquet. After that he/she can chooses an add-on to his/her product.
Precondition	there must be an order to add it to the shopping cart.
Stimulus	command issued by user.
Response	a message will appear if the product is added successfully or not.
Flow of events	<ol style="list-style-type: none"> 1) the user opens the website 2) the system requests the user to sign in/ sign up. 3) the user makes an order. 4) the user clicks the (add a product) button. 5) the user chooses the product (standard or customized). 6) the system checks whether the product is available or not. 7) If the product is available, then the system adds the product to the shopping cart.
Post condition	the product has been successfully added to the shopping cart.
Comments/assumptions	the user must make an order first so he/she can add a product to the shopping cart.

Florist: Pay	
Actors	User and SADAD system
Description	User request to checkout after shopping in the website. then the payment process will start by adding the billing address and then choosing the payment method.
Precondition	The user should have a shopping cart with a product or many products.
Stimulus	Command issued by the user after clicking on checkout button.
Response	<ul style="list-style-type: none"> • Payment is completed and the system should start in the shipping process. • an email is sent to the user containing the order details and shipping information
Flow of events	<ol style="list-style-type: none"> 1) the user opens the website 2) the user sign in/sign up. 3) the user adds a product to the shopping cart. 4) The user clicks on checkout button 5) The user adds the billing address. 6) The system should determine the user's location. 7) payment options will be displayed. If the customer was out of Saudi Arabia, then he/she will have one payment option which is payment by (credit cards). But if he/she was in Saudi Arabia two more option will be added to the previous payment method, which are (SADAD) and (Cash on Delivery). 8) After he chooses the payment method, a message will be displayed to confirm his/her order. 9) After confirmation, the payment process is completed.
Post condition	<ul style="list-style-type: none"> • a receipt is sent to the customer. • The payment was successfully made.
Comments/assumptions	The system must make sure that the bank successfully authorized the payment if it was payment by card.

