



1. Project: Online TODO List

You are required to build a simple online TODO list with a web interface that can be used in all popular web browsers. The application has to Support multiple users, store necessary data in a in-memory database and be built with J2EE technology (use of open-source frameworks is also allowed)

2. Minimal functionality

- User can sign in using unique login and password securely (this can be hard coded to a default user list, at list one user e.g. with username: test, password: pwd123)
- User can view her/his task list
- User can add/remove task
- All changes can be persistent to allow view them in next sign in by the same user
- Each task should display the date of last updates and description
- User can check/uncheck any task on their list
- Consider performance

3. Your outputs

Please supply **War** file and all **source code** using a public **GitHub** repository where we can fork and review your code. The war file will be deployed and tested in TOMCAT 7/8 (Java 7/8). You are allowed to use any open-source library/framework, but it has to be included into a final WAR file. Please use an open sourced in-memory database if needed (e.g. HSQL)

Please also supply a short (1-2 pages) write up that explains you design choices:

- Why certain approaches were used, why others were not selected
- Any design patterns used
- Anything extra you would have done give more time
- Anything else you feel I should know

4. What we look for

Just because you take an easy approach won't set you back in our eyes. Easy might just mean you're busy - we understand. Either way, we look at the same areas:

- Approach taken



- Architecture
- Code structure and clarity
- Performance
- Security
- Testing