

LAB 05 : Use case 3

Student NameSahachan Tippimwong..... Student.....622115039.....

Your submission must be in PDF format !!!!!

1. Given the following system description.

Whenever new **patients** are seen for the **first time**, they complete a **patient information form** that asks their name, address, phone number, and brief medical history, which are stored in the **patient** database. The system shall **check the phone number** with the database for duplication. If there is no duplication, the system shall **store** the information in the database. Otherwise, the system shall **display message** "Sorry, the information is already existed in the database". When a **patient** calls to schedule a new appointment or change an existing appointment, the **receptionist** checks the appointment file for an available time. Once a good time is found for the **patient**, the appointment is scheduled. If the **patient** is a new **patient**, an incomplete entry is made in the **patient's** file; the full information will be collected when the **patient** arrives for the appointment. Because appointments are often made far in advance, the **receptionist** usually **mails a reminder** postcard to each **patient** two weeks before the appointment.

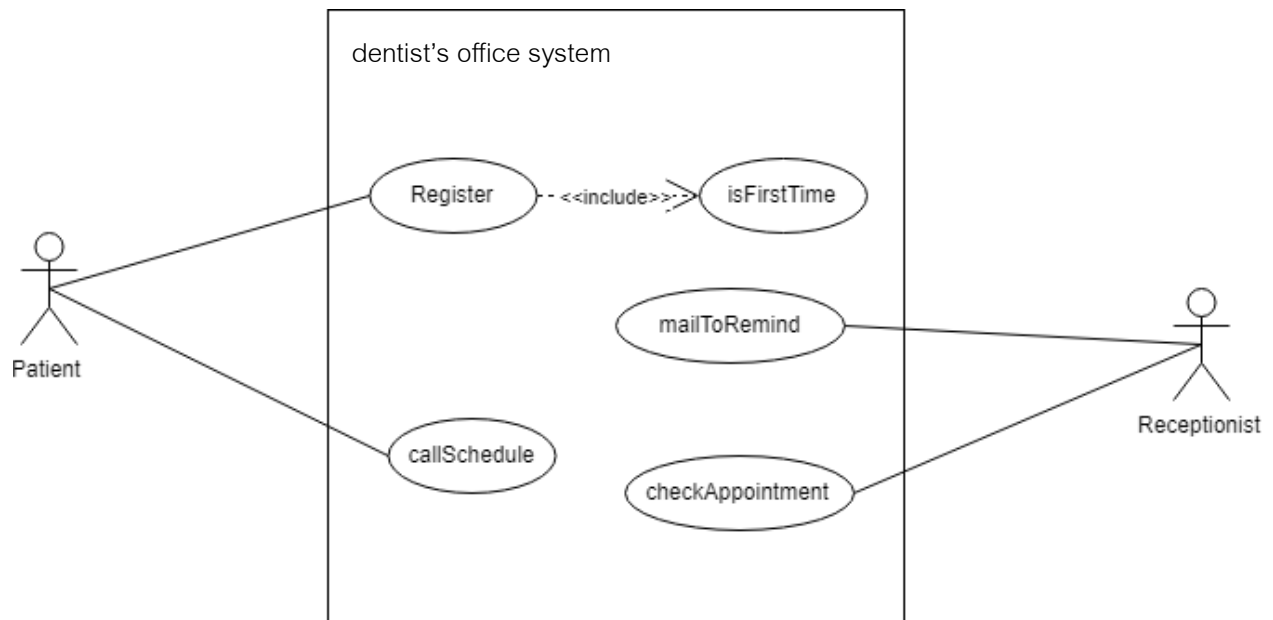
1.1 What is the actor?

.....Patients, Receptionist,

1.2 What is the use case?

.....register, IsFirstTime, callSchedule ,checkAppointment, MailAreReminder

1.3 Draw the use case diagram.



_____ (Signature)

1.4 Create a set of detail use-case descriptions for user registration use-case the dentist's office system

| | | | |
|------------------------------|--|---|--|
| Use Case ID | UC01 | | |
| Use Case Name | register | | |
| Created By | Sahachan Tippimwong | Last Update By | Sahachan Tippimwong |
| Date Created | 6/1/2021 | Last Revision Date | 6/1/2021 |
| Actors | Patient | | |
| Description | Actor will use this use case to register to dentist's office system | | |
| Trigger | Actors register in office themselves | | |
| Preconditions | | | |
| Use Case Input Specification | | | |
| Input | type | Constraint | Example |
| name, | String | This value is a combination of English alphabet | Sahachan |
| address, | String | This value need to be this format house number. Valley name. City. Provide. Postcode | 27 ThaKhunRam Kamphaengphet Kamphaengphet |
| Phone number, | String | This value is a combination of number | 0836306462 |
| Medical history, | String | This value contains only a 5 – 15 word | Handsome last 20 year |
| Post conditions | If register is successful patient information will store in office database | | |
| Normal Flows | User | System | |
| | 1Patient input name, address, Phone number Medical history | 2.System will check if there are a duplication of Phone number in database [A1: Database has same phone number of patients] | |
| Alternative Flow | A1: Database has same phone number of patients 1. System display a message “Sorry, the information is already existed in the database” 2. Use case ends | | |
| Exception Flow | | | |
| Assumption | Actor must be in dentist office | | |

3. Given the following online university registration system description.

The system should enable the staff of each academic department to examine the courses offered by their department, add and remove courses, and change the information about them, i.e., name of the course, number of credit, course description, studying room, and the maximum number of students permitted. When the staff changes the information, the system shall validate the information for format. If the information is valid, it will store in the database. Otherwise, it has to be input again. It should permit students to examine currently available courses, add and drop courses to and from their schedules, and examine the courses for which they are enrolled. If the student adds the course that he/she is already enrolled and receives the grade higher than C+, the system will display message "Warning!!! You cannot enroll this course". If his/her grade of the enrolled courses is less than C+, the system shall display "You must do better!!". Department staff should be able to print a variety of reports about the courses and the students enrolled in them. The system should ensure that no student takes too many courses (20 credits) and that students who have any unpaid fees are not permitted to register (assume that fees data are maintained by the university's financial office, which the registration system accesses but does not change)

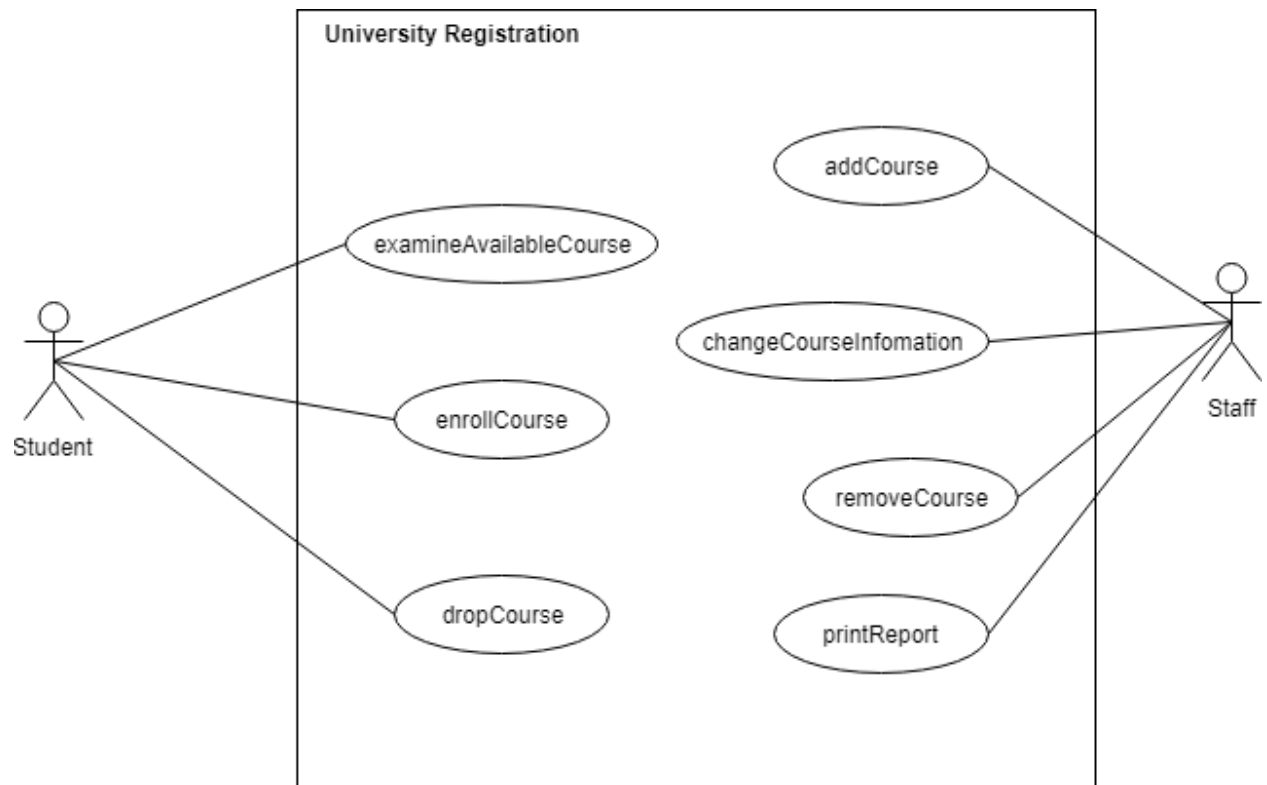
3.1 What is the actor?

.....Department Staff, Student

3.2 What is the use case?

..... addCourse, removeCourse, changeCourseInformation, examineAvailableCourse,
enrollCourse, dropCourse, printReport

3.3 Draw the use case diagram.



_____ (Signature)

4. Create a set of detail use case descriptions for course adding use-case the university registration system in exercise 3.

| | | | |
|------------------------------|--|---|---------------------|
| Use Case ID | UC02 | | |
| Use Case Name | enrollCourse | | |
| Created By | Sahachan Tippimwong | Last Update By | Sahachan Tippimwong |
| Date Created | 7/1/2021 | Last Revision Date | 7/1/2021 |
| Actors | Student | | |
| Description | This use case use for let use enroll the specific course | | |
| Trigger | When actor enroll the available course in the system | | |
| Preconditions | Actor must be student and select course to enroll first | | |
| Use Case Input Specification | | | |
| Input | type | Constraint | Example |
| Course name | String | It is a constant value that given by a system database | 953232- OOAD |
| Post conditions | If enroll is successful Registration system will mark student as enrolled on this subject | | |
| Normal Flows | User | System | |
| | 1. Student enroll in selected subject | 2. Registration system will check student enroll history [A1:student enrolled but their grade is more than c+][A2: student enrolled but their grade is less than c+] 3. Registration system will mark this student as enrolled | |
| Alternative Flow | A1 : student enrolled but their grade is more than c+ 1. system will display message “Warning!!! You cannot enroll this course”. 2. System will redirect to the enroll page A2: student enrolled but their grade is less than c+ 1. system shall display “You must do better!!”. 2. Goes to normal flow 3 | | |
| Exception Flow | | | |
| Assumption | Actor need to be student in the system university | | |

5. Create the use case diagram for the following case study

OTV (Online Television) is a company which delivers both paid and free online television broadcasting services to all TV fans. Members can watch both live and archived TV programs on OTV's website, anytime and anywhere.

There are two kinds of memberships - general and premium. It is free of charge for visitors to register as a general member to watch any archived TV programs. On the other hand, they can register as a premium member to watch both archived and live programs, for US \$30 per month. A general member can upgrade himself to a premium member anytime he wants to. However, premium member is not allowed to change himself back to a general member. Members can remove his/her account permanently by mailing us an account removal form.

Besides watching TV programs, premium members can share their opinions of the TV programs with each other, by posting their opinion under the video panel. Prizes will be given to the member who raises the most active discussion each month. Premium members will also receive monthly newsletter, which lists the recommended programs in the coming month.

In order to maintain the system, administrators should have the rights to update the program schedule, update the program as well as to archive programs. Administrator should also help to monitor the delivery of newsletter to premium members.

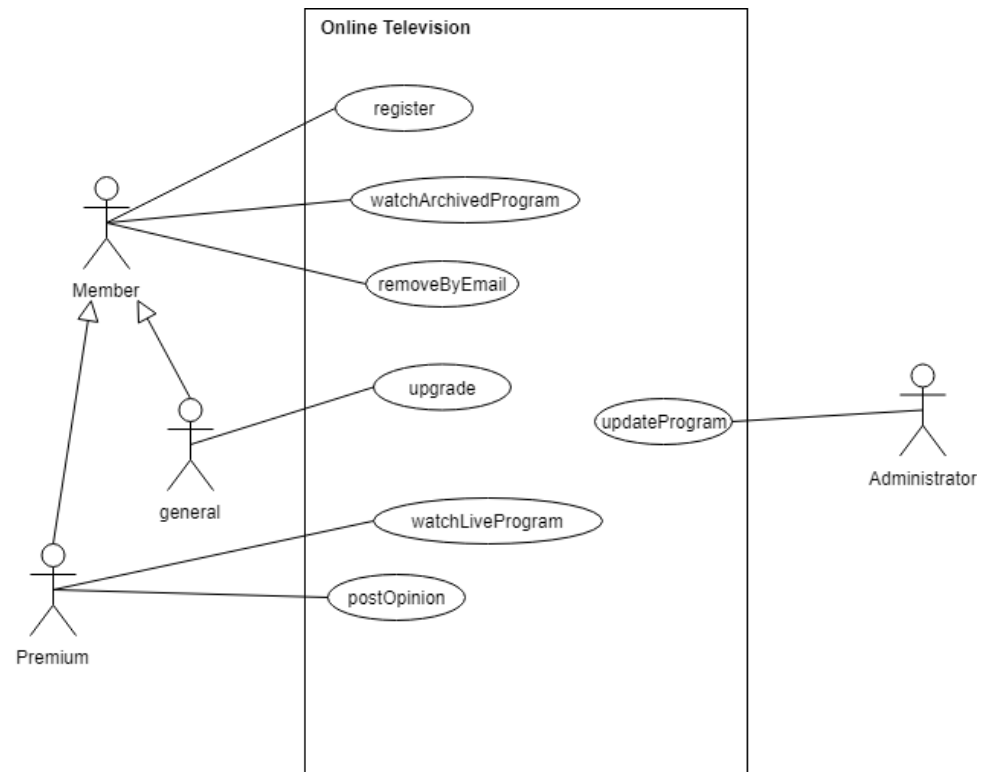
5.1 What is the actor?

.....Member,Administrators

5.2 What is the use case?

.....register, watchArchivedProgram, watchLiveProgram ,upgrade, remove, postOpinion, ,
updateProgram

Draw the use case diagram.



_____ (Signature)

6. Create a set of detail use case descriptions for opinion sharing use-case the university registration system in exercise 5.

| | | | |
|------------------------------|--|---|---|
| Use Case ID | UC02 | | |
| Use Case Name | postOpinion | | |
| Created By | Sahachan Tippimwong | Last Update By | Sahachan Tippimwong |
| Date Created | 7/1/2021 | Last Revision Date | 7/1/2021 |
| Actors | Member | | |
| Description | This use case use for post member opinion under achieved program or live program | | |
| Trigger | Actors watch a program and click post opinion | | |
| Preconditions | Actors need to be a premium member and watching a program | | |
| Use Case Input Specification | | | |
| Input | type | Constraint | Example |
| Opinion | String | This value contains English language within 5000 alphabets | This movie makes me cry it name documentation |
| Post conditions | Opinion will be post under the TV/ live program | | |
| Normal Flows | User | System | |
| | 1 Scroll down under video clip or live program and click on opinion box 3 click post opinion | 2 Check amounts of alphabet in box [A1: more than 5000 alphabets] 4 Check internet connection [E1: not connect to internet] 5 Post opinion 6 Bring user to current playing program | |
| Alternative Flow | A1: more than 5000 alphabets 1. When user trying to add more alphabet, the box will not show anything 2. Goes to normal flow 2 | | |
| Exception Flow | E1: not connect to internet 1. Force user device to find the internet connection 2. Redirect to current video program | | |
| Assumption | User must be a member of the system | | |