

DQM APP: CURRENT STATUS

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Features

- It **takes data from DQM** related to a selected telescope (using an HTML parser library)
- It **notifies** when the telescope doesn't send data for a certain period of time
- It sets a **daily reminder** for students to check the telescope (ELOG)
- It **shows** the most important **plots** related to the selected telescope
- It offers a **docs section**, which contains useful information about the ELOG, the MRPCs and the DQM

Notifications

- the user could set a **daily alarm** that reminds to check the telescope
- the alarm **is removed** in case a daily ELOG entry is already present
- when the telescope doesn't send data (**yellow/red status**) or others parameters are not reliable the app should show a **notification** to the user
- another useful feature could be a "**watcher**" of some data offered by the DQM (temperature, pressure or rate)

Plots

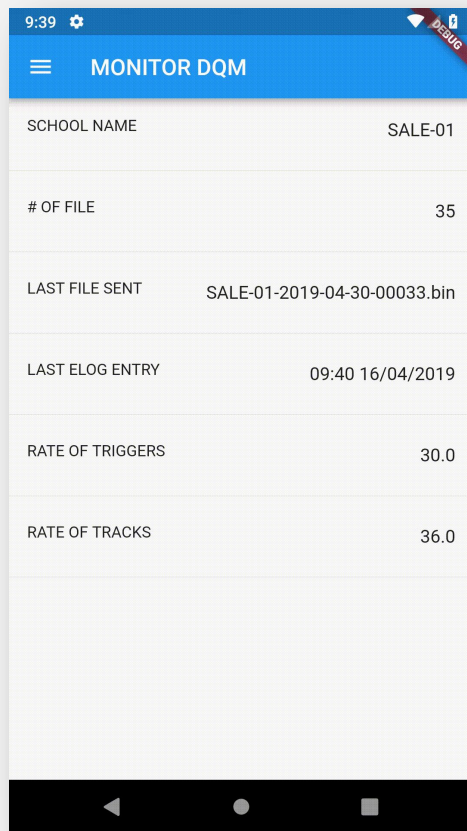
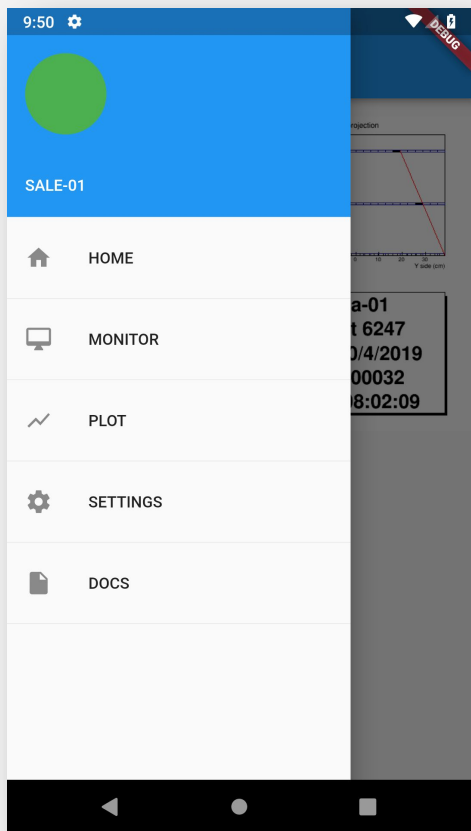
- the app should show the most important DQM plots
 - rate over time
 - weather data
 - multiplicity
 - time of flight
 - track length
 - phi and theta

Current project status

- ✓ It shows DQM data (refreshable) 
- ✓ It shows telescope status (home section) 

To do list:

- ✗ plots and notifications not yet functioning
- ✗ docs section is empty
- ✗ error handling (for example issues related to network connection, background updates, notifications)



some screenshots from the last version

Information about framework

Flutter

- Flutter is a rich, cross platform framework to develop applications
- <https://flutter.dev/>

Dart

- Flutter apps are written in Dart, an object-oriented language very similar to Java and easy to understand
- <https://www.dartlang.org/>
- <https://pub.dartlang.org/>

Links

- GitHub repository
 - https://github.com/miriamamendola/dqm_monitor_app/tree/master
- last stable release
 - https://drive.google.com/open?id=1A8afcqNw_FzmITI8-Q0wHP3dOc8WF4C

suggestions and/or objections are welcome!