

000 «Натлекс»

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Test Task for backend developer

1) Add REST CRUD API for Sections and GeologicalClasses. Each Section has structure:

- 2) Add API GET /sections/by-code?code=... that returns a list of all Sections that have geologicalClasses with the specified code.
- 3) Add APIs for importing and exporting XLS files. Each XLS file contains headers and list of sections with it's geological classes. Example:

Section name	Class 1 name	Class 1 code	Class 2 name	Class 2 code	Class M name	Class M code
Section 1	Geo Class 11	GC11	Geo Class 12	GC12	Geo Class 1M	GC1M
Section 2	Geo Class 21	GC21	Geo Class 22	GC22		
Section 3	Geo Class 31	GC31			Geo Class 3M	GC3M
Section N	Geo Class N1	GCN1	Geo Class N2	GCN2	Geo Class NM	GCNM

Files should be processed asynchronously, results should be stored id DB.

- API POST /import (file) returns ID of the Async Job and launches importing.
- API GET /import/{id} returns result of importing by Job ID ("DONE", "IN PROGRESS", "ERROR")
- API GET /export returns ID of the Async Job and launches exporting.
- API GET /export/{id} returns result of parsed file by Job ID ("DONE", "IN PROGRESS", "ERROR")
- API GET /export/{id}/file returns a file by Job ID (throw an exception if exporting is in process)

Requirements:

- Technology stack: Spring, Hibernate, Spring Data, Spring Boot, Gradle/Maven.
- All data (except files) should be in JSON format.
- In export and import use Apache POI for parsing.

