## WiFiAgent

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|---|
| **#** _dataQueue : Queue<Dictionary> [1] |
| **+** \_\_init\_\_(inout self : WiFiAgent [1], in dataQueue : Queue<Dictionary> [1]) |
| **+** run(inout self : DBAgent [1]) |
| **+** terminate(inout self : WiFiAgent [1]) |

## DataCollection

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|---|
| **-** _senseHAT : SenseHAT [1] |
| **-** __dataQueue : Queue<Dictionary> [1] |
| **-** __maxTemp : float [1] |
| **-** __minTemp : float [1] |
| **-** __maxRH : float [1] |
| **-** __minRH : float [1] |
| **-** __maxSpeed : float [1] |
| **-** __temps : float [1..*] |
| **-** __RHs : float [1..*] |
| **-** __speeds : float [1..*] |
| **-** __accels : float [1..*] |
| **+** \_\_init\_\_(inout self : DataCollection [1], in senseHAT : SenseHat [1], in dataQueue : Queue [1]) |
| **+** run(inout self : DataCollection [1]) |
| **+** terminate(inout self : DataCollection [1]) |
| **-** __generateFlags(in temp : float [1], in relHumidity : float [1], in speed : float [1]) : bool[5] |
| **-** __calculateAverage(in values : float [1..*]) : float |

## Controller

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|---|
| **#** _senseHAT : SenseHat [1] |
| **#** _matrixDriver : MatrixDriver [1] |
| **#** _dataCollection : DataCollection [1] |
| **+** dataQueue : Queue<Dictionary> [1] |
| **+** dbDataQueue : Queue<Dictionary> [1] |
| **+** \_\_init\_\_(inout self : Controller [1]) |
| **+** run(inout self : Controller [1]) |
| **+** terminate(inout self : Controller [1]) |
| **#** _flushQueue(inout self : Controller [1]) |

## DBAgent

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|---|
| **#** _dataQueue : Queue<Dictionary> [1] |
| **+** \_\_init\_\_(inout self : DBAgent [1], in dataQueue : Queue<Dictionary> [1]) |
| **+** run(inout self : DBAgent [1]) |
| **+** terminate(inout self : DBAgent [1]) |

## MatrixDriver

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|---|
| **#** _senseHAT : SenseHat [1] |
| **#** _currentData : Dictionary [1] |
| **+** \_\_init\_\_(inout self : MatrixDriver [1], in senseHAT : SenseHat [1]) |
| **+** run(in self : MatrixDriver [1]) |
| **+** terminate(in self : MatrixDriver [1]) |
| **+** updateData(in new Data : Dictionary [1]) |
| **#** _displayGraph(inout self : MatrixDriver [1], in senseHAT : SenseHat [1], in temp : float [1], in relHumidity : float [1]) |
| **#** _displayTempWarning(inout self : MatrixDriver [1], in senseHAT : SenseHat [1], in temp : float [1]) |
| **#** _displayRHWarning(inout self : MatrixDriver [1], in senseHAT : SenseHat [1], in relHumidity : float [1]) |
| **#** _displaySpeedWarning(inout self : MatrixDriver [1], in senseHAT : SenseHat [1], in speed : float [1]) |
| **#** _displayAccelerationWarning(inout self : MatrixDriver [1], in senseHAT : SenseHat [1], in acceleration : float [1]) |

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