



MXCuBE meeting 2024-11-21

Dan Tiberiu Costin



- Moving from testing to production.
- Code evaluation
- Repository structure and development strategy



SampleView

Uses a Redis camera

Sample Changer - uses 2 tango devices

PX1Cryotong

inherits from

Cats90

PX1CatsMaint

inherits from

CatsMaint

Diffractometer - custom Smargon diffractometer

PX1MiniDiff

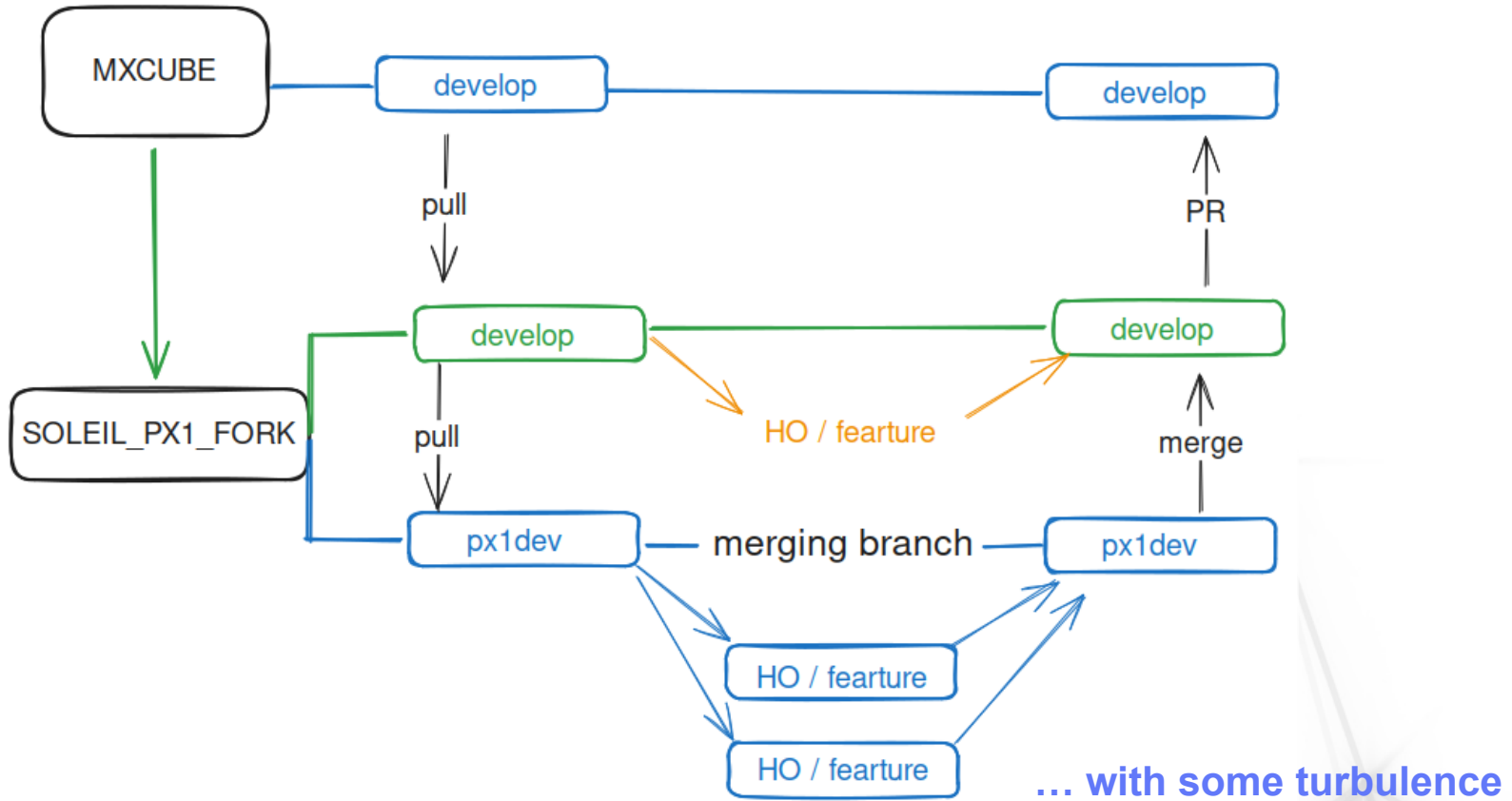
inherits from

GenericDiffractometer

- stepper zoom motor based on AbstractNState

- Configuring the zoom motor and sample centring into the latest version MXCuBE (develop).
- Integrating the collect procedure
- Setting up a secure user login

Similar to Git-Flow...



Pylint evaluation of mxubecore: 5.49/10

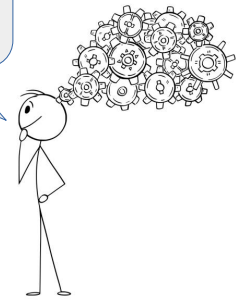
Issues

7078 mxubecore/HardwareObjects/XSDataMXv1.py
3199 mxubecore/HardwareObjects/XSDataAutoprocV1_0.py
1788 mxubecore/HardwareObjects/XSDataCommon.py
899 mxubecore/HardwareObjects/XSDataMXCuBEv1_4.py
733 mxubecore/HardwareObjects/XSDataMXCuBEv1_3.py
552 mxubecore/HardwareObjects/XSDataControlDozorv1_1.py
513 mxubecore/utils/units.py
306 mxubecore/HardwareObjects/QtInstanceServer.py
288 mxubecore/HardwareObjects/Cats90.py
271 mxubecore/HardwareObjects/ISPyBClient.py
268 mxubecore/model/queue_model_objects.py
268 mxubecore/HardwareObjects/Camera.py
251 mxubecore/HardwareObjects/MiniDiff.py
182 mxubecore/HardwareObjects/GenericDiffractometer.py
151 mxubecore/HardwareObjects/sample_centring.py
136 mxubecore/HardwareObjects/Microdiff.py

Small changes in these files will probably not pass the Pylint PR tests.

The screenshot displays the MXCuBE-Web (OSG) interface. The central window shows a microscope view of a sample. The left sidebar contains various control panels: 'Phase Control' (Transfer), 'Beam size' (35), 'Omega' (0.00), 'Kappa' (0.0), 'Kappa Phi' (0.0), 'Sample alignment' (X, Y, Z, Smpg-X, Smpg-Y), 'Sample Horizontal' (0.00), 'Sample Vertical' (0.00), and 'Focus' (0.00). The top status bar shows: Energy: 12.670 keV, Resolution: 2.00 Å, Transmission: 10.0 %, Wavelength: 9.80 Å, Detector: 405.0 mm, Flux: 2.50e+11 ph/s. The right sidebar shows status indicators: READY, READY, CLOSED, OPEN, and 38.1 s. A 'Wash' button is highlighted in blue.

Could use a wash button !



Thank you !



