Web Development Using Application Frameworks Conceptual Data Modeling Assignment Instructions

Overview

This assignment is all about conceptual data modeling. You will be practicing two activities that are part of conceptual data modeling:

- 1. Conducting a *ragbag* planning exercise
- 2. Creating an entity-relationship diagram (ERD)

Deliverables

The *ragbag* planning exercise is a precursor to creating the ERD. You will not be submitting the results of the *ragbag* exercise. You will only be submitting the entity-relationship diagram (ERD).

Scope of Data Model

The scope of the data model that you create in this assignment will depend upon which of the exercises you decide to complete. The two alternative scopes are:

1. Exercise 1 (Required)

Include all functionality of the EZU application that is demonstrated in the *Exercise 1 Requirements Video*. This will include the full C-R-U-D functionality for all parts of the EZU database. In the *Exercise 1 Requirements Video*, I will demonstrate that functionality.

2. Exercise 2 (Optional Challenge Exercise)

Also include all functionality of the EZU application that is demonstrated in the *Exercise 2 Requirements Video*. This will include all EZU features related to authentication and authorization. In the *Exercise 2 Requirements Video*, I will demonstrate that functionality.

The Ragbag Exercise

Following the approach that I demonstrate in the *Part 1 Tutorial Video*, conduct a *ragbag* exercise for the EZU System. If you are planning to complete both Exercise 1 and Exercise 2, then consider all of the requirements in the ragbag exercise. If you are planning to complete only Exercise 1, then don't include the requirements related to authentication and authorization in the *ragbag* exercise.

The result of this *ragbag* exercise should several lists of items to be used when creating the ERD in the next step. These include:

- List of entity types (Entities)
- List of relationship types (Relationships)
- List of attribute types (Attributes)
- List of important instances

These lists are for your own use. Please DO NOT submit them.

The ERD

Following the approach that I demonstrate in Parts 2, 3, 4, and 5 tutorial videos, create an ERD for the EZU System. If you are planning to complete only Exercise 1, then don't include the requirements related to authentication and authorization in the ERD. When the diagram is complete, create a PDF copy to submit.

Please submit only 1 PDF document. If you are doing both Exercise 1 and Exercise 2, then your PDF document will be bigger. If you are only completing Exercise 1, then your PDF document will be smaller. In any case, only submit 1 PDF document.

Tools

The *ragbag* exercise can be done pencil and paper with any word processor. Since you are not submitting the output of this exercise, you are free to use any tool.

The ERD should be done with LucidChart.

Format

The ERD should be submitted as a PDF document

File Naming

You will be submitting a single PDF document named according to the following scheme:

surname_givenname_conceputal_data_model.pdf

If I were completing this assignment, I would name my file:

trainor_kevin_conceputal_data_model.pdf

PLEASE NOTE: All file names must be in lower case. Deductions will be made for submissions that do not conform to this standard.

Due Date

Please see the Weekly Schedule for the date and time when this assignment is due.

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