

Managing Software Development

Team 15

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Instructions to run

This project can be run via various methods.

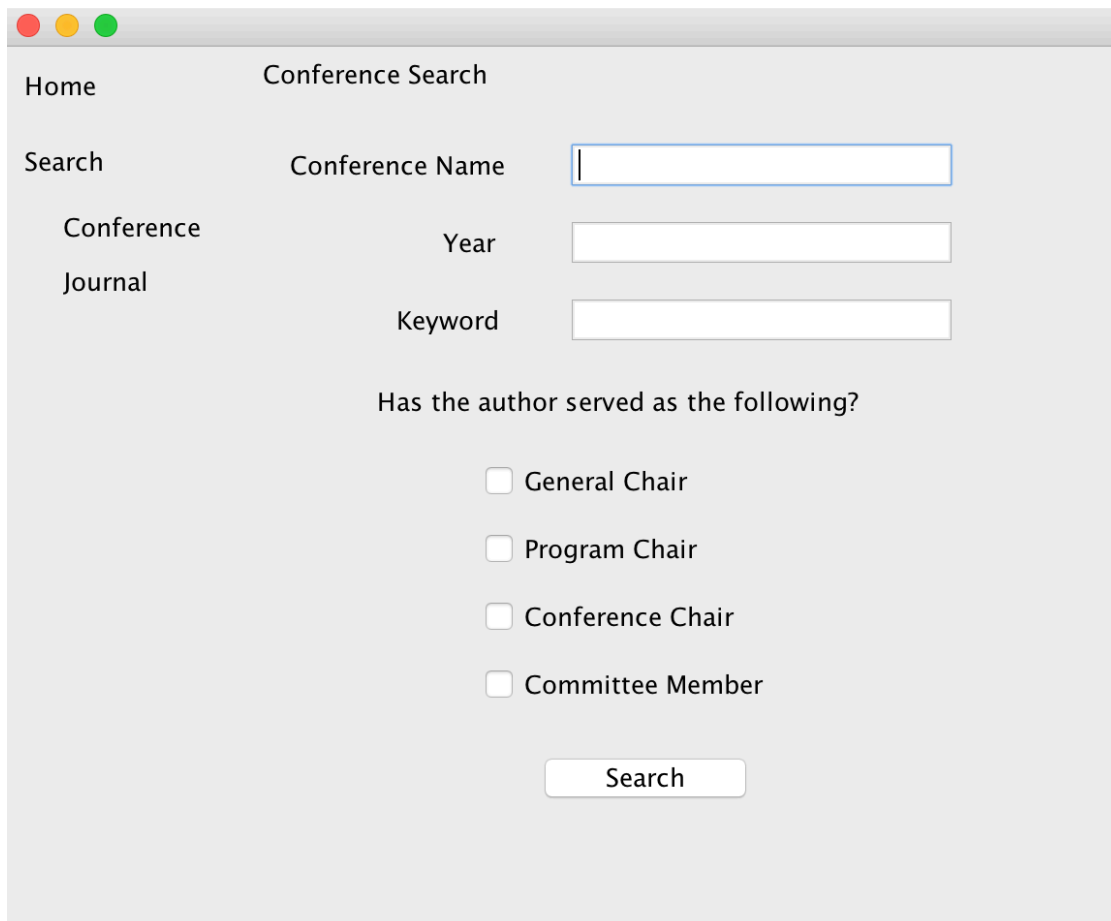
Eclipse :

Eclipse has a functionality to run the project directly from the UI.

1. Load the project to the package explorer.
2. Navigate down to Team15DBLP.ui package
3. Right click on the ConferenceSearch.java file and click "Run As > Java Application"

Terminal :

1. Locate the folder containing the java file using `cd <file-location>`
2. Run using the command : `java -cp <path-to-jar-file> Team15.DBLP.ui.ConferenceSearch`



The screenshot shows a Java Swing window titled "Conference Search". It has a standard macOS-style title bar with red, yellow, and green buttons. The window is divided into two main sections. The top section has a "Home" button on the left and a "Search" label. Below the "Search" label, there are three input fields: "Conference Name", "Year", and "Keyword". The "Conference Name" field is currently selected. The bottom section is titled "Has the author served as the following?" and contains four checkboxes: "General Chair", "Program Chair", "Conference Chair", and "Committee Member". At the bottom center of the window is a "Search" button.

Home	Conference Search
Search	Conference Name <input type="text"/>
Conference	Year <input type="text"/>
Journal	Keyword <input type="text"/>
Has the author served as the following?	
<input type="checkbox"/> General Chair	
<input type="checkbox"/> Program Chair	
<input type="checkbox"/> Conference Chair	
<input type="checkbox"/> Committee Member	
<input type="button" value="Search"/>	

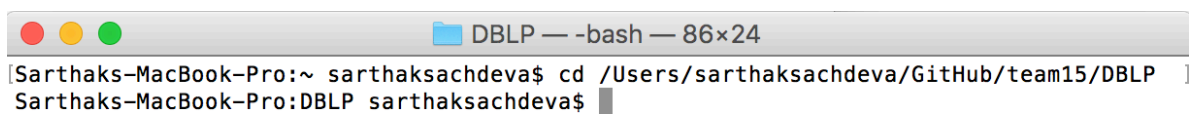
Tests

The java test files are located under `team15/DBLP/src/test/java/Team15/DBLP`

Commands for testing are included in the "JenkinsFile" under the `/team15` folder.

1. We can use the terminal to run various tests using Maven (*which should be installed*). In terminal, locate to the project folder:

`/team15/DBLP`

A screenshot of a macOS terminal window. The title bar shows three colored window control buttons (red, yellow, green) on the left, a folder icon and the text 'DBLP — -bash — 86x24' in the center, and a close button on the right. The terminal content shows two lines of text: the first line is '[Sarthaks-MacBook-Pro:~ sarthaksachdeva\$ cd /Users/sarthaksachdeva/GitHub/team15/DBLP]' and the second line is 'Sarthaks-MacBook-Pro:DBLP sarthaksachdeva\$' followed by a cursor. The text is enclosed in a light gray border.

```
[Sarthaks-MacBook-Pro:~ sarthaksachdeva$ cd /Users/sarthaksachdeva/GitHub/team15/DBLP ]
Sarthaks-MacBook-Pro:DBLP sarthaksachdeva$
```

2. Now run the following commands for the respective functionalities :

- To Compile :

```
$ mvn compile
```

```

DBLP — -bash — 86x24
[INFO] -----
[INFO] Building DBLP 0.0.1
[INFO] -----
[INFO] --- jacoco-maven-plugin:0.7.9:prepare-agent (default-prepare-agent) @ DBLP ---
[INFO] argLine set to -javaagent:/Users/sarthaksachdeva/.m2/repository/org/jacoco/org.jacoco.agent/0.7.9/org.jacoco.agent-0.7.9-runtime.jar=destfile=/Users/sarthaksachdeva/GitHub/team15/DBLP/target/jacoco.exec
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ DBLP ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory /Users/sarthaksachdeva/GitHub/team15/DBLP/src/main/resources
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ DBLP ---
[INFO] Nothing to compile - all classes are up to date
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 0.781 s
[INFO] Finished at: 2017-03-31T16:00:17-04:00
[INFO] Final Memory: 11M/309M
[INFO] -----
Sarthaks-MacBook-Pro:DBLP sarthaksachdeva$

```

- To Test :

```
$ mvn test
```

```

DBLP — -bash — 86x24
com.mysql.jdbc.JDBC4PreparedStatement@7d25913: select distinct a.name from AuthorPaper as a where a.year = 2006 and( a.conference like '%icccn%' or a.paper_key like '%iccn%' )
com.mysql.jdbc.JDBC4PreparedStatement@40a1b6d4: select distinct a.name from AuthorPaper as a where a.year = 2006 and( a.conference like '%Conference on Computer Communications and Networks%' or a.paper_key like '%Conference on Computer Communications and Networks%' )
com.mysql.jdbc.JDBC4PreparedStatement@5f0f70c7: select distinct a.name from AuthorPaper as a where a.year = 1989 and( a.title like '%Map Reduce%' or a.title like '%Machine Learning%' )
Tests run: 5, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 61.848 sec

Results :

Tests run: 20, Failures: 0, Errors: 0, Skipped: 0

[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:09 min
[INFO] Finished at: 2017-03-31T16:03:12-04:00
[INFO] Final Memory: 13M/309M
[INFO] -----
Sarthaks-MacBook-Pro:DBLP sarthaksachdeva$

```

- To Deploy :

\$ mvn package

```
DBLP — -bash — 81×30
Paper as a where a.year = 2006 and( a.conference like '%icccn%' or a.paper_key
like '%icccn%' )
com.mysql.jdbc.JDBC4PreparedStatement@40a1b6d4: select distinct a.name from Autho
rPaper as a where a.year = 2006 and( a.conference like '%Conference on Computer
Communications and Networks%' or a.paper_key like '%Conference on Computer Commu
nications and Networks%' )
com.mysql.jdbc.JDBC4PreparedStatement@5f0f70c7: select distinct a.name from Autho
rPaper as a where a.year = 1989 and( a.title like '%Map Reduce%' or a.title l
ike '%Machine Learning%' )
Tests run: 5, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 66.037 sec

Results :

Tests run: 20, Failures: 0, Errors: 0, Skipped: 0

[INFO]
[INFO] --- jacoco-maven-plugin:0.7.9:report (default-report) @ DBLP ---
[INFO] Loading execution data file /Users/sarthaksachdeva/GitHub/team15/DBLP/targ
et/jacoco.exec
[INFO] Analyzed bundle 'DBLP' with 26 classes
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ DBLP ---
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:13 min
[INFO] Finished at: 2017-03-31T16:09:55-04:00
[INFO] Final Memory: 15M/222M
[INFO] -----
Sarthaks-MacBook-Pro:DBLP sarthaksachdeva$
```

The test suite will run successfully.