**Statistics Analyzer Developer Guide**

This guide describes modules, function and datatypes of the ‘StaisticsAnalyzer’ code

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# Overview

TestsPopulation

## How to Run

Will be described when the application is ready – for now the document only describes the guidelines for the application

# Code Files

This section lists the various code files in the TestsPopulation code and their purposes

## TestsPopulation.py

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# Modules

This section lists the various modules in the TestsPopulation code and their purposes.

## LogFile

Log file is a class meant to log into a log file all the actions taken by the program

The module contains an init () function meant to build the Logger and its data, it also stores the debug phase which determines what logging messages will be displayed (how deep into the operations will the logging go)

This changes as debug goes

Debug phase of 0 means no debug and debug phase between 1 and 10 are the various debug phases possible

The module also has a function Log () that gets a logging message and a debug value the determines for what value this message should be logged

If for example the message dbg value is 2 and the debug phase is 5 then the message will be logged but if the message dbg value is 6 but the debug phase is 5 then the message won’t be logged

The module also has a function LogError () that gets a logging error message and log it into the log file and the terminal no matter what the debug phase is

*For this module there is a help function called StartLogger () that creates an instance of the LogFile module and stores it into DS.Logger variable*

## ConfigFile

Class ConfigFile is meant for reading configuration files and fill up the right data structures with the configured values from the config file

An instance of this module is created with a string argument that contains the config file name ad after an instance has been created it can be called with its many functions provided for building the different data structures with the data taken from the config file specified at creation

## Module 2

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# Help Functions

This section lists the various help-functions in the TestsPopulation code and their purposes.

## SetProgramStartTime

Sets the program start time and stores it into DS module

## StartLogger

Kind of a wrapping function that creates an instance of the LogFile module and stores it into DS.Logger variable

## BuildCommandLineArguments

Parse and store the command line arguments into the appropriate data structure

## BuildConfigFileInfo

Parse and store the configurable data from the config file into the appropriate data structures

## OverrideCmdArgsValues

Checks if the values stored in the different data structures that were taken from the config file should be altered and overridden with the values from command line arguments

## GetTimeStamp

Returns a string representation of the current time

# Data Structures

This section lists the various datatypes in the TestsPopulation code and their purposes.

## Datatype 1

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## Datatype 2

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## Datatype 2

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