**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 3: 10/04/25**

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

Number of hours worked this week: 6 hours

Total number of hours worked on the project thus far: 118 hours

Number of total hours anticipated at completion: 111 hours

Accomplishments: This week I dove more into the AST going to resources like [AST python library](https://docs.python.org/3/library/ast.html) documentation , [video class](https://www.youtube.com/watch?v=ulJm7_aTiQM) about compiler, and also explore MutPy documentation and usability. I started a prototype but nothing

Challenges: My biggest challenge this week was personal life demands and a coding assessment for different companies (and preparation for it).

Plans / Goals for next week: Finish the prototype and test it.

SPED Talk Insight (Briefly describe an insight or something interesting you learned from the SPED talks this week): This week I watched Tayler Hickman video about R language and one of the things I learned was the need of using R terminals, and how different packages can be used to do different data manipulation.

Other comments for the instructor: