[**CS-5103-001-Spring-2023-Software Engineering**](https://utsa.blackboard.com/webapps/blackboard/execute/courseMain?course_id=_239769_1)

**Date Time Transformation Project**

**04/15/2023**

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**Summary:**

The following project consists of a script that transforms the given datetime string to different formats and adds day of the week to the date time format, also has a daylight-saving mode which allows adding the daylight-saving starting date time and daylight-saving ending date time.

The script is split into 2 files, main.py that is the script meant to be run and holding all the dependencies, and UnitTesting.py that has the testing for multiple cases of the program.

**Design:**

The design of this code follows an object-oriented programming approach. This program has several functions defined in the utils module that follows a procedural programming approach.

In general, this program follows a modular and reusable approach, separating functionality into different functions and methods.

The program contains multiple comments and is properly formatted, making it easy to understand and maintain.

CPD was used to check for duplicates in the code. Below is the output:

Text

Description automatically generated

No duplicates were found.

In the design of the program, the total implementation was kept the same and there was no need for refactoring. The functions of the program are in different complexity levels. For each new requirement, new functions were declared and added sequentially to the previous implementation of the program. Doing it caused the program to be maintainable and easy to understand.