



Summer Term 2011

Softwareentwicklung in der Geoinformatik Praxis

Dynamic Mapper

End of Term Assignment

Bernd Resch

01 June 2011



End of Term Assignment

- Create an executable Java class called "*DynamicMapper*", which integrates data from the following sources and displays them using *Google Maps Static API*:
 - ◆ OGC WFS
 - ◆ PostgreSQL database

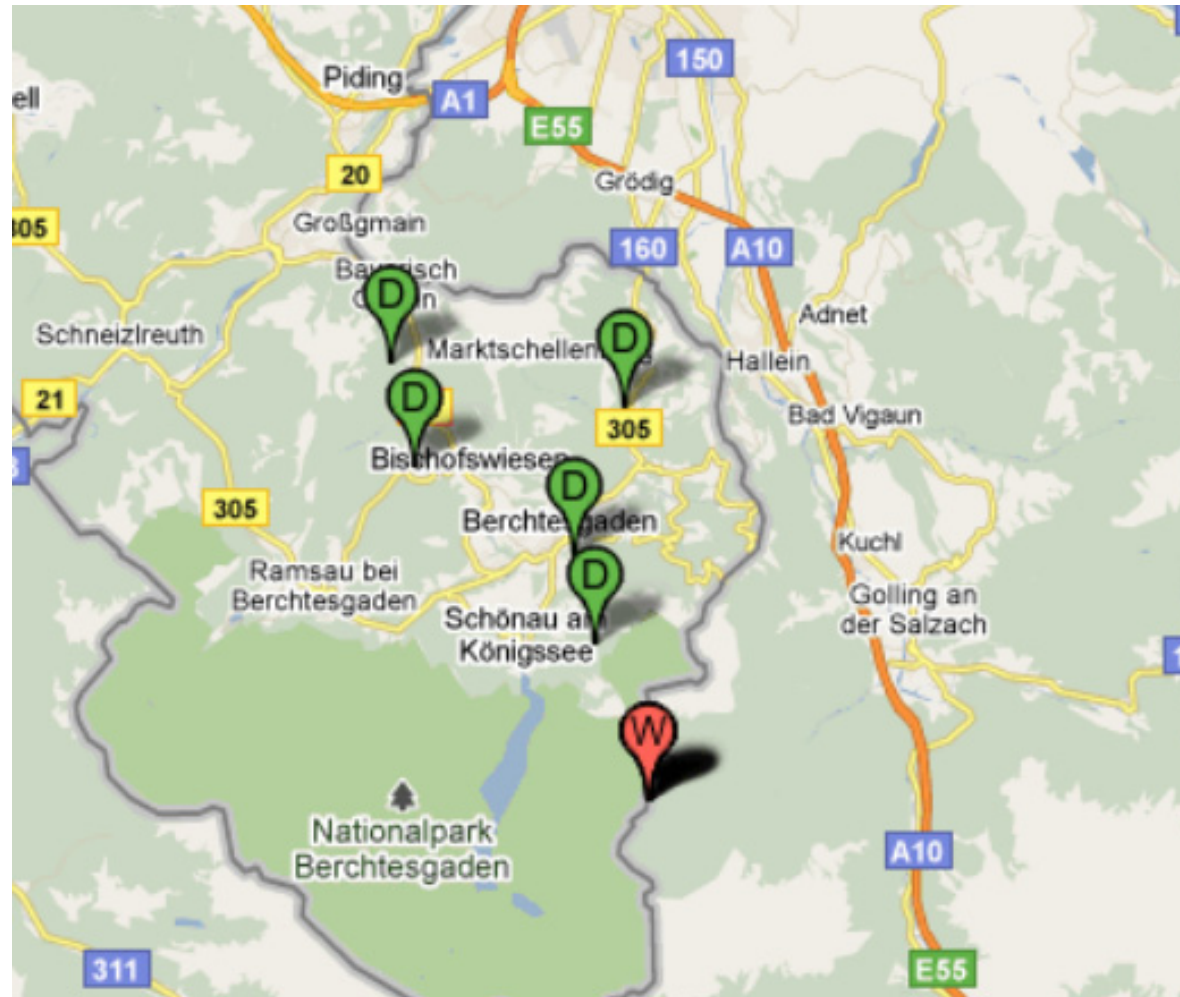
End of Term Assignment

- WFS Connection:
 - ◆ <http://genesis-fp7.researchstudio.at/geoserver/wfs>
 - ◆ FeatureType: *iSPACE:SWE_iSOS*
 - ◆ *Use the WFS query from unit 5, but limit the returned data set to 5 rows*

End of Term Assignment

- Database Connection:
 - ◆ Host: 62.218.44.73
 - ◆ Database name: sos
 - ◆ User: geostudent
 - ◆ Pwd: geo123
 - ◆ *Use the SQL query from unit 6, but limit the returned data set to 5 rows*

End of Term Assignment



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- Hints:
 - ◆ Use the jar files contained in the following ZIP file:
http://berndresch.com/download/uni/ss11/end_of_term_assignment_jars.zip
 - ◆ Make extensive use of object-oriented programming paradigms
 - ➔ one Java class for each component (modularity!)

End of Term Assignment

- Hints – possible solution:
 - ◆ Use the *WFSConnector* and the *JDBCConnector* classes from previous exercises
 - ➔ the method calls have to return the queried data – use the according return types
 - ◆ Extracting the values from the WFS response will require String handling operations
<http://download.oracle.com/javase/6/docs/api/java/lang/String.html>

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- Hints – possible solution:
 - ◆ With the returned data, dynamically construct a URL according to the Google Maps Static API
<http://code.google.com/apis/maps/documentation/staticmaps>
 - ◆ Launch a web browser (directly from the Java programme) to display the URL contents

End of Term Assignment

- Put all the java files in a package named "end-of-term-assignment_<name1>_<name2>"
- Submission by email (bernd.resch@sbg.ac.at):
 - ◆ Java code files
 - ◆ Including inline documentation of key parts
 - ◆ Short description of approach (directly in the email)
Submission:
 - ◆ Groups of 2 persons
 - ◆ Deadline 15 July 2011



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