**OsMowSis Class Model - 1**

**Enum and Util class**

| <<enumeration>> **Direction** |
| --- |
| NORTH<br>NORTH_EAST<br>EAST<br>SOUTH_EAST<br>SOUTH<br>SOUTH_WEST<br>WEST<br>NORTH_WEST |

| <<dataType>> **ItemPos** |
| --- |
| X:int<br>Y:int |

| <<enumeration>> **MowerAction** |
| --- |
| MOVE<br>STAY<br>CSCAN<br>LSCAN |

| <<enumeration>> **MowerState** |
| --- |
| ACTIVE<br>CRASH<br>DAMAGE<br>NOPOWER |

| <<enumeration>> **Strategy** |
| --- |
| RANDOM,<br>SELF |

| <<enumeration>> **ScanResultType** |
| --- |
| GRASS<br>EMPTY<br>GOPHER_GRASS<br>GOPHER_EMPTY<br>FENCE<br>MOWER |

| <<enumeration>> **ItemType** |
| --- |
| GRASS<br>EMPTY<br>FENCE |

| <<enumeration>> **GopherAction** |
| --- |
| MOVE<br>STAY |

| <<interface>> **PosDirecUtil** |
| --- |
| + getMovetoPostion(curPos:**ItemPos**, direction:**Direction**):**ItemPos**<br>+ calculateDirection(curPos:**ItemPos**, nextPos:I**temPos**):**Direction**<br>+ validateMove(curPos:**ItemPos**, newPos:I**temPos**, direct:**Direction**):boolean |