

Assignment - Part 2

Submission Date ____Friday 29th Nov 2019____

Question – ASP.NET Core Web Application Development (50%)

An animal sanctuary called Animal Lifeline wants to make available via a web application details of animals that it currently has available for the public to foster. Typical information it might hold regarding each animal would be:

- Animal name
- Type of animal
- Breed
- Gender
- Date of birth
- Description/characteristics
- Image of the animal

You are required to develop an ASP.NET Core web-based application that facilitates creating, displaying, editing and deleting individual animal records.

You should take a software layered approach to developing your application, with a supporting database for a service layer and an ASP.NET Core MVC web layer. The services should be unit tested before being used by the MVC web layer. The MVC web layer acts as the user interface for the application. Ideally the MVC web layer should be protected by a login facility with only authenticated users being authorised to modify any of the data accessible to the user. User input should be validated.

You should present the following as part of your assignment submission:

- (a) C# class model for an Animal with a snapshot of the database (10 marks)
- (b) Code for the services developed with associated unit testing code (10 marks)
- (c) Code for the Animal *Controller* (5 marks)
- (d) Code for each of the MVC Animal views (5 marks)
- (e) Snapshots of user testing the MVC web application (10 marks)
- (f) Demonstration of your software in the laboratory. (10 marks)

Provide a rationale covering your design decisions associated with developing the application and comment on any innovative techniques or limitations in your application.

Note. This assignment should be named “Assignment Part 2” and uploaded as a PDF to Blackboard under “COM580 – Enterprise Computing”.)

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