Captone Project Negotiation

Big Picture

The Big picture idea for the capstone project is to create a system to track alignment assessment for MSP customers and create recommendations that will become project to bring them into or keep them in alignment. A piece of this would include bringing in data from multiple sources to support the assessments and recommendations.

Networking and Cybersecurity

The nature of the assessments are Networking and Cybersecurity based. Like how a firewall is setup and is it to our standard. Another example is does the password policy meet are standard that is based on NIST.

Business Analytics

For this there are two pieces. The first is we could have a basic assessment already filled out. A user could then change the answers to questions and have it live updated the score and overall performance. Ideally, as more assessments are done a graph showing the change in score would be helpful.

The second piece of this is analyzing the data pulled in from other sources. This could be things like a chart showing the cost to replace the computers as they go out of warranty.

Data Management

For this I would most likely build out a database with SQLite. I could prefill a few tables like customers, assessments, assessment types, assessment questions, recommendations, and projects. For the data integration I would most likely utilize the skills learned in DR. Humphreys Digital Forensics course and generate a fake inventory of computers with randomly generated data. This would normally be done by an API but fully building that integration may be outside scope. I could program an API sync button to randomly generate data and insert it into the tables. This data could then update the tables generated by the business analytics section.

Software Systems

For this I will be leaning into my Software Engineering class since I am using this project in that course as well. That course will get the framework in place, and I can then come in a put in actual views with bootstrapping. I could see these views being possible an overall summary of a customer with some graphs and information about their assessment and machines. Another view to open and make changes to an existing assessment. Maybe

a finale view to show the list of machines with a refresh button that randomly changes the info.