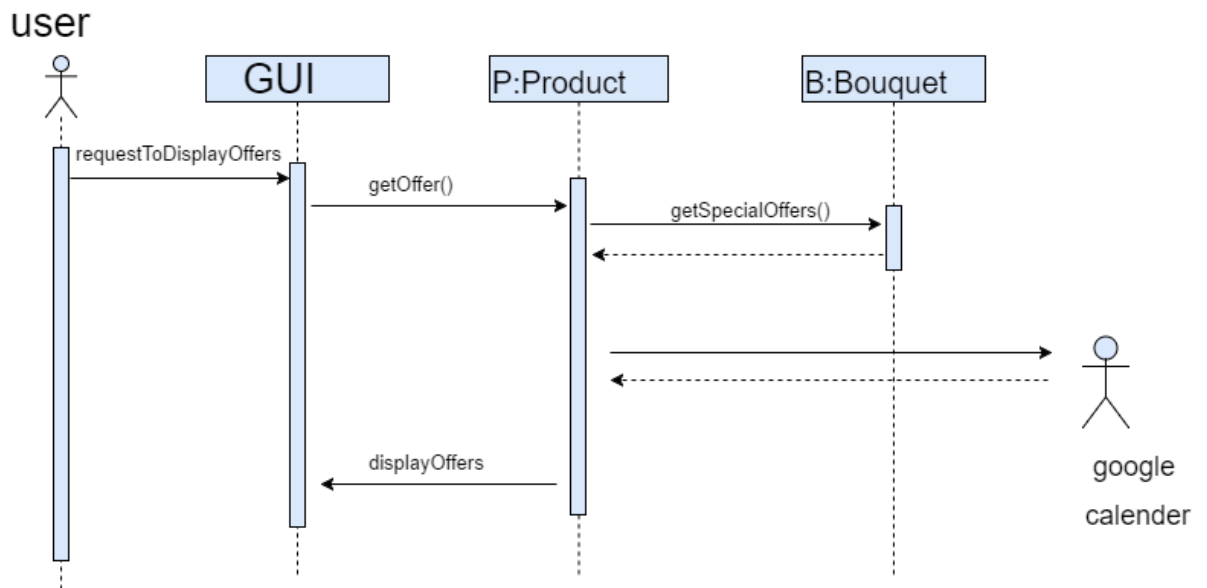
Florist: View description	
Actors	User

Description	When the user clicks on the flower, a brief description will appear including allergy information. To help the user to know more about what he/she is buying.
Precondition	The user should search for the flower he/she wants, and select it.
Stimulus	Command issued by user.
Response	The flower's description including allergy information is displayed.
Flow of events	<ol style="list-style-type: none"> 1) The user opens the website. 2) The user clicks on a flower. 3) a brief description about the flower is displayed, including allergy information.
Post condition	The brief description has been successfully displayed.
Comments/assumptions	The brief description will be based on the flower that the user has chosen.

