



TGM - HTBLuVA Wien XX
IT Department

Service Oriented Architecture and Restful Webservice

Dezsys 08

Authors: Siegel HANNAH & Nachname2 VORNAME2

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Contents

1	Working time	2
2	Aufgabenstellung	2
3	Knowledge Base	2

1 Working time

Estimated working time

Task	Person	Time in minutes
Reading into the Topic, Deciding onto Frameworks	Coworker1	120
Creating the Knowledge base	Coworker1	120
Inserting Test-Data into the Knowledge base	Coworker1	60
Testing the Performance of the Knowledge base	Coworker1	60
RestFul CRUD Operations	Coworker1	120
	Coworker2	120
Generate SOA Webservice	Coworker1	120
Include SOAP for SOA Webservice	Coworker1	60
Generate WSDL File	Coworker1	60
Generate Website for using RestFul Webservices	Coworker2	120
Generate Client for SOA Webservice	Coworker1	120
Document Datatransfer with SOAP	Coworker2	90
Testing	Coworker1	120
	Coworker2	120
Documentation	Coworker1	120
Total	Coworker1	XXX
	Coworker2	XXX
Total Team		4 hours

2 Aufgabenstellung

3 Knowledge Base

For the Knowledge Base we decided to use Hibernate and JPA.

We were using IntelliJ and therefore it was quite easy.

At first, we were making a new project, which has already a Hello World Webservice. We copied the hibernate config file from the *Westbahn* project into the `src` folder.

Also, we had to add all the needed libraries, such as the mysql connector and the hibernate libraries.

The Knowledge Base class can be seen in Listing 1.

Listing 1: KnowledgeBase entity class

```
// import statements
```

```
@Entity
public class KnowledgeBase {
    @Id
```

```
@GeneratedValue
private Long ID;

@Column(unique=true)
@Size(min=10, max=500)
private String text;

@Column(unique=true)
@Size(min=10, max=50)
private String topic;

    // constructor, getter and setter
}
```

References

- [1] **Who**, When
url
last used: dd.mm.yyyy, hh:mm
- [2] **Mister Super-genious**, Answer from 20.01.2015
<http://www.stackoverflow.com/question>
last used: 22.10.2014, 21:00