



# United International University (UIU)

## Dept. of Computer Science & Engineering (CSE)

Mid Term Exam Trimester: Summer 2020 Marks: 20 Time: 1 Hour

Code: CSI 311 Course Title: System Analysis & Design

**Any examinee found adopting unfair means will be expelled from the trimester / program as per UIU disciplinary rules.”**

Answer ALL of the following questions:

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### **QUESTION 1**

**[CO3]**

**10**

Consider the following scenario for “**CSE Software Project Showcasing Event**” Management System:

Suppose the department of CSE, UIU has decided to develop a software for managing its upcoming Software Project Showcasing event. A Student can submit a request for showcasing his/her project in that Project Showcasing event, mentioning the short description of their software those are stored in SOFT\_DESCRIPTION data store. The student’s information is stored in the STD\_INFO data store.

The Admin receives Request Reports through the Generate\_Request process, which receives student info along with their project description from the STD\_INFO and SOFT\_DESCRIPTION data stores respectively. Afterwards Admin makes decision on request acceptance or rejection by initiating Accept\_Reject process. The process forwards the acceptance information to volunteers, if it is accepted otherwise the process informs the students regarding rejection. Acceptance and rejection info stores in in ACCEPT\_REJECT data store.

The volunteer initiates Booth\_Allocation process, where valid Student\_ID will be checked using university’s STUDENT data store before allocating the booth number, for allocating a particular Booth for any student to showcase the project in the event. It updates the BOOTH\_BOOKING and STD\_INFO data stores.

- a) Draw DATA FLOW Diagram for the above scenario. [3]
- b) Draw the USE CASE Diagram (having at least one “include” or “extend” connection) [3]
- c) Write down the USE CASE Descriptive Form for one major Use Cases. [4]

### **QUESTION 2**

**5**

- a) Mention the major features of ERP software system. [CO1] [2]
- b) Suppose you are going to develop an **online project management tool** software in your Lab project. Mention your SWOT analysis. [CO3] [3]

**QUESTION 3****5**

- a) Suppose you are planning to develop an Online Education Platform including Digital Contents for High School Level students of our country (class VI – X), Mention the major sources of information and benchmark products for this project. [CO2] [2]
- b) Analyze the **strength, weakness** and **effective situations** for **Interview** information gathering tool. [CO2] [3]