## Project Software and Versions

The purpose of this document is to list the most recent, stable generally available (GA) software versions to be used in our project.

## Components List

The OS is irrelevant as all packages are cross-platform. For example, the production environment will use Fedora v26 Linux while my personal dev platform will be on Windows 10.

NOTE: Only stable versions will be considered (no alpha/beta/pre-release). In this case, I suggest the latest stable builds as of September 15 2017, and that we lock on those, even should a newer version be introduced during the project duration.

All software packages are using the 64-bit version.

Layer	Component	Version	Notes	Link
Web Tier, Business Tier	Apache Tomcat	8.5.20	Web Server and Application Server; supports JSP and Servlets	https://tomcat.apa che.org/whichversi on.html

Data Tier	MySQL Community Server	5.7.19	Latest GA version; supports Fedora 26 and Win X	https://dev.mysql. com/downloads/my sql/
Data Access	JDBC: MySQL Connector/J Driver	5.1.44	Developed by MySQL devs; needs to be installed into TomCat	https://dev.mysql. com/downloads/co nnector/j/
Integrated Development Environment (IDE)	Eclipse Oxygen	Auto-updates to latest version	If you have it already, then update. If not, download Eclipse Oxygen for latest	https://www.eclips e.org/downloads/
OS for Deployment Environment	Fedora Server	26	Fedora is a variant of Red Hat Linux and extremely stable	https://getfedora.o rg/en/server/downl oad/
OS for Development Environment	Whatever you are using	*	Personal choice	N/A
Java	JVM/JRE: OpenJDK	1.8.0 Update 144 (64-bit)	The most recent free version of Java JDK	http://openjdk.java .net/install/index.h tml (Linux) https://java.com/e n/download/ (Oracle binaries for

				Windows, Mac)
JSP	Apache Commons Taglib	1.2.5	Just place in project's WEB-INF lib/ directory. There are 4 .jar files.	http://tomcat.apac he.org/download-t aglibs.cgi#Standar d-1.2.5
Data	Hibernate	4.3.11  NOTE: Will upgrade to 5.12.1 for Part 3	Place in WEB-INF/lib/ directory. Include C3P0.	https://sourceforge .net/projects/hiber nate/files/hibernate 4/4.3.11.Final/

## Other Tools

Here is a partial list of other tools that aren't necessary but may help:

- Putty (<u>www.putty.org</u>) for SSH (there's also a newer variant, Kitty, that is good)
- Jetty (embedded application server in Eclipse for testing/debugging servlets in the IDE)
- MySQL Workbench (dev.mysql.com) visualization and administration tools for MySQL
- Notepad (LOL, just had to mention this basic one; can't live without it!)
- Github for code sharing; Eclipse has support for this; I will start a repository once we reach the next part
- MS Visio (free from <u>dreamspark</u>); for UML and logic / flow visuals
- MS Project (free from <u>dreamspark</u>); project plans and team tasks