A picture containing animal, brush

Description automatically generated

CABAS

**C**oronavirus **A**larm **B**y **A**rea **S**ystem

**Description:**

The main service of the CABAS (Coronavirus Alarm By Area System) used to send phone alerts to the citizens, when a Coronavirus cases go through any threshold in a specific area of the country.

**The process:**

The service has access to a citizen data bank. When the service gets a request to send alarm, with 1 or more area numbers and message format type (according to severity) - then the service should send alarm to all the citizens in this area(s).

**Data record**:

The data per citizen contains the following data:

ID

First name

Last name

City

Phone

Guardian ID (Optional)

**Output:**

Request that contains the message to the recipient.

Message should contain the citizen’s name and have different format according to the alarm severity.

The response status should be reported to a log.

\*The request must reach a mock service that is responsible for notification

**Notes:**

* When a citizen has a guardian, the message should be sent to both the citizen and his guardian.
* Each area contains list of cities.
* The system is generic and can be applied in different countries.

**Implementation:**

The service should be written in Java + Spring.

Data can be stored in any DB or FS.

Focus on clean and efficient code.