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# Software Technologies Required – Versions and Links

- Java 8 JDK 1.8 download link
- Eclipse Mars for Java EE download link
- Apache Tomcat 8 download link
- Apache TomEE 1.7.3 download link
- Apache Maven download link
- Oracle XE download link
- Oracle SQL Developer download link
- JSTL jar download link

#### Java 8 Installation Guide

- Download the installer
- Run the JDK installer (you must have administrative permissions)
- Create/Update the JAVA\_HOME and PATH environment variables (Windows7):
  - Click Start -> Control Panel -> System and Security
  - Click System -> Advanced system and settings
  - Click Environment variables
  - o Press **New...** in the System variables -> fill the fields with the following:
    - Variable name JAVA\_HOME
    - Variable value C:\Program Files\Java\jdk1.8.0\_65 (typical path)
  - Select Path variable from System variables -> edit
  - Add %JAVA\_HOME%\bin at the beginning (system variables values are; separated)
- Check if the variables are correct:
  - Click Start -> type cmd in the search -> press Enter
  - Type javac –version
  - Result should be javac 1.8.0\_XX

### **Eclipse Mars Installation Guide**

- Download the archive
- Unarchive the file into folder of your choosing
- Eclipse doesn't need installation run from the Eclipse icon in the folder
- Start Eclipse -> Select workspace (where your projects will be placed) -> Close the welcome screen
- From the main menu choose Window -> Preferences
- Select Java -> Editor -> Save Actions
- Check the following:
  - Perform the selected actions on save
  - Format source code -> Format all lines
  - Organize imports
  - Additional actions
- Press Apply -> OK























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### **Apache Tomcat Installation Guide**

- Download the archive
- Unarchive the file into folder of your choosing
- Apache Tomcat doesn't need installation we will run it from Eclipse
- Start Eclipse -> Select workspace (where your projects will be placed) -> Close the welcome screen
- Click on the servers tab in the bottom section -> Press No servers are available. Click this link to create a new server...
- Select Apache -> Tomcat 8 -> Press Next
- Press **Browse** -> Locate the server's installation directory -> Press **OK**
- In the JRE section select jdk1.8.0\_XX (Press Installed JREs... and locate your JDK if it's not shown) -> Finish
- Double Click on the server
- In the Server Locations section choose **Use Tomcat Installation...**
- In the Ports section change HTTP/1.1 port from 8080 to 8085
- Press Ctrl+S to save the configuration
- To run the Tomcat Server Right Click on the server -> Start

### Apache TomEE Installation Guide

- Download the archive
- Unarchive the file into folder of your choosing
- Apache TomEE doesn't need installation we will run it from Eclipse
- Start Eclipse -> Select workspace (where your projects will be placed) -> Close the welcome screen
- Click on the servers tab in the bottom section -> Press No servers are available. Click this link to create a new server...
- Select Apache -> Tomcat 7 -> Press Next
- Press **Browse** -> Locate the server's installation directory -> Press **OK**
- In the JRE section select jdk1.8.0 XX (Press Installed JREs... and locate your JDK if it's not shown) -> Finish
- Double Click on the server
- In the Server Locations section choose Use Tomcat Installation...
- In the Ports section change HTTP/1.1 port from 8080 to 8085
- Press Ctrl+S to save the configuration
- To run the Tomcat Server Right Click on the server -> Start

## **Apache Maven Installation Guide**

- Download the archive
- Unarchive the file into folder of your choosing
- Create/Update the M2\_HOME and PATH environment variables (Windows7):
  - Click Start -> Control Panel -> System and Security
  - Click System -> Advanced system and settings
  - Click Environment variables
  - Press **New...** in the System variables -> fill the fields with the following:
    - Variable name M2\_HOME
    - Variable value C:\Program Files\apache-maven-3.3.9 (example path)























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- Select Path variable from System variables -> edit
- Add the %M2\_HOME (bin after the JAVA\_HOME (system variables values are; separated)
- Check if the variables are correct:
  - Click Start -> type cmd in the search -> press Enter
  - Type mvn --version
  - o Result should be detailed list of installed maven and java versions

#### Oracle XE Installation Guide

- Download the archive
- Unarchive the file into folder of your choosing
- Run the installer run from the setup icon in the folder
- Install using the default settings -> Set up the following password: User!0958
- Access the Console at http://127.0.0.1:8080/apex/apex\_admin
  - Username: admin
  - o Password: User!0958
  - Change the password to: DBCourse01!
- Create new workspace:
  - Press Manage Workspaces -> Press Create Workspace
  - Enter workspace name: roject name> -> Press Next</pr>
  - o Fill the fields (used to access the DB from the SQL Developer):

    - Press Next
  - Fill the fields (used to access the DB as admin not used during the course):
    - Admin Username: admin
    - Admin Password: admin
    - Email: a@a.a Press Next
  - Press Create Workspace

## **Oracle SQL Developer Installation Guide**

- Download the archive
- Unarchive the file into folder of your choosing
- Oracle SQL Developer doesn't need installation run from the sqldeveloper icon in the folder
- Connect to the DB:
  - Right click on Connections -> New Connection...
  - Fill the fields:

    - Password: project name>
    - Hostname: localhost
    - Port: **1521** SID: xe
    - Check Save Password
    - Click **Test** -> Click **Connect** (if test fails check the fields data)























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