Mark Jumper

CS-499-18941-M01 CS Capstone

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List of Enhancements:

Software Design and Engineering:

* UI/UX design using XML/C# in the form of a Microsoft WPF application.
* Use of buttons to perform required filtering as required in original Dash Plotly Application
* Implementation of a User Login Screen to enhance security
* Create separate page for user input to update records in database

Algorithms and Data Structures:

* Proposed enhancement is to include logic to have a light source rotate around the object – this is from the project in Computer Graphics and Visualization.
* Purpose is to demonstrate vectorization as the data, and how to manipulate that data to perform animation.

Databases:

* Original project utilized MongoDB. This project was used in a virtual environment which I no longer have access to.
* The proposed enhancement is to instead use an SSMS/SQL database to perform CRUD actions to the datastore.
* Along with the datastore of the ‘Animal Shelter’ used in the project, an additional enhancement will be to implement security by providing a user table along with a hashing method to store user passwords.