ClockAlarm

Loïc Charrière, Samuel Gauthier
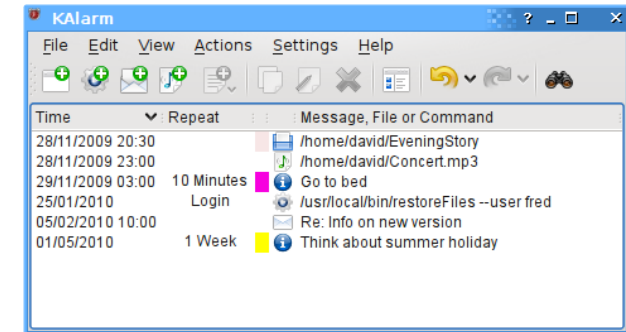
13.06.17 Bern University of Applied Sciences

Project Goals
Technologies
Development challenges
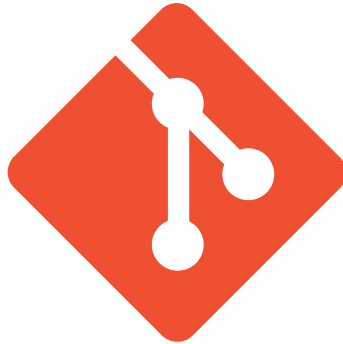Demo
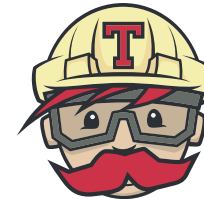
KAlarm

