

Assignment (basic JSON)

Create an application that processes JSON documents. Application gets input from HTTP POST service call (RESTful API).

Elements must be inserted into a database and validated. Create tables that correspond to the example provided at the end of the page.

After successful execution some info on the process should be stored in the "document_report" table:

1. execution start time
2. doctor id
3. error – if any error happens during execution

Project should use latest Java, Spring Boot, ORM... For build tool you can use Maven or Gradle. You can document HTTP service if you want with Swagger or Spring REST Docs and also expose querying doctors, patients, and a list of diseases if you want.

Writing good tests is a plus(look at spring test, mockito, in memory db for testing)!

Sample JSON:

example - input doctor JSON

```
{
  "id": "100",
  "department": "marand",
  "patients": [
    {
      "id": "1",
      "first_name": "John",
      "last_name": "Smith",
      "diseases": [
        "nice_to_people",
        "long_legs"
      ]
    },
    {
      "id": "2",
      "first_name": "Jenny",
      "last_name": "Cox",
      "diseases": [
        "used_to_have_dredds",
        "nice_to_people"
      ]
    },
    {
      "id": "3",
      "first_name": "Martin",
      "last_name": "Lewis",
      "diseases": [
        "chocaholic",
        "great_haircut"
      ]
    }
  ]
}
```