

Feature	Why	Expected Value	Expected Input	Test Result (Pass(P) or Fail(F))
Client	Client Server Robot interaction	200 Server Code	<ol style="list-style-type: none"> 1) Npm start client 2) Go to localhost client 3) Tap up arrow 4) Robot moves 5) 200 response returned 	P
Radar	Determine if distance data stream is properly received by server	<pre>{ "location": [2.56, 2.5], "orientation": "E", "radar": 48 }</pre>	Automatically sent after authentication	P
Movement	Determine if movement commands are received by the robot	Moved Right, Left etc.	Arrow key input from keyboard or GUI command	P
Autonomous	Ensure coordinates are converted from relative blocks to numeric coordinates	<pre>{ "Coordinates": [[15, 1], [15, 2], [15, 3], [15, 4], [15, 5], [15, 6], [15, 7], [15, 8], [15, 9]] }</pre>	Autonomous Mode Execute Button	P

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		<pre> } In addition, the robot moving the appropriate steps. </pre>		
Client Dijkstra	Determine if GUI Dijkstra coordinate blocks are correct	<pre> { "Coordinates": [[15, 1], [15, 2], [15, 3], [15, 4], [15, 5], [15, 6], [15, 7], [15, 8], [15, 9]] } </pre>	Generate Path button	P
Panorama	Determine if Images are properly stitched and captured	Panoramic Interactive dome	Panoramic Button / begins when home screen renders	P
Map	Determine if Map data structure is readable by the client	<pre> [{"map_id": 1, "object_type": "Can", "location": [1, 5], "created_at": "2022-11-08T03:0 3:19.350689", "direction": null, "obj_id": 1}, {"map_id": 1, "object_type": "OurRobot", "location": [8, 7], "created_at": "2022-11-08T03:0 3:19.424026", "direction": null, "obj_id": 2}, {"map_id": </pre>	Refresh Field button	P

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		<pre>1, "object_type": "OtherRobot", "location": [4, 1], "created_at": "2022-11-08T03:0 3:19.441324", "direction": null, "obj_id": 3}]</pre>		