**FileGenerationTest**

**1. Introduction**

The purpose of this document is to provide a comprehensive set of test cases for the FileGenerationService class. These test cases cover various functionalities of the class, including generating Excel files and exporting data to Excel.

**2. Test Cases**

**2.1. Test Case: GenerateFile\_ReturnsNonEmptyMemoryStream**

* **Description**: Verify that the GenerateFile method returns a non-empty memory stream.
* **Test Steps**:
  + Call the GenerateFile method of the FileGenerationService class.
* **Expected Result**:
  + The returned memory stream is not null.
  + The length of the memory stream is greater than 0.

**2.2. Test Case: GenerateFile\_ProducesValidExcelFile**

* **Description**: Verify that the Excel file generated by the GenerateFile method contains the expected data.
* **Test Steps**:
  + Call the GenerateFile method of the FileGenerationService class.
  + Read the contents of the generated Excel file.
* **Expected Result**:
  + The generated Excel file contains the expected data as defined by the ExportToExcel method.

**2.3. Test Case: GenerateFileWorkSheetIsNotNull**

* **Description**: Verify that worksheet retrieved from the generated Excel file is not null.
* **Test Steps**:
  + Call the GenerateFile method of the FileGenerationService class.
  + Retrieve the worksheet from the generated Excel file.
* **Expected Result**:
  + The retrieved worksheet is not null.

**2.4. Test Case: GenerateFile\_GetResult**

* **Description**: Verify that the data exported to Excel matches with the expected data.
* **Test Steps**:
  + Call the ExportToExcel method of the FileGenerationService class.
* **Expected Result**:
* The exported data matches the expected data defined in the test case.

**3. Conclusion**

This test case document provides a comprehensive set of test cases for the FileGenerationService class. By executing these test cases, we can ensure the correctness and reliability of the class's functionalities.