



the steps of my homework:

1. xquery design according to five different requirements
2. write xqy files to be templates
3. write xsll files to transform the xml files to html files
4. write transform file to transform the xml files to html files
6. create servlet to bridge the input query and the output results
7. create web interface and publish it
8. write clients with and without tool

Yi(Elliot) Cao

how to run my code:

1. import and run dblpServlet.java
2. run dblpClientToo or dblpClientNoTool;
3. get the index.html address and input the address to your browser
4. select the query and click submit button
5. check the results you need

Generating a cli × W3 DOM Parsing an × visual studio 20 × java - Why does × java - @XmlElem × w3 jQuery ajax - se × HTMLDocument × dblp × Yi

localhost:8080/XQuery\_Test/index.html

Select the title of the first article;

Select all the article titles;

Select all the authors;

Select article nodes with publication data later than 2010;

Select title nodes with publication data later than 2010;

localhost:8080/XQuery\_Test/firstTitle.html

## Article Title

Titles
Parallel Integer Sorting and Simulation Amongst CRCW Models.

select the first article title

localhost:8080/XQuery\_Test/firstTitle.html

## Article Title

Titles
Parallel Integer Sorting and Simulation Amongst CRCW Models.

select the first article title

localhost:8080/XQuery\_Test/titles.html

title
A characterization of rational DOL power series.
Equational weighted tree transformations.
Verifying a simplification of mutual exclusion by Lycklama-Hadzilacos.
Trace- and failure-based semantics for responsiveness.
Instruction sequence processing operators.
Deterministic pushdown-CD-systems of stateless deterministic R(1)-automata.
State space axioms for T-systems.
On weighted first-order logics with discounting.
Does indirect addressing matter? - A note.
Head and state hierarchies for unary multi-head finite automata.
A Markovian queue with varying number of servers and applications to the performance comparison of HSDPA user equipment.
Some properties of the disjunctive languages contained in Q.
MAT learners for tree series: an abstract data type and two realizations.
A distributed resource allocation algorithm for many processes.
Compositional type checking of delta-oriented software product lines.
Richer interface automata with optimistic and pessimistic compatibility.
The query complexity of estimating weighted averages.
An efficient simulation algorithm on Kripke structures.
New proof for the undecidability of the circular PCP.
Efficient systematic clustering method for k-anonymization.
Abstract reduction in directed model checking CCS processes.
Compositional construction of most general controllers.
Correct hardware synthesis - An algebraic approach.
On constructibility and unconstructibility of LTS operators from other LTS operators.
Controlled finite automata.
Multi-tilde-bar expressions and their automata.
Synthesizing robust systems.
An efficient algorithm for finding ideal schedules

localhost:8080/XQuery\_Test/authors.html

select all authors

Author
Sanjeev Saxena
Hans-Ulrich Simon
Nathan Goodman
Oded Shmueli
Norbert Blum
Arnold Schönhage
Juha Honkala
Chua-Huang Huang
Christian Lengauer
Alain Finkel
Annie Choquet
Joachim Biskup
Symeon Bozapalidis
Zoltán Füredi
George Rahonis
Victor Khomenko
Alex Kondratyev
Maciej Koutny
Walter Vogler
Wim H. Hesselink
Christian Ronse
Carol Critchlow
Prakash Panangaden
Robin Milner
John Darlington
Maria Calzarossa
M. Italiani
Giuseppe Serazzi

localhost:8080/XQuery\_Test/articles.html

select article later than 2010

title	author	year	pages	volume	journal	number	ee
A characterization of rational DOL power series.	Juha Honkala	2011	19-24	48	Acta Inf.	1	<a href="http://dx.doi.org/10.1007/s00236-010-0128-1">http://dx.doi.org/10.1007/s00236-010-0128-1</a>
Equational weighted tree transformations.	Symeon Bozapalidis	2012	29-52	49	Acta Inf.	1	<a href="http://dx.doi.org/10.1007/s00236-011-0148-5">http://dx.doi.org/10.1007/s00236-011-0148-5</a>
Verifying a simplification of mutual exclusion by Lycklama-Hadzilacos.	Wim H. Hesselink	2013	199-228	50	Acta Inf.	3	<a href="http://dx.doi.org/10.1007/s00236-013-0178-2">http://dx.doi.org/10.1007/s00236-013-0178-2</a>
Trace- and failure-based semantics for responsiveness.	Walter Vogler	2014	499-552	51	Acta Inf.	8	<a href="http://dx.doi.org/10.1007/s00236-014-0205-y">http://dx.doi.org/10.1007/s00236-014-0205-y</a>
Instruction sequence processing operators.	Jan A. Bergstra	2012	139-172	49	Acta Inf.	3	<a href="http://dx.doi.org/10.1007/s00236-012-0154-2">http://dx.doi.org/10.1007/s00236-012-0154-2</a>
Deterministic pushdown-CD-systems of stateless deterministic R(1)-automata.	Benedek Nagy	2013	229-255	50	Acta Inf.	4	<a href="http://dx.doi.org/10.1007/s00236-012-0175-x">http://dx.doi.org/10.1007/s00236-012-0175-x</a>
State space axioms for T-systems.	Eike Best	2015	133-152	52	Acta Inf.	2-3	<a href="http://dx.doi.org/10.1007/s00236-015-0219-0">http://dx.doi.org/10.1007/s00236-015-0219-0</a>
On weighted first-order logics with discounting.	Eleni Mandrali	2014	61-106	51	Acta Inf.	2	<a href="http://dx.doi.org/10.1007/s00236-013-0193-3">http://dx.doi.org/10.1007/s00236-013-0193-3</a>
Does indirect addressing matter? - A note.	Michael Brand	2012	485-491	49	Acta Inf.	7-8	<a href="http://dx.doi.org/10.1007/s00236-012-0171-1">http://dx.doi.org/10.1007/s00236-012-0171-1</a>
Head and state hierarchies for unary multi-head finite automata.	Martin Kutrib	2014	553-569	51	Acta Inf.	8	<a href="http://dx.doi.org/10.1007/s00236-014-0206-x">http://dx.doi.org/10.1007/s00236-014-0206-x</a>
A Markovian queue with varying number of servers and applications to the performance comparison of HSDPA user equipment.	Tien Van Do	2011	243-269	48	Acta Inf.	4	<a href="http://dx.doi.org/10.1007/s00236-011-0138-7">http://dx.doi.org/10.1007/s00236-011-0138-7</a>
Some properties of the disjunctive languages contained in Q.	Zheng-Zhu Li	2011	1-18	48	Acta Inf.	1	<a href="http://dx.doi.org/10.1007/s00236-010-0127-2">http://dx.doi.org/10.1007/s00236-010-0127-2</a>
MAT learners for tree series: an abstract data type and two realizations.	Frank Drewes	2011	165-189	48	Acta Inf.	3	<a href="http://dx.doi.org/10.1007/s00236-011-0135-x">http://dx.doi.org/10.1007/s00236-011-0135-x</a>
A distributed resource allocation algorithm for many processes.	Wim H. Hesselink	2013	297-329	50	Acta Inf.	5-6	<a href="http://dx.doi.org/10.1007/s00236-013-0181-7">http://dx.doi.org/10.1007/s00236-013-0181-7</a>
Compositional type checking of delta-oriented software product lines.	Lorenzo Bettini	2013	77-122	50	Acta Inf.	2	<a href="http://dx.doi.org/10.1007/s00236-012-0173-z">http://dx.doi.org/10.1007/s00236-012-0173-z</a>

