SWE 321 – Final Project

Spring 2020

Project Title: Online Event Registration System for Zayed University

Project Objective and Guidelines:
This project integrates what the student has learnt through the semester to analyze a given system requirement using Object Oriented (OO) techniques, design using UML class diagram, extract class relationships, and implement the system in Python.

Project submission guidelines
1. The project team will comprise of a maximum of 3 students.
2. Submit final Python code (SWE 321), UML and other documents to Black Board within the given deadline.
3. Weight: 30% of total course grade.

Project Description:
This project requires the creation of a computerized Online Event Registration System for "Zayed University".
The software for online event registration system, is an automated process which would allow a user to book event tickets online at his/her own convenience.

This system provides multiple user data access. Each web-user like Admin or Customer can login into the software by writing username and password.
The system should be able to identify if the customer is an existing user or not and display appropriate messages.

Once the Customer has logged into the system, he/she should be able to select an Event and register for it. An Order is generated, and Ticket is issued to the Customer.
The Ticket details should be displayed to the Customer.

When the customer registers for an event, the number of tickets for that event should be debited accordingly.
The customer should be able to view all the events he or she has registered for.
The online event registration system is monitored and managed by the admin.
The Admin should be able to add or delete an event.

The proposed online event registration system is advantageous as it provides a user-friendly environment and also increases security and minimizes human calculation errors.

Assumptions:
- Create a UML Class diagram for the system.
- The student has the flexibility to choose his/her attributes for each class.
- The student is expected to be creative in designing a GUI (Graphical User Interface) for the system (sample attached) which must be well formatted with sufficient information to allow user to easily interact with the system.
- The Online Event Registration System uses a **File Manager** which manages various text files, where it reads and stores data into it. It also has the main module (test code) of the system.
- All **inputs should be validated by testing the code using the try-except clause**.

Final Submission:

SWE 321: Lab Component

As part of the course completion requirement of SWE 321, the above project must be implemented in Python. The completed Python project is submitted on Black Board with all the required files in a compressed format.
The code must be well organized and documented. The use of good documentation, proper naming convention for files, classes, and variables is essential to integrate the modules of the project.

The overall marking scheme rubric for the Python code is given below, which will be used to evaluate a fully functional error free code.

Marking Scheme:

Name	SWE 321 Project Rubric				
Description					
Rubric Detail					
	Levels of Achievement				
Criteria	Exemplary (A)	Accomplished (A-/B+/B)	Developing (B-/C+/C)	Beginning (C-/D+/D)	0 (F)
DOCUMENTATION Weight 10.00%	90.00 to 100.00 % Excellent readability. Comments are sufficient and Indentation are correct.	80.00 to 89.00 % Very good readability. Comments are sufficient and Indentation are correct	70.00 to 79.00 % Good readability. Comments are included and Indentation are correct	60.00 to 69.00 % Code is not readable and not well documented.	0.00 to 59.00 % No documentation included.
UML NOTATIONS Weight 20.00%	90.00 to 100.00 % The solution fully meets the below criteria: All UML notations are correctly used.	80.00 to 89.00 % The solution mostly meets the below criteria: All UML notations are correctly used.	70.00 to 79.00 % The solution somewhat meets the below criteria: All UML notations are correctly used.	60.00 to 69.00 % The solution partially meets the below criteria: All UML notations are correctly used.	0.00 to 50.00 % The solution fails to meet the below criteria: All UML notations are correctly used.
INPUT STATEMENTS with GUI(Graphical User Interface) Weight 20.00%	90.00 to 100.00 % The solution fully meets the below criteria: Input statements are correct according to specs.	80.00 to 89.00 % The solution mostly meets the below criteria: Input statements are correct according to specs.	70.00 to 79.00 % The solution somewhat meets the below criteria: Input statements are correct according to specs.	60.00 to 69.00 % The solution partially meets the below criteria: Input statements are correct according to specs.	0.00 to 59.00 % The solution fails to meet the below criteria: Input statements are correct according to specs.
OUTPUT STATEMENTS with GUI(Graphical User Interface) Weight 20.00%	90.00 to 100.00 % The solution fully meets the below criteria: Output statements are correct as required	80.00 to 89.00 % The solution mostly meets the below criteria: Output statements are correct as required	70.00 to 79.00 % The solution somewhat meets the below criteria: Output statements are correct as required	60.00 to 69.00 % The solution partially meets the below criteria: Output statements are correct as required	0.00 to 59.00 % The solution fails to meet the below criteria: Output statements are correct as required
PROGRAM LOGIC Weight 25.00%	90.00 to 100.00 % The solution fully meets the below criteria: Program logic is correct.	80.00 to 89.00 % The solution mostly meets the below criteria: Program logic is correct.	70.00 to 79.00 % The solution somewhat meets the below criteria: Program logic is correct.	60.00 to 69.00 % The solution partially meets the below criteria: Program logic is correct.	0.00 to 59.00 % The solution fail to meet the below criteria: Program logic is correct.
SUBMISSION QUALITY Weight 5.00%	90.00 to 100.00 % The solution fully meets the below criteria: Submission was on time.	80.00 to 89.00 % The solution mostly meets the below criteria: Submission is 1 day late	70.00 to 79.00 % The solution mostly meets the below criteria: Submission is 2 days late	60.00 to 69.00 % The solution mostly meets the below criteria: Submission is 3 days late	0.00 to 59.00 % The solution mostly meets the below criteria: Submission is very late