Assignment 2 – Practical Assessment

Due date: Refer to Assignment Submission Box on VU Collaborate

Weighting: 30% of final grade

Coverage: This assessment item is based on course content in weeks 5- 11

Scenario

User Modelling Inc. (https://www.um.org/) would like to organize a series of conferences focusing on research topics in the area of user adaptive systems and personalization. They need to organize annual conferences for researchers and industry practitioners to meet and present their work in 2019. You are appointed as an analyst programmer to develop a system to support the conference organization of User Modelling Inc.

Your task is to investigate the operation of User Modelling Inc. and identify potential events or conferences through the provided link or any other resources available online. You will design and develop a conference management system for User Modelling Inc. that allows conference organizers to manage the events and registrations. The system should store conference/event details, organizers details for each conference, attendee details and their event registration.

Model Design Requirements

You are going to design a model to store data for your application with the following specification:

- You have freedom to design your own data architecture and properties for the classes, however it should reflect your understanding about complex entity relationships, including **one-to-one**, **one-to-many**, **many-to-many**, and **inheritance**.
- The application should store information for every class and relationship. Inheritance should be used to model classes with similar properties. For example, human being class may have common properties such as ID, Name, Contact details (email, phone, address, etc...). Besides, each unique class should also have its own properties. You should provide **justification** in your report, on the proposed classes, properties and their relationships stating why they are necessary.
- Appropriate **data annotations** and **input validations** should be provided in all model classes. You should customize your own error messages and NOT use the default error messages provided by the template.

An example model is provided in SampleDocument.pdf file (VU collaborate), to help you better understand how the application should be implemented. However, you must NOT use the provided model, as it is not suitable specifically for the case in this assignment.

Application Specific Requirements

- You are required to develop an **ASP.NET MVC** application.
- Home page shows assignment name, student full name student id and location (campus). Display the logo of the organization, on every page and link it to User Modelling Inc. website.
- Develop the Model Architecture appropriately to reflect your understanding of complex entity relationships.
- The database should be **seeded** with at least 3 records for each class using database initializer. So, when the application is deployed, there will always be 3 records shown for every class.
- All pages should have the **logo** and navigation **menu**. If user clicks on the logo, they will be directed to User Modelling Inc. website.
- You should present your web page professionally using your own design, NOT the same as in the sample website.
- Appropriate user interaction and navigation should be considered for your application.
- You application should be ready to run without any further configuration.

Documentation Requirements

You are required to prepare a project documentation using Microsoft word. In this documentation should include:

- **Background:** Information about the organization and target user analysis must be provided. What are the functional requirements of the proposed system? What are the benefits of the system to the targeted organization/users? You should use your own writing for this part. Copying and pasting information from website will not award any marks.
- **Data base design**: Class Diagram showing classes, properties and relationships. *Justification must be provided* to explain why or how the proposed architecture is suitable for the case study.
- **User manual**: you should take screenshot and describe how user can navigate through your application, view records as well as performing admin functionality (create, edit, delete, assign etc.).
- **Test instruction:** to show and describe cases when user enter invalid information, how the application response with error message and instruction.

Submission Requirements

You are required to submit two separate files into submission box on VU Collaborate:

1. A word document containing Assignment Cover Sheet (provided on VU Collaborate) with your name and student ID, together with the *documentation as specified above*.
2. The application project packed as a single zip file.

(*The document and the project should be submitted separately. Do not zip the document)*

Assessment Criteria

Your assignment will be marked based on the functionalities, the representation of the interface and the quality of the documentation.

Marking Criteria	Weight	Marks	Comments
Project Documentation: (30 %)			
Background about the organization and target user analysis must be provided. What are the functional requirement and user case of the proposed system? What are the benefits of the system to the targeted organization/users?	**10**		
Class Diagram showing classes, properties and relationship. Justification must be provided to explain why or how the proposed architecture is suitable for the case study.	**15**		
User manual and Test instruction are provided with appropriate structure/format, easy for user to explore the application.	**5**		
Systerm Delivery: (60 %)			
Home page shows assignment name, student full name student id and location. Contact Detail page is provided. Logo of the organization is shown on every page and linked to appropriate website.	**5**		
The Model Architecture is developed appropriately and reflect understanding of complex entity relationship	**15**		
The database is seeded with at least 3 records for each class (using the database seeding approach provided in the course)	**15**		
Create Pages should allow user to create new records. Edit Pages for the classes allow for updating/changing the existing information. Delete pages allow for deleting the corresponding records	**10**		
Details Pages show the information as indiciated in the assignment specification.	**5**		
Appropriate data annotation should be provided to validate user input.	**10**		
The web interface is designed professionally and attractive. CSS style sheet is used	**10**		
Total Mark	**100**	**0**	
Late Penalty (5% per day)		**0**	
Final Mark		**0**	
Note: The mark will be scaled to 30% for the final grade.			