CS411 Team Assignment 4: Database Documentation & Cache

Data Documentation:

We are going to use MongoDB as our database

Commented JSON Schema:

```
{
        "_id": "id number",
        "created_at": "date time",
        "crisis_alertLevel": "color",
        "crisis_population": " number ",
        "crisis_relatedGDACSResources": [
        {
        "dc_title": "description title",
        "dc_type": "description type",
        "rdf_resource": "reference webpage"
        },
        ],
        "crisis_severity": "number",
        "crisis_vulnerability": "number",
        "dc_description": "description",
        "dc_subject": [
                "type",
                # earthquakes, floods, cyclones, volcanoes
         ],
        "gn_parentCountry": [
                "country"
        ],
        "rdfs_seeAlso": "web page",
        "updated_at": "date time"
}
```

We will use "_id", "crisis_alertLevel", "dc_subject", "gn_parentCountry" as keys

Cache (plan):

In the database (mongoDB)

Store API calls temporarily in cache according to their "_id"

Refresh the cache every two days

Sequence Diagram: