

A decorative vertical bar on the left side of the slide. It consists of a dark teal background with a white vertical stripe and a thin orange vertical stripe. To the right of the bar are several orange circles of varying sizes, some overlapping the bar and others floating to the right.

POINT CLOUD LIBRARY AGENTIFICATION

Software Development Project

Iuri Andrade, Oscar Lima, Shehzad Ahmed

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PRESENTATION CONTENT

- Current Progress
- Software Demo
- Objective for the next sprint

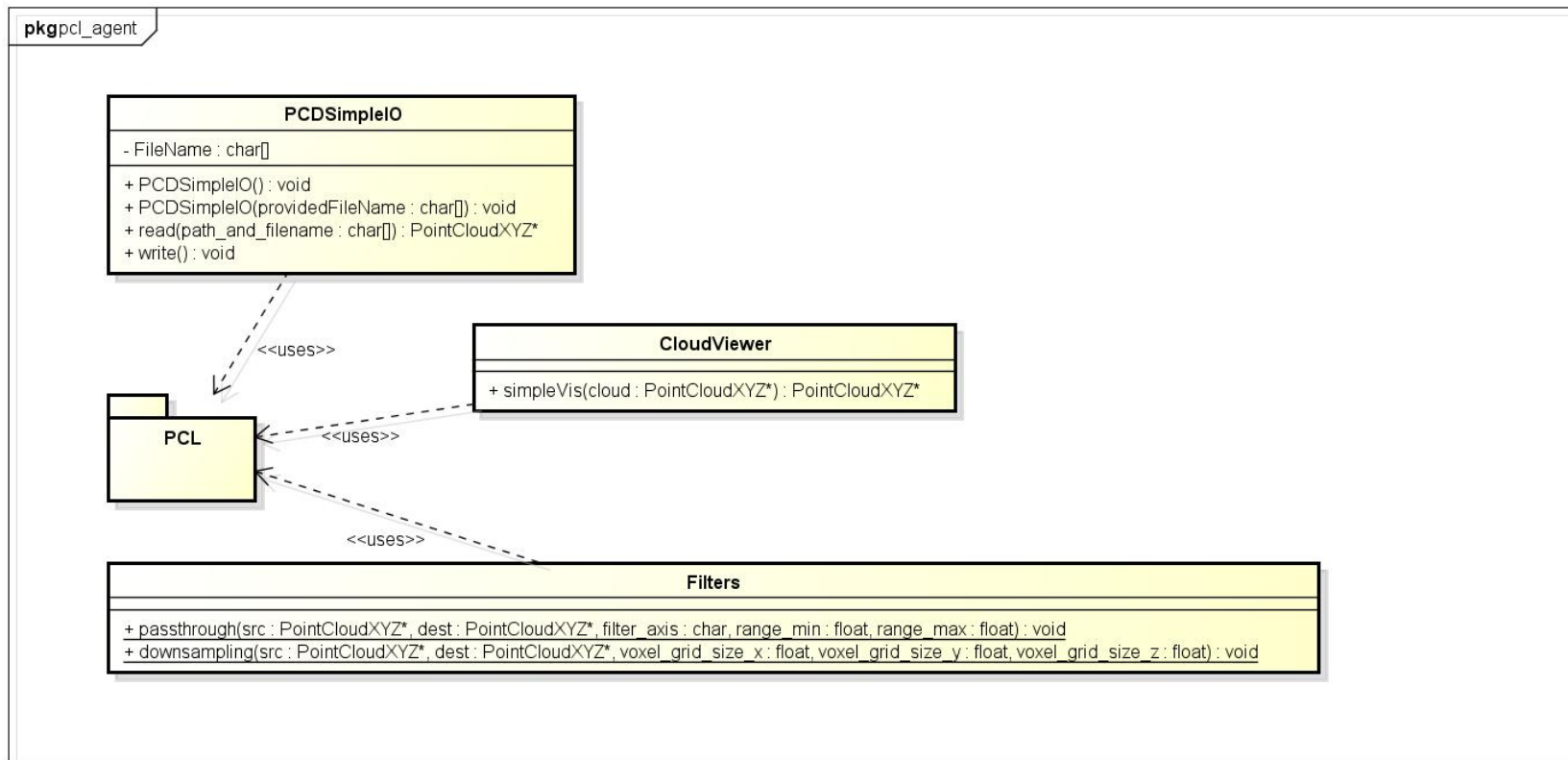


CURRENT PROGRESS

- Utilizing Point Cloud Library components
 - Data or Input sources
 - Point cloud file reader
 - Kinect Camera
 - Output sources
 - Point cloud file writer
 - Point cloud Viewer
 - Filter components
 - Pass through filter
 - Downsampling filter
 - Statistical outlier removal
 - Radius outlier removal



SOFTWARE DEMO

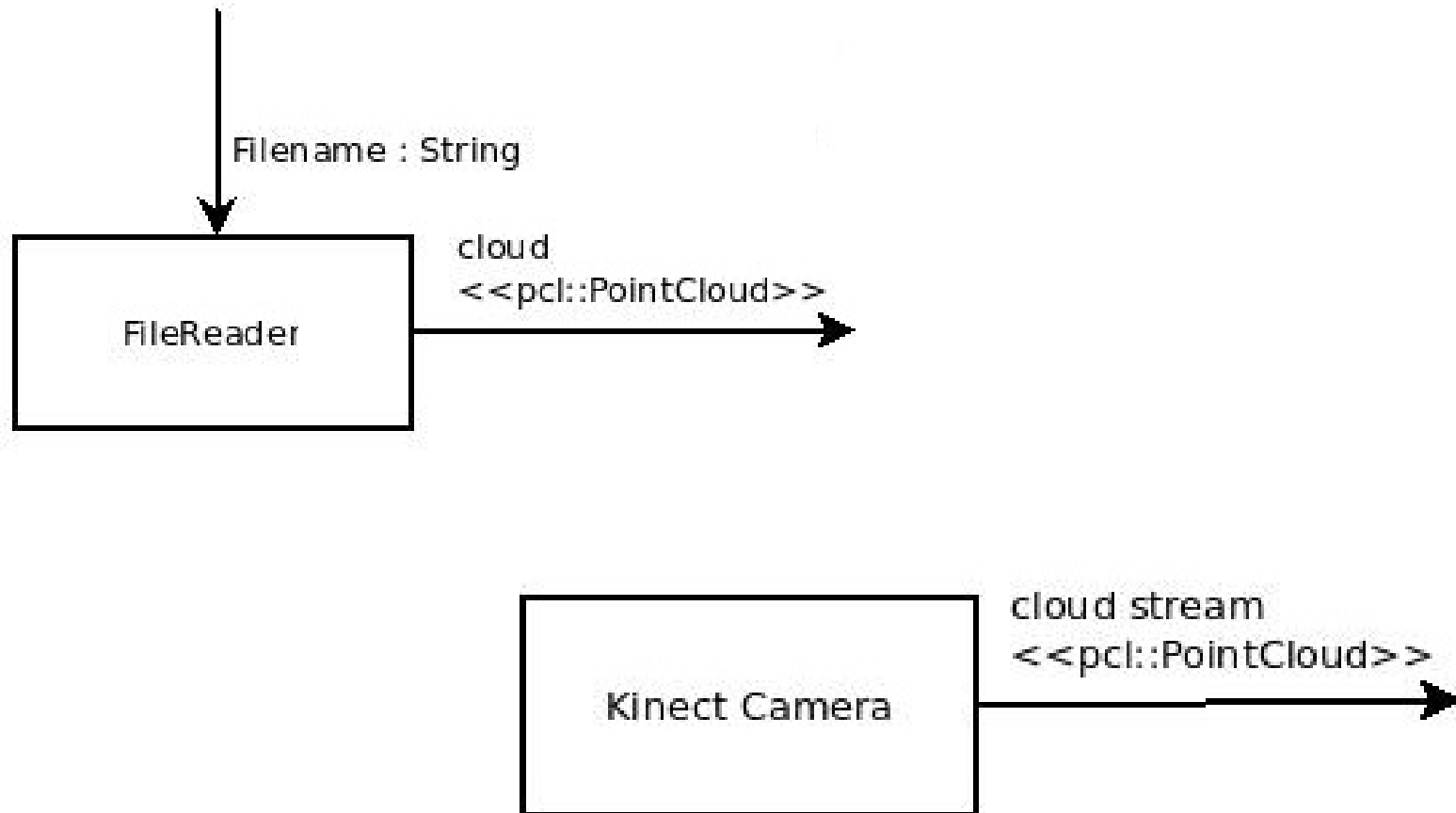


OBJECTIVE FOR THE NEXT SPRINT

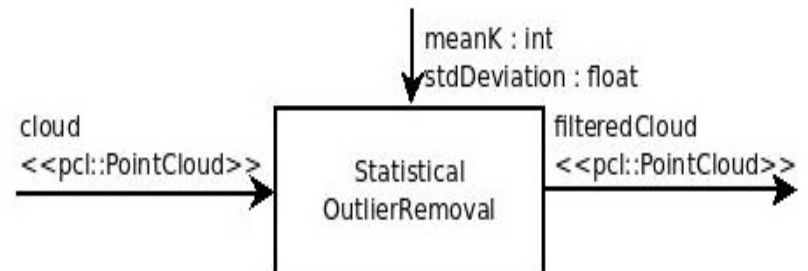
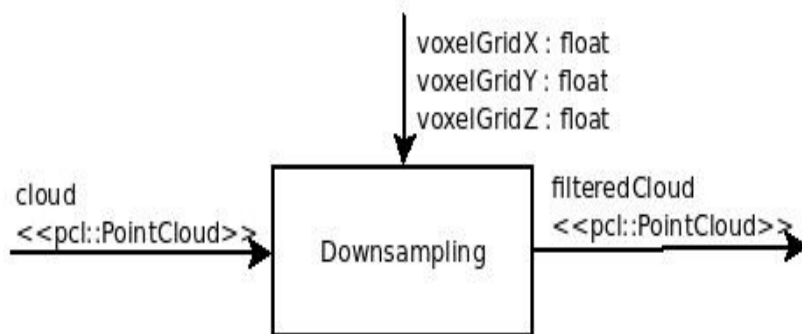
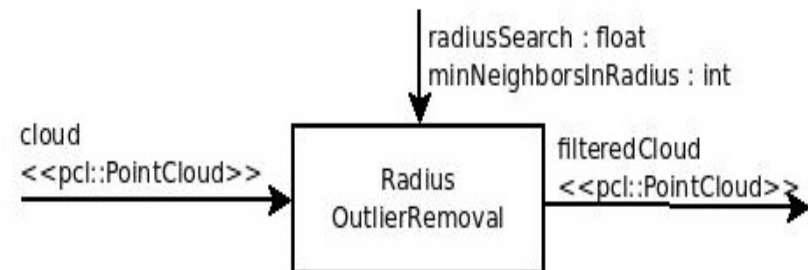
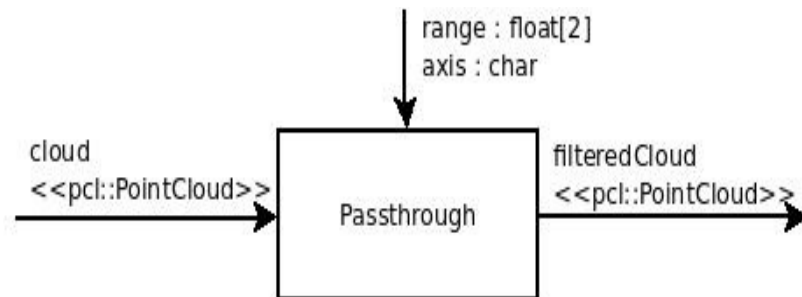
- Implement the functionalities as agents
 - Input
 - Configuration
 - Output
- Integrate agents in ROS
 - Wrap each agent with a ROS node
 - Input => Subscriber
 - Parameter Configurations
 - Output => Publisher
 - Create a Dynamic reconfigure node
 - Runtime configuration of agent parameters



AGENTS DIAGRAM



AGENTS DIAGRAM



AGENTS DIAGRAM

