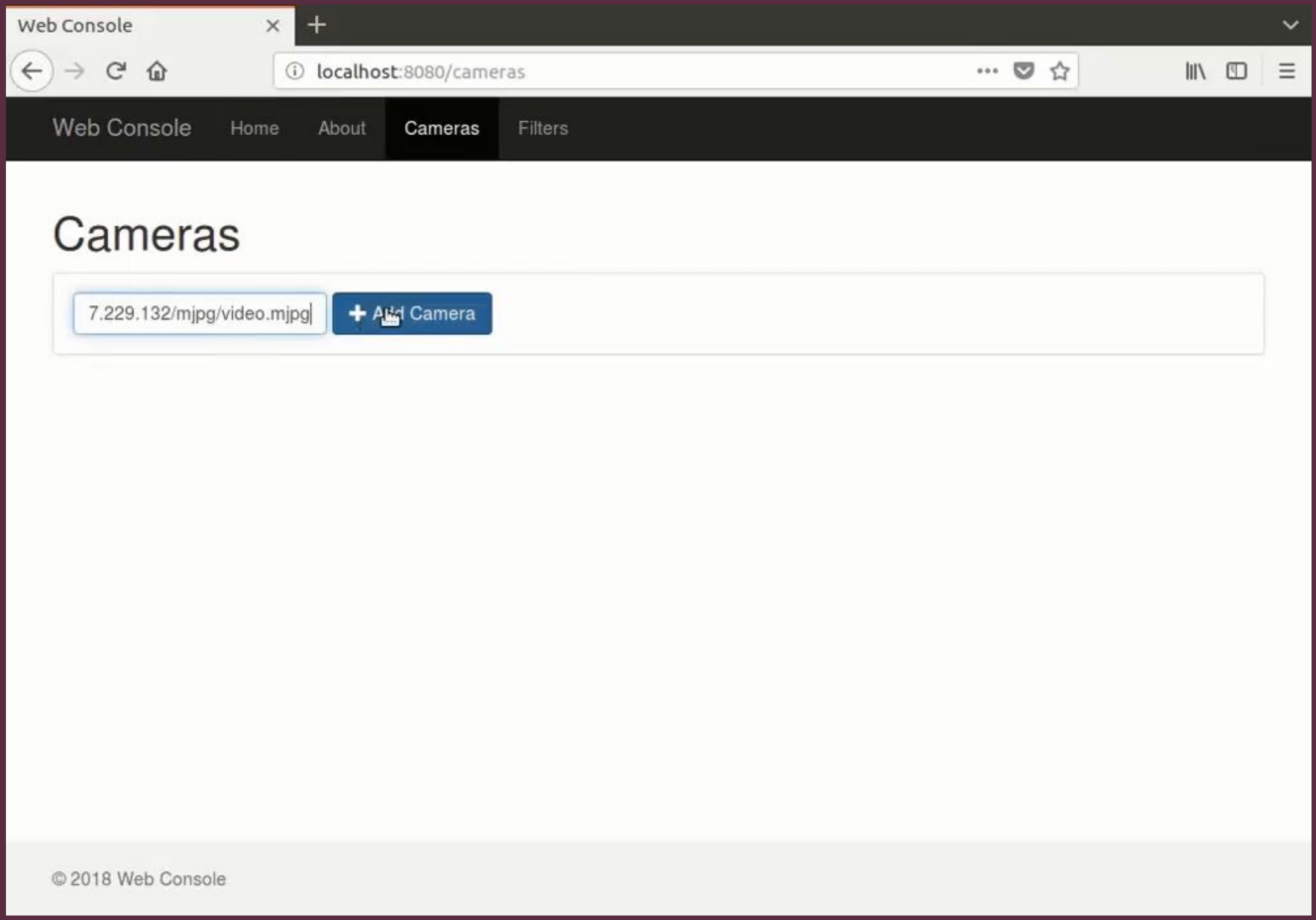
ROS Cameras Controller

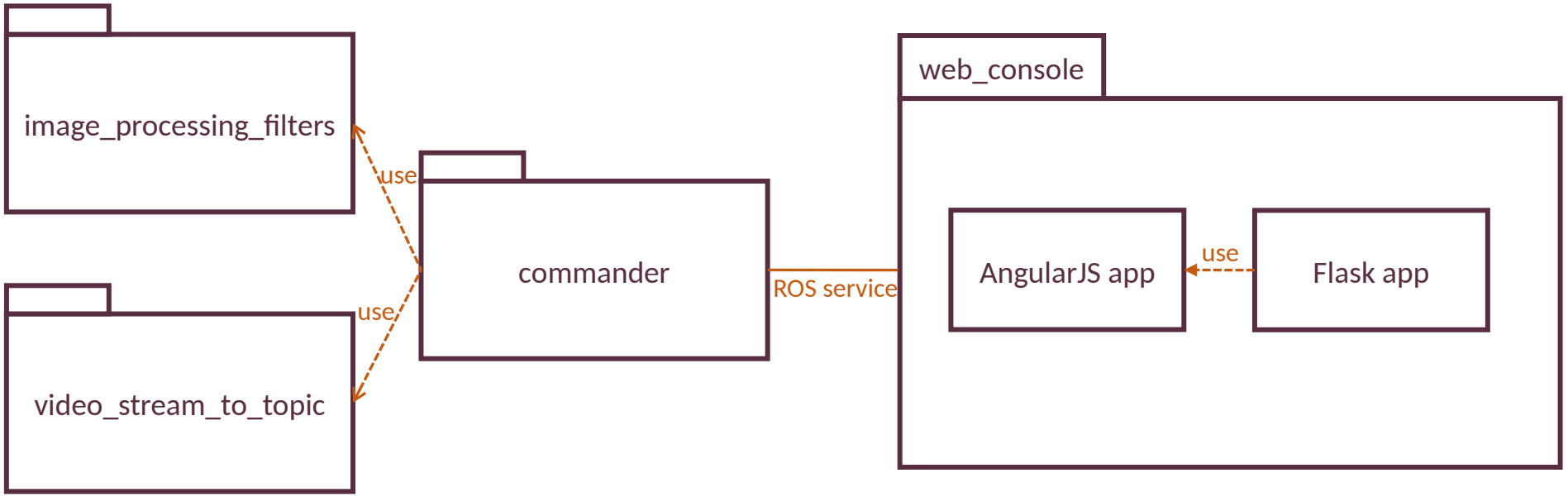
Ugnius Malukas @ugnelis

Project Idea

Connect and manage IP cameras in ROS environment


Web Console
localhost:8080/cameras
Web Console
Home
About
Cameras
Filters
Cameras
7.229.132/mjpg/video.mjpg
+ Add Camera
© 2018 Web Console

Architecture



Technologies

ROS (kinetic) – base of the project.

OpenCV (3.1+) – restreaming and processing.

Flask – server of the front-end app.

AngularJS (1.7) – front-end app.

npm – front-end package manager.

What to add / fix? (1)

For *commander*:

- More commands can be added,
- Database.

For *image_processing_filters*:

- Processing algorithms,
- Recognition algorithms (i.e., face recognition).

What to add / fix? (2)

For *video_stream_to_topic*:

- Support video strem formats (now is only *.mjpg).

For *web_console*:

- Improve Front-End app.

For whole project:

- Docker support.

Link

https://github.com/ugnelis/ros_cameras_controller

Thank you!