TASK

Operation.

Testing

Tolerance

User manual

Warranty

REEMA ALOWAIDAN
438018380

Operations:

- 1- Description of the project The project contains robot fight and a ring. The robots are above the ring. Each robot can move separately. Each robot has a body, and there is a balloon and an arm above it, and at the end of the arm is a knife to attack the other robot, and each robot is targeted. The other balloon and the game depends on certain rules that will be mentioned in the next points

Operations:

2- Determining the dimensions of the robot first. The project consists of two robots the arm robot and the car robot

I drew a rough sketch with a program.

Length 1.6 scale

Offer 1.9 scale

Height 1.1 scale

Operations:

3- Determining the dimensions of the circuit The drawing was made approximate and the dimensions of the car robot were taken into account because it is important to determine the space of the circuit and give sufficient freedom to rotate

I drew a rough sketch with a program.

Length scale2.5

Offer scale2.2

Height scale0.05

Operations:

4 - Operational laws: Laws of the game related to fencing: .

1- The first 5 seconds of any robot moving to make sure everyone is ready.

2- The control is remote.

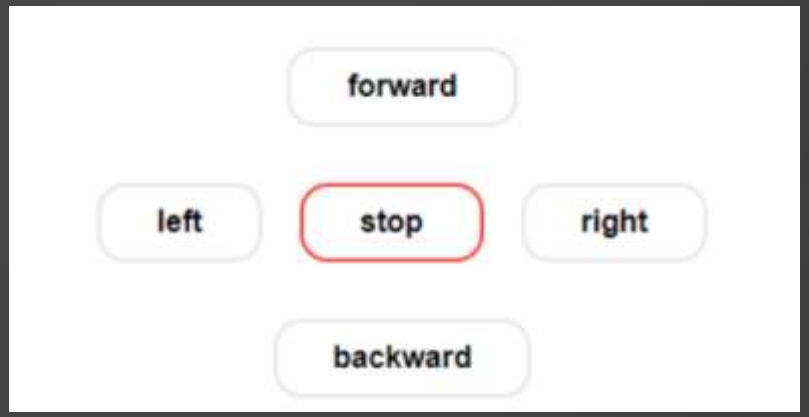
3- Do not throw anything at the robot.

4- If the robot balloon explodes, the other robot will be considered a winner

Operations:

5 - Description of the controls The controls are consist of five buttons, each button has a specific function so that the robot movement is controlled to

1.stop
2.right
3.left
4.backward
5.forward

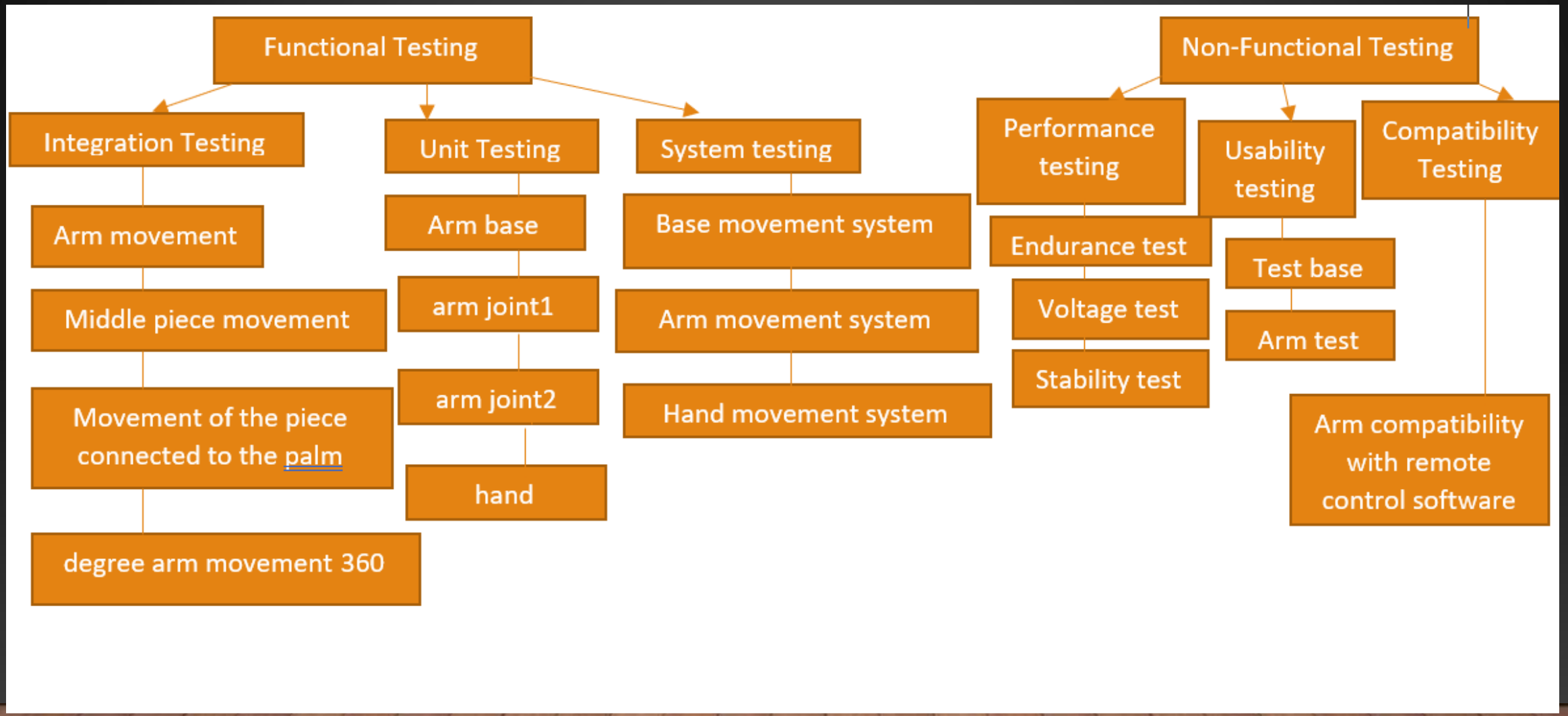


Operations:

6 - Technical description of the operation The operation:

At first, the user interface is run or designed through the ITO path, and then the user in the interface can communicate with the server via Http request, and this is done by requesting and receiving data and commands, and the values or data are given from the data associated with The server and this work or job represent the ITO path. After that, the intelligence path comes and makes the topic intelligent between the hardware, the Database, and the server. The data or commands are given to the hardware to be executed. After the hardware commands arrive, they are given to the Arduino (control panel) and the Arduino is linked with the robotic arm and Wheel base

TESTING


Functional Testing
Integration Testing
Arm movement
Middle piece movement
Movement of the piece connected to the palm
degree arm movement 360
Unit Testing
Arm base
arm joint1
arm joint2
hand
System testing
Base movement system
Arm movement system
Hand movement system
Non-Functional Testing
Performance testing
Endurance test
Voltage test
Stability test
Usability testing
Test base
Arm test
Compatibility Testing
Arm compatibility with remote control software

TOLERANCE

1. Errors in your browser can occur when you press the page and press more than one button at a time

2. The problem with accessing the cloud is that the number of users is many or there is a problem in the Internet that prevents access

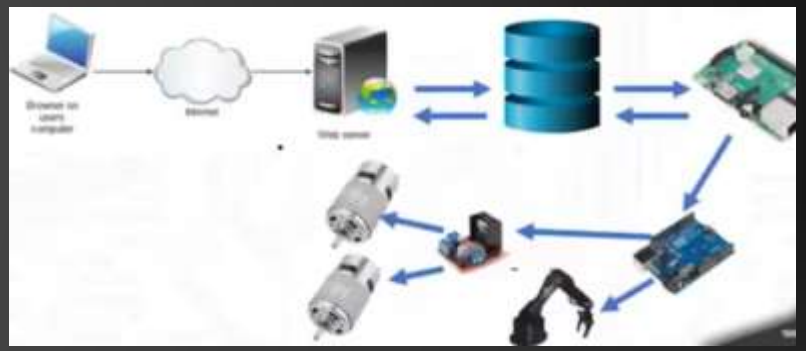
3. Server where pregnancy occurs or crashes

4. The database can make changes to users on it constantly and different names except mistakes and when searching for information we do not find it causing it to lose

5. There can be an error in connecting the pieces

6. There can be damage to the pieces making it difficult for the robot to move

6. Engines can burn when the robot is turned on for a long time and cannot bear



USER MANUAL

Place:

- Put it on a smooth surface.Use in a closed place only.Don't turn it on when you're past non-intense humidity.80.%Don't expose him to dust. Put it away from the heating devices and open fires.and heat sources.You should avoid carrying it and touch it when it moves or walks.
- Control:Children under the age of 14 should be monitored by a person responsible for their own well-being after having read and understood these guidelines well. Children aged 14 and over should be provided with guidance to learn how to use it safely and understand the risksthe jarring about it.It should stay out of reach of children when used in a public place.Environment and risks:
- Please do not throw this product with daily
- wasteSupport:Contact the Technical Support Department when facing any problem

WARRANTY

- The warranty lasts for 8 months to make sure the customer that the product is good and does not include the warranty misuse and the fall of the product from high shelves