Cover Page

Full Name: Meet Maheta

Course Name: CST8333

Assignment Title: Programming Language Research Project - Research Assignment 2

Submission Date: June 2, 2024

Development Environment Changes

Operating System: Windows 11 Pro Version 21H2 Build 22000.318

IDE: Visual Studio Code 1.89.1

Programming Language: Python 3.12.3

No changes to the development environment since the last report.

Research and Learning Resources

**Online Articles**

Real Python, "Understanding Model-View-Controller," Real Python. Available: <https://realpython.com/understanding-model-view-controller/> [Accessed: 30-May-2024].

Towards Data Science, "N-Layer Architecture in Python," Towards Data Science, 2021. Available: <https://towardsdatascience.com/n-layer-architecture-in-python-4eccfa3b1fae>. [Accessed: 30-May-2024].

**Documentation**

Django Software Foundation, "Django Documentation," Django Software Foundation. Available: <https://docs.djangoproject.com/en/stable/>.

[Accessed: 29-May-2024].

Pallets Projects, "Flask Documentation," Pallets Projects. Available: <https://flask.palletsprojects.com/en/latest/>. [Accessed: 29-May-2024].

Work Breakdown Structure (WBS)

1. Project Initialization
   1. Define Project Scope
      1. Project Objectives
      2. Key Deliverables
   2. Set Up Development Environment
      1. Set Up VS Code
      2. Install Necessary Libraries (e.g., pandas)
2. Requirements and Design
   1. Collect Project Requirements and Design the Solution
3. Implementation
   1. Write Python Code to Read CSV File
4. Testing
   1. Unit Testing
      1. Test CSV Reading Function
      2. Validate Data Processing
      3. Integration Testing
5. Documentation and Submission
   1. Compile All Project Files and Submit

Gantt Chart for Practical Project Part 2

A screenshot of a computer

Description automatically generated

# References

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| [1] | "Real Python," Real Python, [Online]. Available: https://realpython.com/understanding-model-view-controller/. [Accessed 30 May 2024]. |
| [2] | T. D. Science, "N-Layer Architecture in Python," Towards Data Science, 2021. [Online]. Available: https://towardsdatascience.com/n-layer-architecture-in-python-4eccfa3b1fae. [Accessed 30 May 2024]. |
| [3] | D. S. Foundation, "Django Documentation," [Online]. Available: https://docs.djangoproject.com/en/stable/. [Accessed 29 May 2024]. |
| [4] | P. Projects, "Flask Documentation," [Online]. Available: https://flask.palletsprojects.com/en/latest/. [Accessed 29 May 2024]. |