AiROBOTIK

USER ACCEPTANCE TEST FLOWCHART v2

MCT MICRO CONCEPT TECH

B = Faulty

(**Start**)

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[Insert Battery]

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[Turn on robot using switch behind the robot]

- Neopixel turns on white colour wait for 1s
- Gripper moves to fully close
- Buzzer sounds a tune
- Wait for 1s
- Gripper fully opens

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< **Check IR sensor** > —No→ (B)

- Place the robot on the white surface.
- Make sure all infrared sensor LEDs are on.
- Place outer left infrared sensor on the black line, and the blue LED will turn off.
- Place center left infrared sensor on the black line and the blue LED will turn off.
- Place center right infrared sensor on the black line and the blue LED will turn off.
- Place outer right infrared sensor on the black line and the blue LED will turn off.
- Place the infrared sensor on the black surface and ensure all infrared sensors are on the black surface.
- Make sure all blue LEDs are off.

Outer left

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[Press button 5 times for 2s each button pressed]

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[Place robot at position E]

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< **The robot follow the line colour start with red** > —No→ (B)

- Turn on the robot using the switch at the back.
- The buzzer will beep once for the red line. Then, make sure the robot follows the red line.
- If the robot goes off course, lift it and place it back at the start of the yellow line. The buzzer will beep twice for the yellow line. Make sure the robot follows the yellow line.
- Lift the robot and place it back at the start of the green line. The buzzer will beep three times for the green line. Make sure the robot follows the green line.
- Lift the robot and place it back at the start of the blue line. The buzzer will beep four times for the blue line. Make sure the robot follows the blue line.
- Turn the robot around and place it at the start of the blue line.
- If the robot goes off course, lift it and place it back at the start of the green line. The buzzer will beep three times for the green line. Make sure the robot follows the green line.
- Lift the robot and place it back at the start of the yellow line.The buzzer will beep twice for the yellow line. Make sure the robot follows the yellow line.
- Lift the robot and place it back at the start of the red line.The buzzer will beep once for the red line. Make sure the robot follows the red line.
- Yellow 2 beep
- Red 1 beep

Start/Finish E

↓ Yes

[Press button for 2s and buzzer will beep 6 times]

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< **The buzzer make sound if ultrasonic detect object <40cm** > —No→ (B)

↓ Yes

[Turn off AiRobotik]

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(**End**)