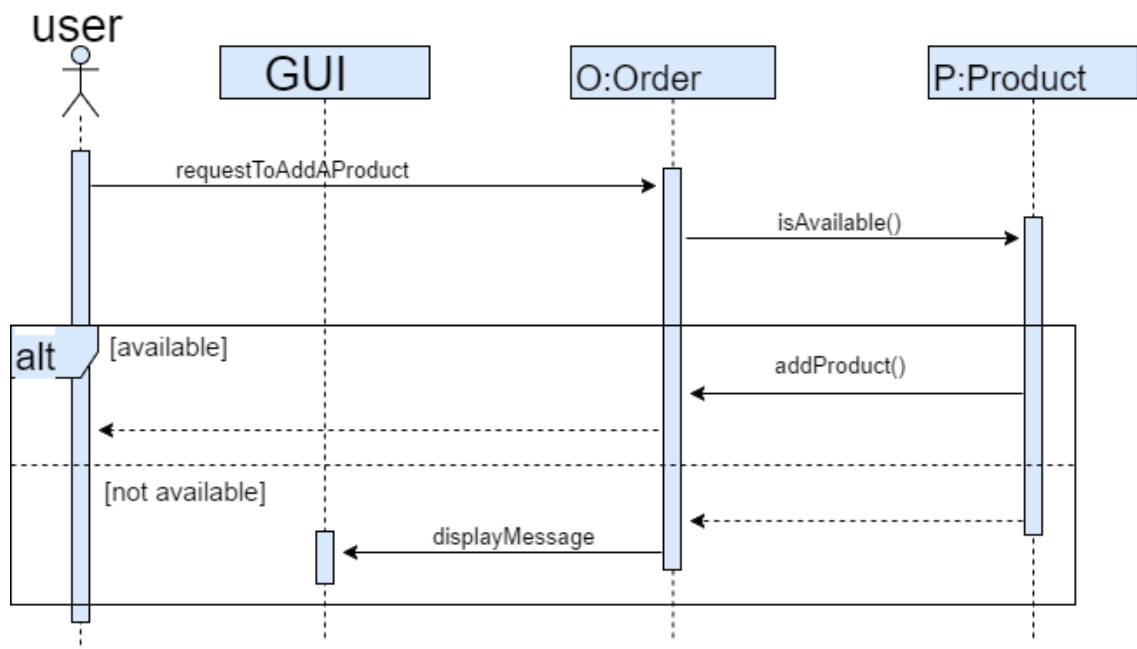
2.2 Class diagram



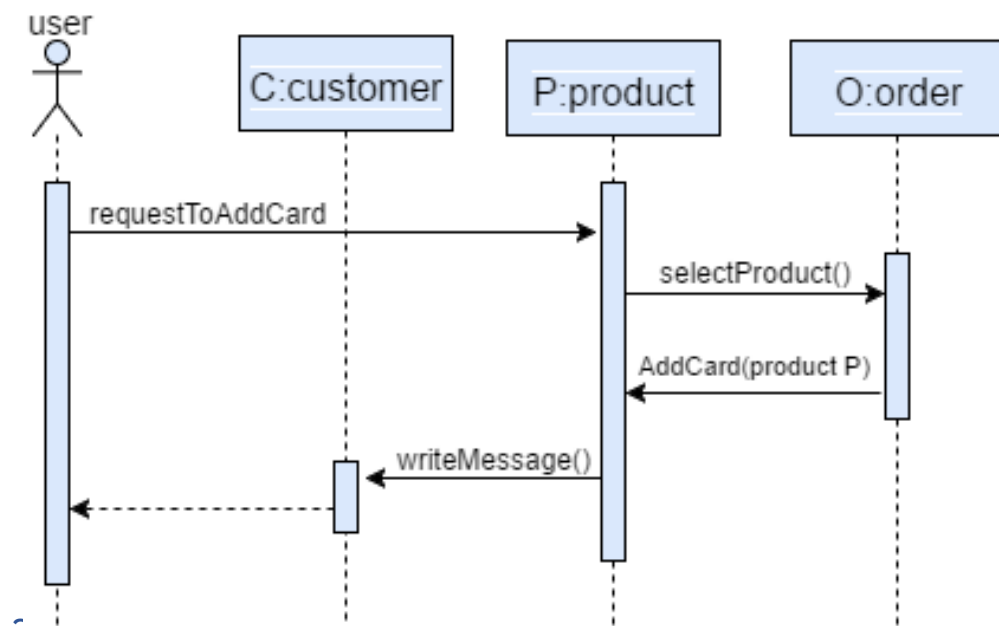
:2.3.2 offers



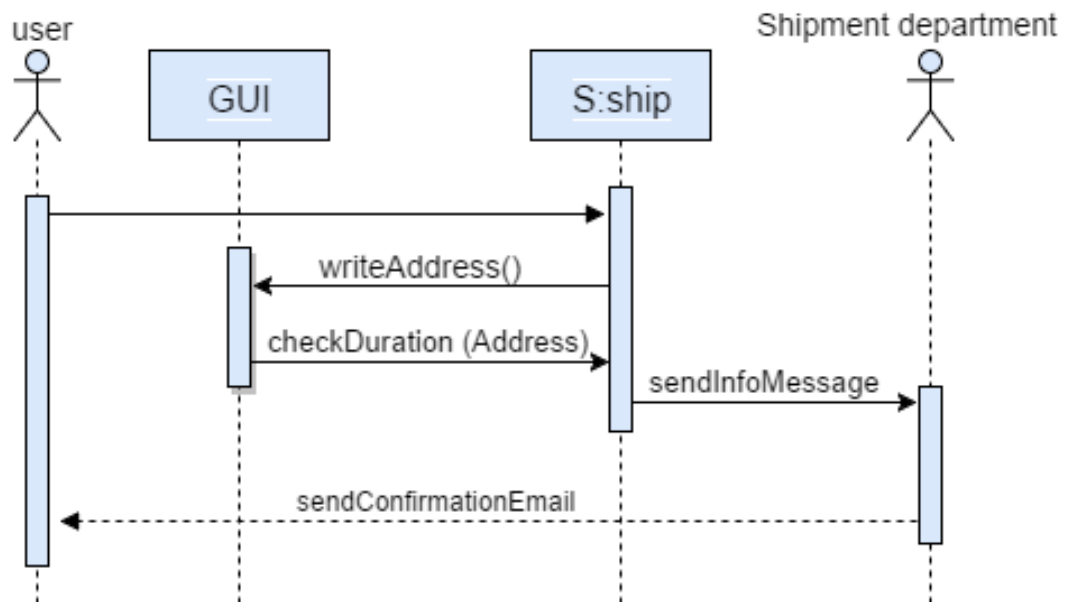
2.3.3 adding a product to the shopping cart:



2.3.4 adding a card:



2.3.5 shipping.



2.3.6 add-ons:

