# Ejercicio de casos de uso2 Ingeniería de software

# telétono direccion

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# Instructions

- 1. Draw the User Interface and Database Modeling required by the following Use Case.
- 2. Draw the activity diagram used for business process modeling, for modeling the logic captured by a the use case or usage scenario. 11113

#### **Use Case**

Name: Enroll in University. Identifier: UC 2

#### Description:

Enroll someone in the university.

# Preconditions:

•The Registrar is logged into the system.

•The Applicant has already undergone initial checks to verify that they are eligible to enroll. Postconditions:

•The Applicant will be enrolled in the university as a student if they are eligible.

# **Basic Course of Action:**

An applicant wants to enroll in the university.

The applicant hands a filled out copy of form <u>UI13</u> University Application Form to the registrar. [Alternate Course A: Forms Not Filled Out]

The registrar visually inspects the forms.

The registrar determines that the forms have been filled out properly. [Alternate Course B: Forms Improperly Filled Out].

The registrar clicks on the Create Student icon.

The system displays <u>UI89</u> Create Student Screen. 6. The registrar inputs the name, address, and phone number of the applicant. [Extension Point: UC34

Perform Security Check. Applicable to Step 17]

- The system determines that the applicant does not already exist within the system according to BR37 Potential Match Criteria for New Students. [Alternate Course F: Students Appears to Exist Within The System].
- 9. The system determines that the applicant is on the eligible applicants list. [Alternate Course G: Person is Not Eligible to Enroll]
- The system adds the applicant to its records. The applicant is now considered to be a student. 10.
- The registrar helps the student to enroll in seminars via the use case UC 17 Enroll in Seminar. 11.
- The system calculates the required initial payment in accordance to BR16 Calculate Enrollment 12. Fees.
- The system displays <u>UI15</u> Fee Summary Screen. 13.
- The registrar asks the student to pay the initial payment in accordance to BR19 Fee Payment 14. Options.
- 15. The student pays the initial fee. [Alternate Course D: The Student Can't Pay At This Time]

16. The system prints a receipt.

- The registrar hands the student the receipt. 17
- 18. The use case ends.

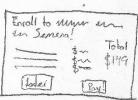
# Alternate Course A: Forms Not Filled Out

A.2. The Applicant asks for a set of forms.

A.3. The Applicant fills out the forms as appropriate.

A.4. The use case continues at step 2 in the basic course of action.

U15



Fuente: http://home.ku.edu.tr/dalbayrakoglu/public html/UseCaseExamples.htm

# Ingeniería de software

Questions related to object oriented concepts<sup>1</sup> Write the correct word in the gaps.

1.Real-world objects contain behavior and gate.
2.A software object's state is stored in July
3.A software object's behavior is exposed throughmethods
4. Hiding internal data from the outside world, and accessing it only through
publicly exposed methods is known as data exceptuation.
5.A blueprint for a software object is called a <u>class</u> .
6.Common behavior can be defined in a superclass and inherited into a subscience using the extende keyword.
7.A collection of methods with no implementation is called an interface.
8.A namespace that organizes classes and interfaces by functionality is called a package.  Application Programming 9.The term API stands for Interface ?

<sup>1</sup> Fuente: http://docs.oracle.com/javase/tutorial/java/concepts/QandE/questions.html

