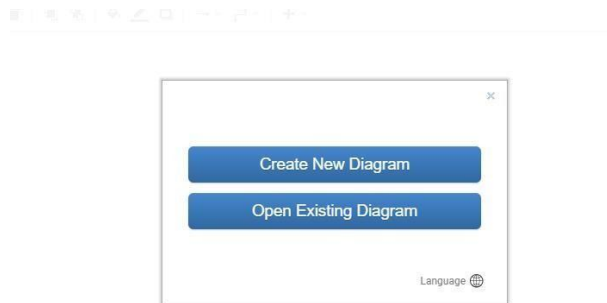


In this Lab we will draw Use Case diagrams by identifying Use Cases, Actors and Relationships appropriately to model the given case studies.

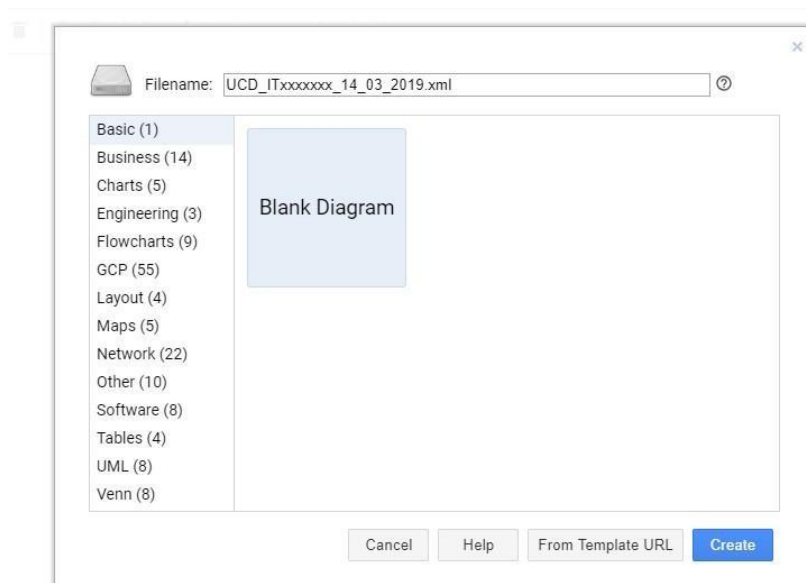
We will be using Draw.io software (which can be accessed through <https://www.draw.io/>).

Instructions for using Draw.io:

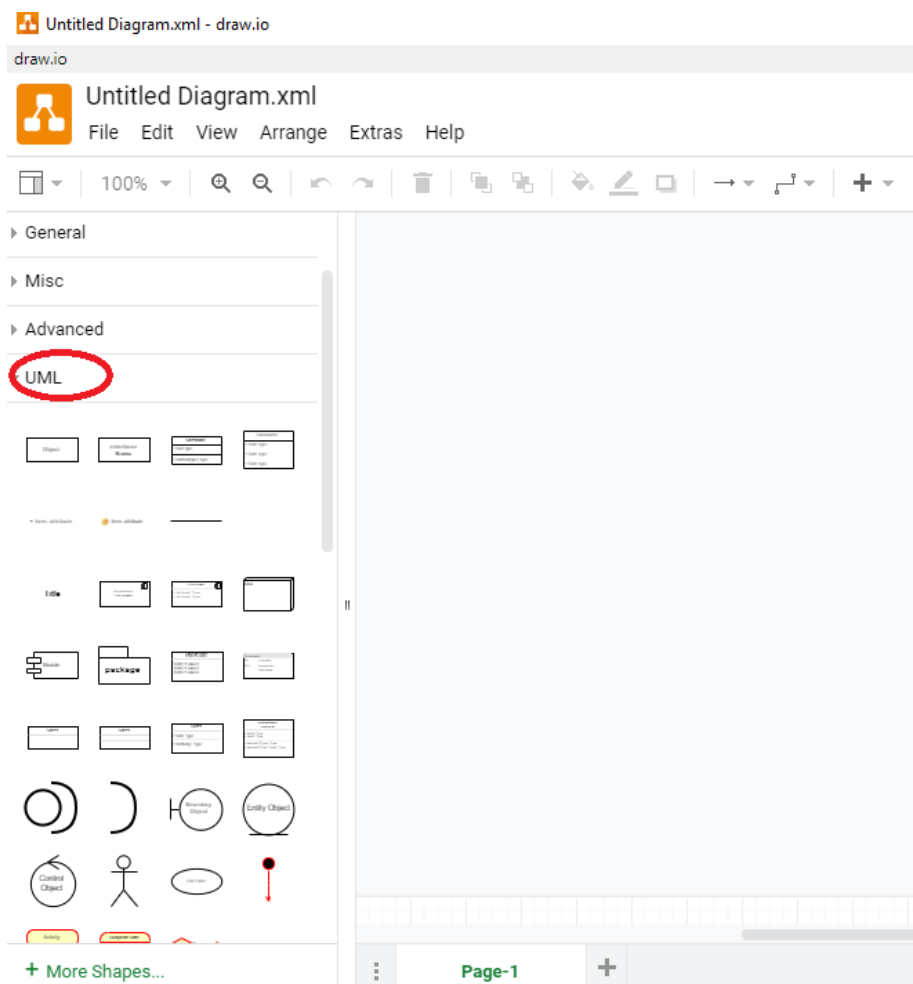
- Go to the provided link
- New window will appear, and select “create new diagram”



- Give a file name and select “Basic → Blank Diagram” and then click on “Create”. (For this lab, use the format given below for the file name)
File name format – UCD_ITxxxxxxx_DD_MM_YYYY



- Select “UML” category from left side bar.
- Click on suitable notations to draw the use case diagram



Exercise 2: Draw the Use Case Diagram using draw.io for the ‘TasteBuds Catering System’

“TasteBuds (TB)” is a new restaurant at Malabe. TB is in need of a system to track the customers and their orders. You as a System Analyst is asked to come up with the design models for TasteBuds Catering System (TBCS).

A customer can place orders through TBCS. If the customer is a registered customer, he will be given a discount from the total bill amount depending on how many orders he has placed during the month. The orders placed will be given a number which indicates the queue position of that order. The current serving order number will be displayed on the system main page.

The order numbers together with the order details will be sent to the Head Chef (HC) to prepare the order. Based on the details, HC will prepare the order as a normal order or a priority order. The HC will assign one or few chefs for the order and will estimate the time taken for the order.

Once the order is prepared, the order will be delivered by the delivery staff. The Delivery manager will assign the delivery staff for a particular order considering its category. For example a priority order will be assigned a vehicle and a driver within 10 minutes of the time the order is ready, while the normal order delivery is assigned based on the availability of the vehicles and drivers.

To be a driver at TB, one needs to have a valid driving license. The driving license details will be stored in the TBCS for security purposes. When a delivery is handed over to the driver, he has to use the TBCS on his mobile phone and check out the delivery with the order number and his driving license number.

Once the delivery is handed over to the customer, s/he can mark the order has been delivered through the TBCS system. Later, the customer can give a rating to the order and also give his comments or suggestions if s/he is not satisfied with the order.

Use case Scenarios

There are several online and other softwares available, to write the use case scenarios. “Visual Paradigm” software is one of them. Below screenshots are taken from the software and you can try writing use case scenarios using similar software.

take a physical examination

Info

Use Case Notes

Flow of Events

Details

Requirements

Diagrams

Test Plan

References

Description

Rank: Unspecified

ID: UC-2

Status: Identify Next

Justification:

Primary Actors: Prospective Student ...

Supporting Actors: ...

Task Pool: Link to...

Description:

☐ Abstract
 ☐ Leaf
 ☐ Root

Basic information of use case

Info

Use Case Notes

Flow of Events

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Diagrams

Test Plan

References

Description

Scenario

1.Fill in physical examination form

1.1.Download the physical...

1. Fill in physical examination form

1.1. Download the physical examination form from the student visa website

1.1.1. Double check filled information

1.1.2. Make a cheque for medical fee

2. Call a physician to reserve an appointment

3. Arrive at the clinic at the scheduled time

4. Follow the instruction of physician and X-ray physician

4.1. Perform general physical examination

4.2. Perform detailed physical examination

4.3. Perform urine test

4.4. Perform X-ray check

Extension:

3.a. For those who are late for physical examination

1. Reschedule appointment with the physician

2. Make an appointment with another physician

<Type here to add an extension without any parent>

Flow of events of use case

Exercise 3:

- a) Write the use case scenario for the “login “function.
- b) Write the use case scenario for the “Search a book “function.
- c) Write the use case scenario for the “Reserve a book “function.

Hint: Use the “login” and “Search a book” scenarios you have written earlier.

Optional

Exercise 3: The scenario given below describes a hairdresser system. By going through the description, draw a use case diagram for the system at Cool Cuts Saloon.

Jacky rings the hairdressers of Cool Cuts for an appointment for a haircut. Bianca, one of the trainees, asks her who normally cuts her hair. Jacky says Priyantha or Ruki. Bianca asks when she would like to come. Jacky says Saturday. Bianca says that Ruki has a free slot on Saturday at 1.15pm. Jacky says that would be fine.

Ravi rings Cool Cuts for an appointment for a haircut. Mandy, the receptionist, asks him who normally cuts his hair. Ravi says he hasn't been before. Mandy asks when he would like to come. Ravi says Thursday afternoon. Mandy says Diana has a free slot at 5.00pm on Thursday. Ravi says that would be fine.

Amanda rings Cool Cuts for an appointment to have a haircut and her hair colored. Michael, the manager, asks her who normally colors her hair. Amanda says she would like Diana to color her hair and Heshani to cut her hair. Michael says he can't find a time when both are free until three weeks on Monday at 10.25am. Amanda says she will take that slot.

Michael, the manager of Cool Cuts, takes on a new haircutter called Shan. Shan's day off will be Tuesday. Michael enters these details into the computer system. Michael normally enters the details of the employees. Even though Michael has full access to the system, the receptionist is mainly responsible for taking payments. He also allows Mandy to handle the inventory in his absence. After her cut and blow dry Jacky comes to the reception desk to pay. Mandy says that she has to pay Rs.1000 by calculating the payment amount. The customer pays the amount due. Mandy registers the amount paid on the system.

When new stocks of hair dressing products are delivered to the saloon, Mandy notices that the prices of several items have increased; she updates the prices of the relevant items on the system. She also updates the stock levels for those items that have been delivered. When customers come to the reception to pay for their haircut, they sometimes buy hairdressing products shampoo, conditioner etc. The receptionist enters the product code and the system looks up the price of the product. If the product id is invalid system displays an error message along with a request to enter the correct product key. While receptionist entering the products to the system she can cancel some items according to customer request or if the stock is not available. Once all the items are entered to the system, receptionist informs the total amount to the customer and he makes the payment. Finally system prints an invoice for the purchased service.

