

Application Description

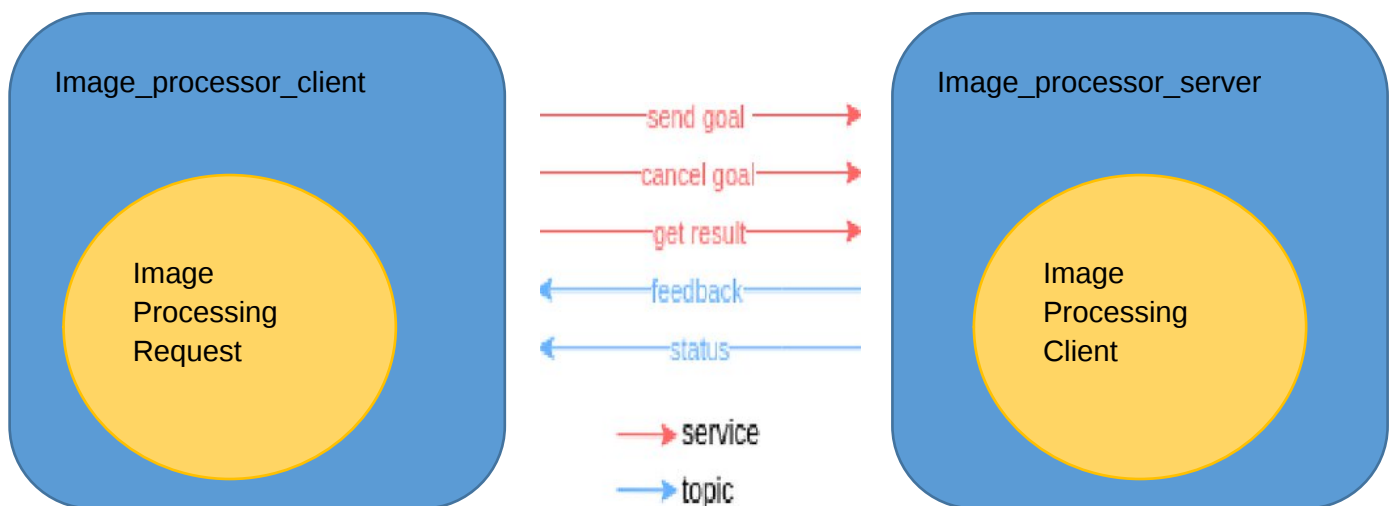
Project Overview

The project aims to demonstrate a ROS 2 application for performing computer vision tasks using an action server-client paradigm. The action server will perform a simple image processing task, such as edge detection, and the client will request the server to process an image.

Nodes

1. **SM_action_image_processor_server.cpp**: Action server node that processes images and performs edge detection.
2. **SM_image_processor_client.cpp**: Action client node that sends image processing requests to the server.

Interaction Diagram:



Build the project

```
colcon build --packages-select ros2_cv_action_project
```

Running the Project

Starting the Action Server

```
ros2 run ros2_cv_action_project image_processor_server
```

Sending a Request with the Action Client

```
ros2 run ros2_cv_action_project image_processor_client
```

Feel free to expand on this README with more specific details and guidelines to suit your project's needs.