4-2 Milestone Two: Enhancement Two: Data Structures

Peter Cler

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CS499 - Southern New Hampshire University

Abstract

According to the Milestone Three Rubric for CS 499 and the enhancement that I outlined in Milestone One selection, I will use this document to show my ability in data structures and algorithms and attempt to portray my skills in problem solving and describe ideas and technical solutions.

Artifact Description

I have chosen to update the functionality of the Game Review website that I wrote in IT270. I have improved the look and feel of the site as well as included a way for a user to submit a review through the web interface from scratch.

The enhancements that I have included will allow a user to add a review through the web portal and pull a list of reviews from a mongoDB database. For this Data Structures and Algorithms Enhancement, I have created a python bottle server script that will monitor for http api calls. This will allow for both POST and GET requests to create and recall reviews. The actual call will come from a Javascript function in the webpage and that will hit the bottle server which in turn will query the MongoDB database.

The python libraries used to pull off this server include bottle and pymongo. Bottle is a fast, lightweight web-framework for Python. It main strength is that it can be included in a single file and has no dependencies other than the python standard library. Pymongo is a Python library that has a number of tools that help to interface with the MongoDB database. It has functions that allow for all standard MongoDB CRUD actions as well as multiple functions that help with aggregation and grouping. These functions allow for a single .py script to be run and function as a go-between for a system like this web server.