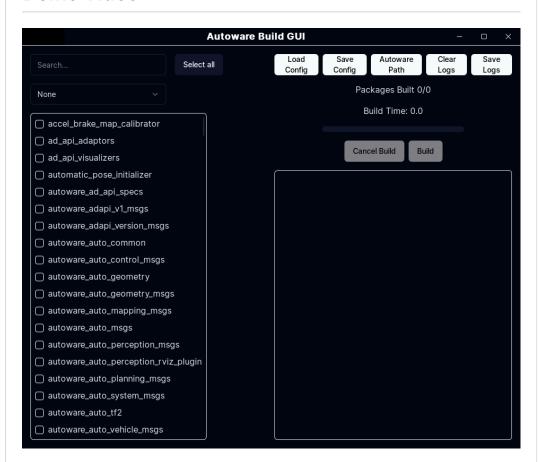
Introducing Autoware Build GUI: A User-Friendly Interface for Building Autoware Packages #3844

KhalilSelyan started this conversation in Show and tell



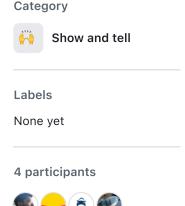
Demo Video



Key Points:

- **User-Friendly Interface:** A graphical interface that's intuitive and easy to navigate.
- Simplified Building Process: Build Autoware packages with just a few clicks.

Key Features:



- 1. Autoware Folder Path Setting: Easily set the Autoware folder path, allowing the app to locate available packages.
- 2. Automatic src Folder Creation: If there's no src folder, the app will create one, clone the repos inside of autoware.repos, and run rosdep install.
- 3. Config File Management: Save a configuration file with all selected packages and load it whenever needed.
- 4. Build Log Saving: Preserve your build logs by saving them to a file for future reference.
- 5. Minimal Setup Selections: Choose from setups like AWSIM, Planning Simulator, and Logging Simulator to tailor your build process.
- 6. **Build Cancel:** In case the user forgot a specific package, they can always cancel the build and re-do as needed.

Getting Started:

Prerequisite:

Before using the Autoware Build GUI, ensure you have completed the initial setup as outlined in the Autoware Development Environment Setup Guide. This step is crucial for the smooth functioning of the GUI, as it does assume you've gone through that specific step.

- 1. For general users: Download and install the provided deb file for a quick start.
- 2. For Developers: Developers can clone the repository, install the required packages, and run the development version of the app.

Autoware Build GUI Repository

Feedback & Contributions:

This tool was created to make the package building process more accessible and efficient for all Autoware users. Your feedback is invaluable! Whether it's a feature suggestion, a bug report, or general feedback, we're all ears. If you're a developer, feel free to dive into the code and make contributions. Together, we can make this tool even better for the entire Autoware community.





2 comments · 3 replies

Oldest

Newest



xmfcx on Sep 19, 2023 (Maintainer)

https://github.com/orgs/autowarefoundation/discussions/2581 could be utilized to find the dependencies automatically.



2 replies

Top



liuXinGangChina on Sep 19, 2023 (Collaborator)

Great work!



KhalilSelyan on Sep 20, 2023 (Collaborator) (Author)

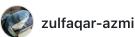
edited -

@xmfcx @mitsudome-r

When using the package above for planning simulator as an example, I wrote a small python script to parse the json file that gets output and extract the packages from it, After i run a build command using those packages these packages came out as missing from the necessary things to run planning simulator. as they didn't show up in the json file but were still needed to launch planning simulator (tried as well for logging simulator and it was the same result, these packages were missing)

```
missing_packages = [
"sample_sensor_kit_description",
"sample_sensor_kit_launch",
"sample_vehicle_description",
"sample_vehicle_launch",
"imu description",
"camera_description",
"vls_description",
"individual_params",
"autoware_auto_perception_rviz_plugin",
"bag_time_manager_rviz_plugin",
"rtc_manager_rviz_plugin",
"tier4_automatic_goal_rviz_plugin",
"tier4_calibration_rviz_plugin",
"tier4_control_rviz_plugin",
"tier4_datetime_rviz_plugin",
"tier4_debug_rviz_plugin",
"tier4_localization_rviz_plugin",
"tier4_perception_rviz_plugin",
"tier4_planning_rviz_plugin",
"tier4_screen_capture_rviz_plugin",
"tier4_simulated_clock_rviz_plugin",
"tier4_state_rviz_plugin",
"tier4_traffic_light_rviz_plugin",
"tier4_vehicle_rviz_plugin"
```

- the rviz plugins aren't necessary to actually launch but it does launch an rviz that is missing all the autoware plugins which i assume are also necessary for a normal use of autoware
- the other packages were required as the launch command would fail without them



zulfaqar-azmi-t4 on Sep 20, 2023 Collaborator

Thank you very much, the GUI is very useful in my opinion. This is my suggestions for the improvement

- 1. Allow user to add build flag. For example, having a text box and user can add the related build flag.
- 2. Allow selection of build type, for example Release or Debug etc.



1 reply



KhalilSelyan on Oct 4, 2023 (Collaborator) (Author)

I've added these features in the latest update, you can let me know if you have any feedback towards this

https://github.com/leo-drive/autoware-build-gui/releases/tag/v1.0.1

