**Senior Project Weekly Status Report**

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**Project Title:** Mutest

**Project Description:**

Design and implement a tool that introduces controlled mutations into Python source code and reports a mutation to evaluate the effectiveness of the test suite.

**Technologies Used:**

Git, GitHub, pytest, AST (Abstract Syntax Trees).

Programming Language**:** Python.

**GitHub URL:** <https://github.com/vinniciuscastro/Senior-Project>

**Week 4: 10/18/25**

Overall Status (on-schedule, behind, ahead): Behind

Number of hours worked this week: 12 hours

Total number of hours worked on the project thus far: 38 hours

Number of total hours anticipated at completion: 91 hours

Accomplishments: This week I was able to finish the testing of the first prototype fix all the unit testing issues I ran until it last week.

Challenges: The Challenge was to fix the imports and I used AI to troubleshoot the errors I was getting, and I also had to get more familiar with how Pytest works.

Plans / Goals for next week: This week I want to start the pipeline and by that I need to learn how to use GitHub Actions.

SPED Talk Insight (Briefly describe an insight or something interesting you learned from the SPED talks this week): This week I watched Jason Yale about API (application programing interface). I like how he displayed some resources of how to find free APIs for different purposes (Nutritionix, API Ninjas, Rapid, and GitHub).

Other comments for the instructor: