Enhancement Two: Algorithms and Data Structure

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Computer Science Capstone 20EW6

**Category Two: Algorithms and Data Structures**

The artifact for category two will be the final submission IT145 Final Project for IT 145: Foundation in Application Development. With that, the plan being is to evaluate the code and final assessment for faults and accuracy. Thus, allowing for the skills and abilities within Algorithms and Data Structure to be captured, assessed, and dispensed adequately.

A close up of a map

Description automatically generated

This artifact is final submission IT145 Final Project for IT 145: Foundation in Application Development. The details for this are that is it an authentication server that take input of username and password, creates an md5 hash, and then compares the hash to a database that will correlate the hash. The artifact was created April 5, 2018 for IT-145 SNHU online class.

The justification of utilizing this artifact within the ePortfolio is to show the capability to utilize, create, and implement Algorithms and Data Structures. Also, selection for the interest in utilizing the java language, and the ability demonstrated to create and developed algorithms. While access this artifact two years after creation, vetting and understanding the utilization was fundamental. Throughout this there were areas such as the pseudocode that were updated to better create an initial developmental understanding for future needs. There were not much room for improvements as most of the code were implemented highly accuracy with zero checker or complier faults. However, with that lack of the creditials.txt file conducting run operations were not applicable.

While conducting planned course objectives to meet the enhancement, it was noticed that the plan was vague overall. With that, conducting code reviews, and overall assessments various details such as ensuring hashing deployment, and comparison where fundamental within the enchantment. Those are the main updates to the outcome-coverage plan. Fortunately, the code within the files evaluated contained sufficient commenting that did not need to be added or changed.

During the process of enhancing and/or modifying the artifact, the utilization of java concepts and application were refreshed. This was due to the main utilization of python code and pythonic scopes utilized on a normal based. This led to changes in understanding the various java syntax utilized. However, with the good use of commenting, the syntax was easily understood, and processing of the artifact was not hindered.