

Alert Notification - SDE 1/2

Input :

Given a log file where there is a continuous stream of data. Each data is tagged with any of the below type and timestamp:

- Info
- Warning
- Critical
- Blocker

Configuration :

- There are a list of users which are subscribed to each or any of the above type. This list is present in the config or database.
- For each type (Info, warning etc) we can set below data in config / database Type,Frequency,duration,wait-time (e.g. Critical,10,100 sec, 100 sec)

Means if 10 critical events occurs in 100 sec then notify user and wait for 100 sec

and start counting of that type event after 100 sec.

Functional requirements :

- For any of the above type the list of subscriber should be notified based on the information present in the config.

Technical Requirements :

- Separation of concerns
- Follow OO principle
- If using database then design schema
- Shared resource should be thread safe

Input format :

2019-01-07 14:52:33 **Warning** data

2019-01-07 14:52:34 **Critical** data

2019-01-07 14:52:35 **Info** data

2019-01-07 14:52:36 **Critical** data

2019-01-07 14:52:37 **Critical** data

2019-01-07 14:52:38 **Critical** data

2019-01-07 14:52:39 **Critical** data

2019-01-07 14:52:40 **Critical** data

2019-01-07 14:52:41 **warning** data

2019-01-07 14:52:42 **Critical** data

2019-01-07 14:52:43 **warning** data

2019-01-07 14:52:44 **Critical** data

Extension :

Configuration :

- Suppose each type is associated with mode of communication in the config

Info=sms

Critical=sms,phone,email

- Design notification module where based of type user should be notified via all the modes present in the config.