

**ООО “НатЛекс”**

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**Test Task for backend developer**

Xls file contains list of geological sections. Section has structure:

```
{
  name: "Section 1",
  geologicalClasses: [{
    name: "Geo Class 1",
    Code: "GC1"
  }, ...]
}
```

We need CRUD rest api to get sections.

We need api to import/export xls file that contains sections

Example:

Section name | Class 1 name | Class 1 code | Class 2 name | Class 2 code

Section 1|Geo Class 1|GC1|Geo Class 2|GC2

Section 2|Geo Class 2|GC2

Section 3|Geo Class 5|GCX7

Create web based application for processing XLS files.

**Requirements**

- 1) small restAPI web-application
- 2) all data (except files) should be in JSON format
- 3) should have API for adding a job for file parsing ( "register-job")
- 4) "register-job" should return id of the Job
- 5) File should be parsed in asynchronous way, result should be stored id db
- 6) should have API for getting result of parsed file by Job ID
- 7) should have API for searching results by name, code
- 8) Basic Authorization should be supported (optional)
- 9) Page for jobs adding and result view (optional)

**Technology stack(optional)**

- 1) Spring
- 2) Hibernate
- 3) Spring Data
- 4) gradle/maven