Linux only
Binary DB

Alert.py

```python
import abc

import PyQt5.QtCore as pyqt


class AlertMeta(type(pyqt.QObject), abc.ABC):
    """Abstract Metaclass inheriting QObject's metaclass"""
    pass


class Alert(pyqt.QObject, metaclass=AlertMeta):
    """Abstract Alert class representing alerts.

    Attributes:
        trigger_time: The trigger time of the alert.
        id: The identification number of the alert in the alert.
        Set up when added to the database.
    """

    timeout = pyqt.pyqtSignal('PyQt_PyObject')

    def __init__(self, trigger_time):
        """Inits Alert class with the trigger time given in arguments."""
        super(Alert, self).__init__()
        self.trigger_time = trigger_time
        self.id = None

    # ...

    @abc.abstractmethod
    def triggered(self):
        """Triggers the alert action."""
        return
```
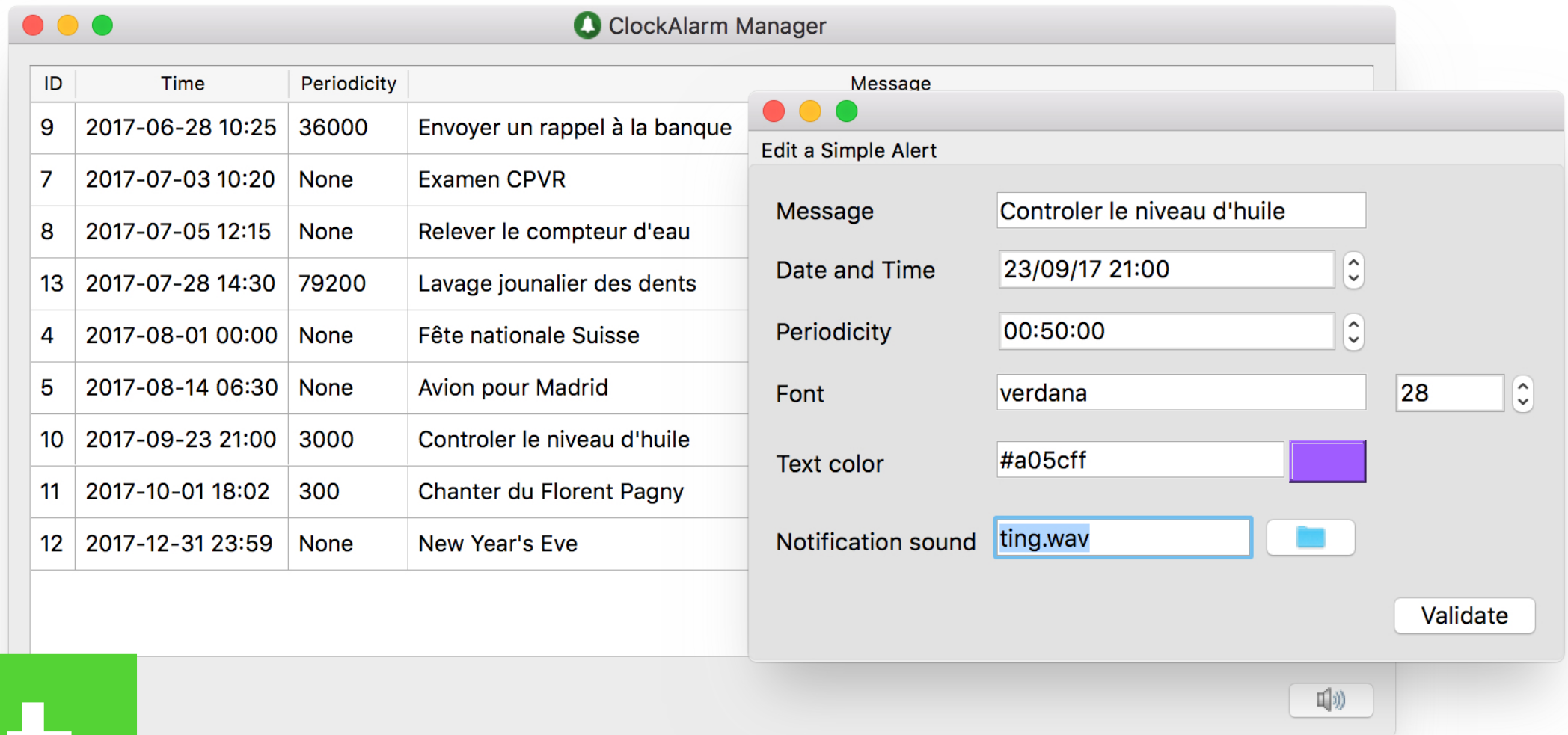
alertsDB.json

```json
{
    "alerts": {
        "4": {
            "color_hex": "#ffff00",
            "font_family": null,
            "font_size": null,
            "message": "Fête nationale Suisse",
            "periodicity": null,
            "sound": "bloop.wav",
            "trigger_time": 1501538420
        },
        "5": {
            "color_hex": "#ff6769",
            "font_family": null,
            "font_size": null,
            "message": "Wake Up",
            "periodicity": 10,
            "sound": null,
            "trigger_time": 1557846000
        },
        "7": {
            "color_hex": null,
            "font_family": null,
            "font_size": null,
            "message": "Examen CPVR",
            "periodicity": null,
            "sound": null,
            "trigger_time": 1499070027
        }
    }
}
```

ClockAlarm Manager

ID	Time	Periodicity	Message
9	2017-06-28 10:25	36000	Envoyer un rappel à la banque
7	2017-07-03 10:20	None	Examen CPVR
8	2017-07-05 12:15	None	Relever le compteur d'eau
13	2017-07-28 14:30	79200	Lavage jounalier des dents
4	2017-08-01 00:00	None	Fête nationale Suisse
5	2017-08-14 06:30	None	Avion pour Madrid
10	2017-09-23 21:00	3000	Controler le niveau d'huile
11	2017-10-01 18:02	300	Chanter du Florent Pagny
12	2017-12-31 23:59	None	New Year's Eve

Edit a Simple Alert

Message	Controler le niveau d'huile
Date and Time	23/09/17 21:00
Periodicity	00:50:00
Font	verdana 28
Text color	#a05cff
Notification sound	ting.wav

Validate

Feed the cat

DEMO