localhost:8080/XQuery\_Test/selectTitle.html

Article Title

Titles
Parallel Integer Sorting and Simulation Amongst CRCW Models.
Pattern Matching in Trees and Nets.
NP-complete Problems Simplified on Tree Schemas.
On the Power of Chain Rules in Context Free Grammars.
Schnelle Multiplikation von Polynomen über Körpern der Charakteristik 2.
A characterization of rational D0L power series.
The Derivation of Systolic Implementations of Programs.
Fifo Nets Without Order Deadlock.
On the Complementation Rule for Multivalued Dependencies in Database Relations.
Equational weighted tree transformations.
Merged processes: a new condensed representation of Petri net behaviour.
Verifying a simplification of mutual exclusion by Lycklama-Hadzilacos.
A Three-Stage Construction for Multiconnection Networks.
The Expressive Power of Delay Operators in SCCS.
Calculi for Interaction.
A Synthesis of Several Sorting Algorithms.
A Workload Model Representative of Static and Dynamic Characteristics.
Gray visiting Motzkins.
Trace- and failure-based semantics for responsiveness.
Branching Processes in the Analysis of the Heights of Trees.
Least Upper Bound on the Cost of Optimum Binary Search Trees.
Sometime = Always + Recursion = Always on the Equivalence of the Intermittent and Invariant Assertions Methods for Proving Inevitability Properties of Programs.
Complete Parameterized Families of Job Scheduling Strategies.
Modelling higher-order dual nondeterminacy.
Dispatcher Primitives for the Construction of Operating System Kernels.
A Note on Multihead Automata and Context-Sensitive Languages
A Recursive Second Order Initial Algebra Specification of Primitive Recursion.

wsdl : http://localhost:9090/ws/dblp?wsdl

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<!--
  Published by JAX-WS RI (http://jax-ws.java.net). RI's version is JAX-WS RI 2.2.9-b130926.1035 svn-revision#5f6196f2b90e9460065a4c2f4e30e065b245e51e.
-->
<!--
  Generated by JAX-WS RI (http://jax-ws.java.net). RI's version is JAX-WS RI 2.2.9-b130926.1035 svn-revision#5f6196f2b90e9460065a4c2f4e30e065b245e51e.
-->
<definitions xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" xmlns:wsp="http://www.w3.org/ns/ws-policy"
  xmlns:wspl_2="http://schemas.xmlsoap.org/ws/2004/09/policy" xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:tns="http://web dblp.me.org/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns="http://schemas.xmlsoap.org/wsdl/" targetNamespace="http://web dblp.me.org/" name="dblpImpService">
  <types/>
  <message name="operations">
    <part name="arg0" type="xsd:string"/>
  </message>
  <message name="operationsResponse">
    <part name="return" type="xsd:string"/>
  </message>
  <portType name="dblp">
    <operation name="operations">
      <input wsam:Action="http://web dblp.me.org/dblp/operationsRequest" message="tns:operations"/>
      <output wsam:Action="http://web dblp.me.org/dblp/operationsResponse" message="tns:operationsResponse"/>
    </operation>
  </portType>
  <binding name="dblpImpPortBinding" type="tns:dblp">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="rpc"/>
    <operation name="operations">
      <soap:operation soapAction="" />
      <input>
        <soap:body use="literal" namespace="http://web dblp.me.org/" />
      </input>
      <output>
        <soap:body use="literal" namespace="http://web dblp.me.org/" />
      </output>
    </operation>
  </binding>
  <service name="dblpImpService">
    <port name="dblpImpPort" binding="tns:dblpImpPortBinding">
      <soap:address location="http://localhost:9090/ws/dblp" />
    </port>
  </service>
</definitions>
```

## index address:[http://localhost:8080/XQuery\\_Test/index.html](http://localhost:8080/XQuery_Test/index.html)

The screenshot shows the Eclipse IDE interface with a red box highlighting the title bar and the status bar at the top.

**Title Bar:** java EE - XQuery Test/src/dblpClient/dblpClientToo.java - Eclipse - /Users/caoyi/Documents/workspace-lunaee

**Project Explorer:** Shows the project structure with the XQuery\_Test project selected. Inside XQuery\_Test, there are Java Resources, src, lib, JavaScript Resources, org, and WebContent.

**dblClientToo.java Content:**

```
package dblpClient;

import org.me dblp.web.*;

public class dblpClientToo {
    public static void main(String[] args) {
        DblpImpService dblpService = new DblpImplService();
        Dblp hello = dblpService.getHelloWorld();
        System.out.println(hello.getMessage());
    }
}
```

**Console Output:**

```
<terminated> dblpClientToo [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_66.jdk/Contents/Hon
please input the main address in your browser:
http://localhost:8080/XQuery_Test/index.html
```