



SCHOOL OF INFORMATION TECHNOLOGY AND ENGINEERING

CAT II - B. Tech (IT) - Fall Semester - 2018-19

Course Name: Software Engineering-Principles and Practices Duration:

Minn

Course Code: ITE1005

50

: C1+TC1 Blot

Faculty : Prof.Kalaivani S & Prof.Karthikeyan J

PART A (5* 19-50)

ANSWER ALL THE QUESTIONS

braw the state diagram for the given scenario.

This scenario focuses on course registration of the student.

Consider the CourseSection is in Planned state and is not, yet ready to receive students. When registration is opened, the system moves to OpenNotEnoughStudents state.

In this state, the CourseSection can accept requests to register, but the course will not actually be taught until the class size reaches a certain minimum. The object evaluates the classSize >= minimum condition every time anything occurs that could make the condition true; as soon as it becomes true, a transition is taken to openEnoughStudent' state.

If requests to register continue while in OpenEnoughStudent state, the object will eventually exceed a predefined maximum number of students, at which time it automatically moves to Closed state. The course section can also be explicitly closed by a closeRegistration event, indicating that the registration deadline has passed. If there are not enough students, closing a course section has the same effect as cancelling it. There is no end state (the target symbol) because we will keep a permanent record of the course section, whatever happens.

Z. SCENARIO I:

This system helps the users in curing their disease by giving the list of fruits and herbs that the user should consume in order to get rid of their disease. The main purpose of this system is to help the user to easily search for herbs and fruits that will be good for the health of the user depending on any health issue or disease that he/she is suffering from. This system helps the user to reduce their searching time to a great extent by allowing the user to specify their health problem and search accordingly. The admin can add fruits and herbs to the system and its information. This system also

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Max. Marks :

allows the user to view the selected fruits or the herbs description which describes how the fruit or the herb will help to improve the user's health. The system allows the user to place order which will add the items to the users cart and make payment for the same. The system also includes a module in which the user can search for the hospitals depending on the name of the disease that he/she enters.

For the given scenario-1, draw the structure of the class diagram by identifying its appropriate relationship with multiplicity and visibility of the classes with minimum three attributes and operations for each class.

3. Answer the following questions for the SCENARIO 1.

a. Refine five data and procedural abstraction.

b. Apply information hiding to any one separate of concern and Justify.

[5 Marks]

Answer the following questions for the SCENARIO 1.

a. Apply aspect (Crosscut) between any five pair of requirements and Justify.

 b. Draw the DFD-level-0diagram.

[5 Marks]

3/a. Categorize the following aspects of a design by the types of coupling they exhibit. Explain your answer.

A system has a class called Address. This class has four public variables constituting different parts of an address. Several different classes, such as Person and Airport manipulate instances of this class, directly modifying the fields of addresses. Also, many methods declare one of their arguments to be an Address.

b. Design the GUI for application software that can convert audio files from one format to another. Apply any five usability principles and make a paper prototype.

[5 Marks]