

Seminar #6

Martin Ledvinka

1 Goal

Learn how to write and use REST services.

2 Getting Ready

- Download the project from https://cw.fel.cvut.cz/wiki/_media/courses/b6b33ear/seminar-6-problem.zip,
- Open the project in your favorite IDE,
- Deploy the application,
- Install the *Postman* REST client for Chrome or *RESTClient* for Firefox.

At the end of the current week, the branch *WS2017-seminar-6-solution* in repository <https://gitlab.fel.cvut.cz/ear/reporting-tool-seminars> will be available with a solution.

3 Important Classes

Today, the following classes will be of importance:

- *ReportController*,
- *TagController* (to be created),
- *ReportControllerTest*,
- *TagControllerTest* (to be created, optionally),
- *TagService*.

4 Task 0 (together): Report Filtering by Tag

`http://localhost:8080/ear-rt/rest/reports` returns all reports in the system. Now we want to be able to filter the reports by a tag, so that `http://localhost:8080/ear-rt/rest/reports?tag=MyTag` will return only reports with the tag *MyTag*.

- Implement tag filtering in *ReportController*,
- Create tests for the filtering.

5 (1pt) Task 1: Tag Controller

We want to be able to get all tags in the system and to create new tags. All the necessary methods are available in *TagService*.

1. Create *TagController*,
2. Implement the following REST endpoints:
 - GET /tags – get all tags,
 - POST /tags – create a new tag.
3. Verify correct functionality using either of the following:
 - A REST client, e.g. Postman, RestClient, cURL,
 - A test.

6 Resources

- <https://spring.io/guides/gs/rest-service/>
- <http://www.restapitutorial.com/httpstatuscodes.html>