

Fakultät für Informatik Professur Datenverwaltungssysteme

Datenbanken und Web-Techniken Exercise 3: XML Access Techniques 1: SAX

SAX Simple API for XML

- No formal specification
 - Java implementation is de facto standard
- Provides a set of methods to access XML documents with an applicable parser
- Features:
 - event driven
 - pipeline concept
 - independent events
 - events fired by recognizing syntactic structures
- Usage:
 - read-only access
 - no structure change
 - large XML files



Tasks Hints and more description follow on the following pages

SAX Test Task:

- 1.Load the provided SAXTest-Project in your IDE
- 2.Modify SAXTest.java to write pizza information from pizzenExample.xml to console log SAX Usage Task:
- 3.Load the provided PizzaSAX-Project in your IDE
- 4. Modify the project to load the pizza data from pizzen Example.xml by using SAX

SAX Test Task 1: Load the provided SAXTest-Project in your IDE

- If you don't have a running NetBeans IDE, follow the Preparation Task 2 from exercise 2
- Download and extract the provided SAXTest.zip
- Open your NetBeans IDE
- Select File → Open Project... and choose the SAXTest folder
 - there should be a different folder icon (brown coffee pot icon or NetBeans project icon)

SAX Test Task 2: Modify SAXTest.java to write pizza information from pizzenExample.xml to console log

- Open the file SAXTest.java in the editor
- Read through the code (and the comments) and try to understand, what is done
- Modify the PizzaHandler.startElement() to print the attributes of all pizzas from pizzenExample.xml
 - XML file is located in resources folder
- Compile and run your project and check the console log
 - take a look at the XML file to verify your output

SAX Usage Task 3: Load the provided PizzaSAX-Project in your IDE

- Download and extract the provided PizzaSAX.zip
- Open the PizzaSAX project in your NetBeans IDE
 - there should be a different folder icon (blue globe icon or NetBeans project icon)
 - if the project is not recognized, go back to Preparation Task 2 from exercise 2 and activate Java EE in NetBeans
- The project is basically the same like PizzaJDBC task from exercise 2
 - compile and run it, if you don't believe

SAX Usage Task 4: Modify the project to load the pizza data from pizzenExample.xml by using SAX

- Open the file PizzaList.java in the editor
- Go to method parseXMLList()
- Add some code, to read the pizza data from the XML file using SAX and fill the **pizzas** object
 - Hint: see SAX Test task for some helpful code
- Compile and run your project and check the result at the Bestellen page