# **AMR SS2023 BDD Scenarios**

## MS 1 - Assemble robile, joypad control

### **US 1.1**

**As a** system builder I want the joypad control software to work for different hardware configurations of the Robile **So that** the maintainence of the software is simplified

#### Scenario 1.1.1

**Given** a robot assembled in config and is initialized **When** signal is sent via the joypad **Then** the robot moves

**Examples:** | configuration | command | motion | | 1 driving wheel | left stick up fully + right trigger | forward at most 1m/s | | 1 driving wheel | left stick left fully + right trigger | left at 1m/s | 2 driving wheel | left stick left fully + right trigger | left at 1m/s |

### MS 2 - Collision avoidance

### **US 2.1**

**As a** safety engineer I want the robot not to run into static or dynamic obstacles **So that** injuries to human and damages to the environment and the robot can be avoided

### Scenario 2.1.1 - static obstacles

**Given** the robot is moving **When** is in the robot path **Then** the robot goes around the (or stops)

**Examples:** | location | obstacle | | in the kitchen | chair | | through door | vacumm cleaner |

### Scenario 2.1.2 - dynamic obstacles

**Given** the robot is moving **When** a moves through the robot path **Then** the robot does not collide with the

**Examples:** | location | agent | | in straight corridor | person | | through door | robile |