File Storage REST service

Let's imagine we are developing an application that allows us to store files in the cloud, categorize them with tags and search through them.

In this test assignment let's implement the smaller subset of the described functionality. We won't store the actual file content, only their name and size at the moment.

Design a web-service (REST) with an interface described below.

1. Upload

```
POST /file

{
    "name": "file_name.ext"
    "size": 121231  # size in bytes
}

returns status 200 and body:

{
    "ID": "unique file ID"
}

or status 400 with error if one of the field is absent or has incorrect value (like negative file size)

{
    "success": false,
    "error": "error description"
}
```

2. Delete file

```
DELETE /file/{ID}
```

```
returns status 200 and body
```

```
{"success": true}

or 404 and body

{
    "success": false,
    "error": "file not found"
}
```

3. Assign tags to file

```
POST /file/{ID}/tags

["tag1", "tag2", "tag3"]

returns status 200 and body

{"success": true}
```

4. Remove tags from file

```
DELETE /file/{ID}/tags
["tag1", "tag3"]

returns status 200 if all OK and body
{"success": true}

returns status 400 if one of the tags is not present on the file and body
{
    "success": false,
    "error": "tag not found on file"
}
```

5. List files with pagination optionally filtered by tags

```
GET /file?tags=tag1,tag2,tag3&page=2&size=3
```

Here:

- tags [optional] list of tags to filter by. Only files containing ALL of supplied tags should return. If tags parameter is omitted - don't apply tags filtering i.e. return all files.
- page [optional] the 0-based parameter for paging. If not provided use 0 (the first page)
- size [optional] the page size parameter. If not passed use default value 10.

returns status 200 with body:

```
"total": 25,
"page": [
{
        "id": "ID1",
        "name": "presentation.pdf",
        "size": 123123,
        "tags": ["work"]
},
        "id": "ID2",
"name": "file.mp3",
        "size": 123123,
        "tags": ["audio", "jazz"]
},
        "id": "ID3",
        "name": "film.mp4",
        "size": 123123,
"tags": ["video"]
}
]
```

Here:

 total - the total amount of files that satisfy the provided list of tags or total files count if no tags provided page - the actual records to show on the current page.

Bonus

These items are not obligatory for implementation but if you have time and desire - you could work on them as well once you complete the main assignment. Would be good additional points for your candidature.

- at the upload automatically add tag "audio" / "video" / "document" / "image" etc. based on extension
- in the listing endpoint handle optional parameter q that will apply a search over file name. I.e. if you pass GET /file?q=aaa this will yield files
 "aaaaaaa.txt", "bbbb aaa ccc.zip", "AaAA.mp3" etc.
- Nice to have some unit / integration tests added.

Requirements

- As a data storage, please use Elasticsearch.
- As a main framework please use Spring Boot.
- Please use Java 11 and Maven for this project
- Use GitHub, GitLab for your development at your choice. You will send a link to the final repo with code for check.
- Provide a README.md file with a description of the project, how to run it etc.
- Try to use best code practices, apply commenting on code when necessary.
- The recommended implementation time for this project is 2 days.