Toy Robot Project

The application is a simulation of a toy robot moving on a square tabletop, of dimensions 5×5 units.

Version	1.0.0.X
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Model	T-900

Artifacts

Swagger Documentation	https://toy-robot-t900.herokuapp.com/toyRobot/swagger-ui.html	
joy-stick-controller : Available commannds on the JoyStick Controller Show/Hide List Operations Expand Operations		
рит /joyStick/left	LEFT will rotate the robot 90 degrees in the specified direction without changing the position of the robot.	
рит /joyStick/move	MOVE will move the toy robot one unit forward in the direction it is currently facing	
POST /joyStick/place PLACE will put the toy robot on the table in position X,Y and facing NORTH, SOUTH, EAST or WEST. The origin (0,0) can be considered to be the SOUTH WEST most corner.		
GET /joyStick/report	report	
рит /joyStick/right	RIGHT will rotate the robot 90 degrees in the specified direction without changing the position of the robot.	
[BASE URL: /toyRobot , API VERSION: 1.0]		
Live Implementation	https://toy-robot-t900.herokuapp.com/toyRobot/joyStick/report	
Postman Collections	ostman Collections https://github.com/zaveriakshay/toyrobot/tree/develop/Postman	
https://github.com/zaveriakshay/toyrobot/tree/develop/src		

Instructions

- PLACE will put the toy robot on the table in position X,Y and facing NORTH, SOUTH, EAST or WEST.
- MOVE will move the toy robot one unit forward in the direction it is currently facing.
- LEFT and RIGHT will rotate the robot 90 degrees in the specified direction without changing the position of the robot.
- REPORT will announce the X,Y and F of the robot.

Rules

- The origin (0,0) can be considered to be the SOUTH WEST most corner, this always the default position on the robot
- The robot must not fall off the table during movement. This also includes the initial placement of the toy robot.
- The robot that is not on the table can choose the ignore the MOVE, LEFT, RIGHT and REPORT commands.
- Currently there is no command to remove the robot off the table, we need to restart the spring boot application.

Technical Specifications

- This is a Spring Boot application
- Default port for this application is 8085.
- Default context path for this application is toyRobot
- Default controller for this application is <code>joyStick</code>
- All services are REST, after the end point /toyRobot/joyStick are described on the swagger page as well
 - i. PLACE (POST) /toyRobot/joyStick/place
 - ii. MOVE (PUT) /toyRobot/joyStick/move
 - iii. LEFT (PUT) /toyRobot/joyStick/left
 - iv. RIGHT (PUT) /toyRobot/joyStick/right
 - v. REPORT (GET) /toyRobot/joyStick/report