

CS411 Team Assignment 4: Database Documentation & Cache

Data Documentation:

sqlite

We are going to use ~~MongoDB~~ as our database

New:

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"
}
```

Search

"floods"

"Earthquakes"

"cyclones"

"Volcanoes"

"Volcanoes"

"floods" (JSON)

```
{
  "title": "...",
  "description": "...",
  "Type": "floods",
  "Country": "...",
  "Alert Level": ...
}
```

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

Cache (plan):

In the database (~~mongoDB~~) **sqlite**

Store API calls temporarily in cache according to their ~~"_id"~~ **type**

Refresh the cache ~~every two days~~

every day

Sequence Diagram:

