The Excel Logger



The Excel Logger tool was made using the openpyxl package and allowed automation of exporting PlanetWars win data to .xlsx format. This class was written to be scalable and outputs array data readable by numpy if deeper analysis is needed.

```
from openpyxl import Workbook
     from openpyxl.styles import Font
     from players import Player
     class ExcelLogger(object):
         # T000: Initialize the logger
def __init__(self, book_name: str, sheet_name: str):
             self.workbook = Workbook()
             self.book_name = self.__validateBookName(book_name)
             self.worksheet = self.__initWorksheet(sheet_name)
             self.__cleanupExcelDefaults
         # Summary: Adds headers to worksheet for numpy analysis
         def __initWorksheet(self, sheet_name: str):
         # Summary: Cleans up default excel file
         def __cleanupExcelDefaults(self):
         def __validateBookName(self, given_book_name):
         # Summary: Finds empty row and calls __fillRow()
64 >
         def appendWinData(self, match_id: int, winner, opponent, map_name: str):
         # Summary: Appends a list of data to a row
         def __fillRow(self, data: list, row_id: int):
         # Summary: Tests for a tie returns true if tie occur
         def __tieTest(self, winner) -> bool:
```

ExcelLogger class function overview.

This class will initialize and empty a new excel workbook, build sheets with headers and style the header cells.

The method appendWinData() is called each time a bot match ends. This function finds an empty row in the sheet, appends [match id, winner_name, loser_name, map_played].

Additionally, the class is able to deal with tie situations (as it wouldn't be passed a winner_name or loser_name string value).

Untitled 1