**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 6: 10/25/25**

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

Number of hours worked this week: 12 hours

Total number of hours worked on the project thus far: 50 hours

Number of total hours anticipated at completion: 79 hours

Accomplishments: I implemented the test execution and kill/survive tracking and mutation score calculation.

Challenges: The challenge was to get back on track, and I also noticed that I was not completely following the plan, so I had to make sure my plan was appropriate and follow it. I also had problems getting things to run and finding the right library, using AI I got this Astor that converts AST nodes back to source code.

Plans / Goals for next week: The next step is to develop basic CLI and simple reporting (text or HTML output). Basically, usable CLI with reporting

SPED Talk Insight (Briefly describe an insight or something interesting you learned from the SPED talks this week): This week I watched McClain Lindsay about Amazon Cognito that handles all the

Other comments for the instructor: