← Project review - ROS. Day09

Type of project	Individual
Duration	30 min
Passed Peer Reviews	1/2

Git project

Student

About

Main part

Feedback

Git project

ssh://git@repos-ssh.21-school.ru:2289/students/ROS._Da... Copy link Open

Student

mjuli-python-ds level 1

About

Introduction

The methodology of School 21 makes sense only if peer-to-peer reviews are done seriou
sly. Please read all guidelines carefully before starting the review.
- Please, stay courteous, polite, respectful and constructive in all communications duri
ng this review.
- Highlight possible malfunctions of the work done by the person and take the time to
discuss and debate it.
- Keep in mind that sometimes there can be differences in interpretation of the tasks a
nd the scope of features. Please, stay open-minded to the vision of the other.
- If you have not finished the project yet, it is compulsory to read the entire instruction
before starting the review.

Guidelines

- Evaluate only the files that are in src folder on the GIT repository of the student or gr
oup.
- Ensure to start reviewing a group project only when the team is present in full.
- Use special flags in the checklist to report, for example, an “empty work” if repositor
y does not contain the work of the student (or group) in the src folder of the develop br
anch, or “cheat” in case of cheating or if the student (or group) are unable to explain th
eir work at any time during review as well as if one of the points below is not met. How
ever, except for cheating cases, you are encouraged to continue reviewing the project t
o identify the problems that caused the situation in order to avoid them at the next rev
iew.

- Doublecheck that the GIT repository is the one corresponding to the student or the gr
oup.
- Meticulously check that nothing malicious has been used to mislead you.
- In controversial cases, remember that the checklist determines only the general order
of the check. The final decision on project evaluation remains with the reviewer.

Main part

Exercise 00 - Hello Trees.

- Does the package compile successfully?
- Launch file day_09_ex_00.launch starts successfully?
- Run rostopic list in console. Are there topics /repeat_times and /hello_message?
- Run Groot, there should be the tree with Sequence control node and two leaves.
- Open 2 terminals. Run rostopic echo /hello_message in one of them and rostopic pub /
test std_msgs/UInt16 "data: <N>", where <N> is the number of times to repeat “Hello R
OS!” message in the /hello_message topic
- Check the number of messages in /hello_message. There should be as many messages
as you type in <N>.

No ✓ Yes

Exercise 01 - Patrol robot.

- Does the package compile successfully?
- Open the launch file day_09_ex_01.launch and set waypoints and times_to_repeat para
ms with the values you wish (but using notation from the instruction to this task).
- Launch file day_09_ex_01.launch starts successfully?
- Check the terminal where you launch BT. There should be messages of robot “moving”
to points you typed in waypoints as many times as you typed in times_to_repeat (or infin
itely if there is -1 times).

No ✓ Yes

Exercise 02 - The REAL Patrol robot in Gazebo.

- Does the package compile successfully?
- Open the launch file day_09_ex_02.launch and set waypoints, dock_station_pose, times_
to_repeat (set it -1 or bigger then 1 to check that cycles work in the right way) and batt
ery threshold (it is recommended to set in from 15 to 30) params with the values you wi

ery_threshold (it is recommended to set in from 15 to 30) params with the values you wi
sh (but using notation from the instruction to this task).
- Launch file day_09_ex_02.launch starts successfully?
- You should see the robot moving over your waypoints with the right number of cycles in Gazebo.
- Type in the value lower than your battery_threshold into the /battery_status topic usin
g rostopic pub. The robot should change its destination to dock_station_pose.
- Type in 100 into the /battery_status topic using rostopic pub. The robot should start t
o move to the point it moved before going to the dock station. After that, the robot sh
ould continue the patrol mission.

No ✓ Yes

Feedback

Fails

Cheat | Invalid compilation | Empty work | Crash | Forbidden functions

Comment

Leave a comment...

✓ Review