

Managing Software Development

Team 15

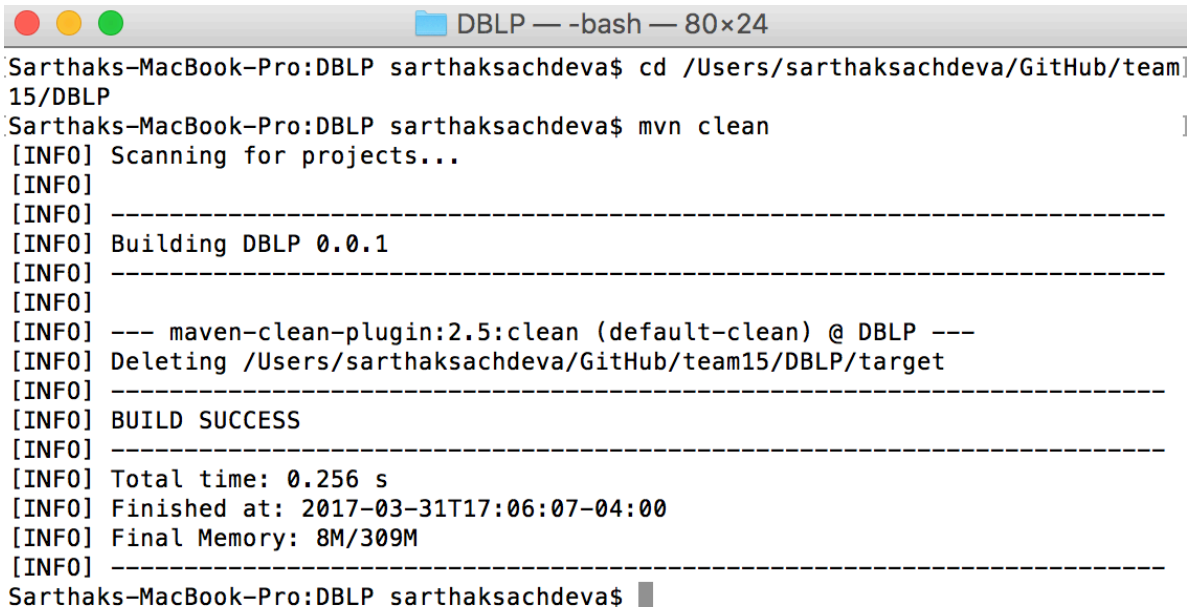
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Instructions to run

This project can be run via various methods.

Before everything, we must run the *mvn clean* command. Certain plugins require a *clean* in order to work properly.

1. Navigate to the project folder /team15/DBLP/ in Terminal by using the change directory command.
2. Run the following maven command : `$ mvn clean`
3. This will create the necessary jar files in the project folder which can be run using terminal.



```
Sarthaks-MacBook-Pro:DBLP sarthaksachdeva$ cd /Users/sarthaksachdeva/GitHub/team15/DBLP
Sarthaks-MacBook-Pro:DBLP sarthaksachdeva$ mvn clean
[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] Building DBLP 0.0.1
[INFO] -----
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ DBLP ---
[INFO] Deleting /Users/sarthaksachdeva/GitHub/team15/DBLP/target
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 0.256 s
[INFO] Finished at: 2017-03-31T17:06:07-04:00
[INFO] Final Memory: 8M/309M
[INFO] -----
Sarthaks-MacBook-Pro:DBLP sarthaksachdeva$
```

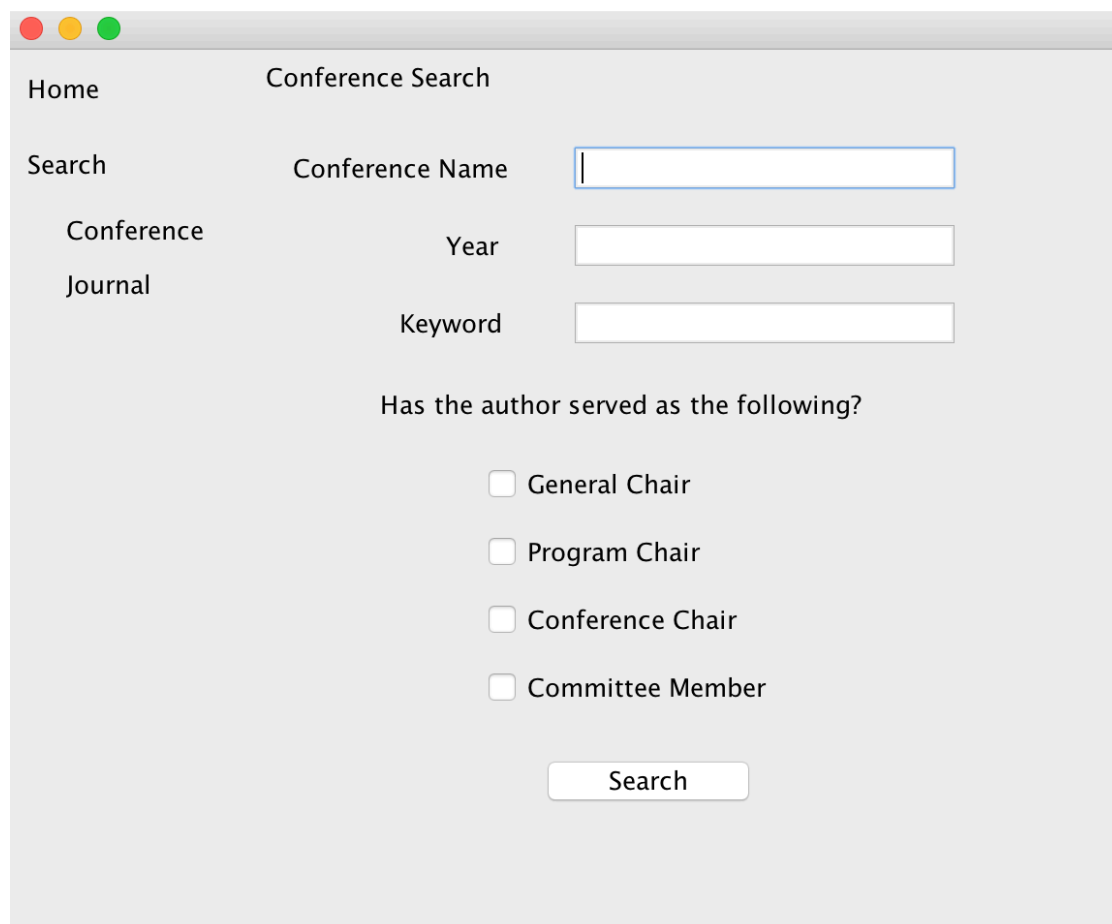
Eclipse :

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 form on the right. The search form contains three input fields: "Conference Name", "Year", and "Keyword". The bottom section is titled "Has the author served as the following?" and contains four unchecked checkboxes: "General Chair", "Program Chair", "Conference Chair", and "Committee Member". A "Search" button is located at the bottom center of the window.

Conference Search	
Home	
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"/>	

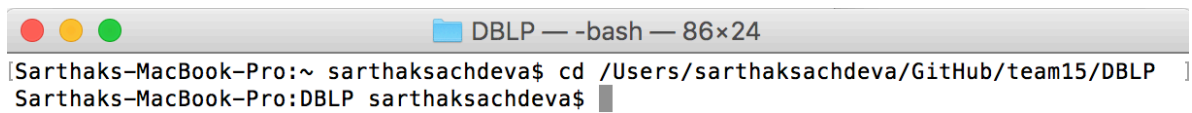
Tests

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 a prompt from 'Sarthaks-MacBook-Pro:~ sarthaksachdeva\$' followed by the command 'cd /Users/sarthaksachdeva/GitHub/team15/DBLP' and a closing bracket; the second line shows the prompt 'Sarthaks-MacBook-Pro:DBLP sarthaksachdeva\$' followed by a cursor.

```
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 — 81x30
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.