

# Glassfish 4.1.1 - Code inspection

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**POLITECNICO**  
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# 1 Introduction

## 1.1 Purpose

This is the code inspection document for a subset of methods in the Glassfish 4.1.1 JEE web-server project. The purpose of this document is to report all code-related issues and compliances of the methods, in relation to some coding practices and standards that will be defined later in the document.

This document is intended for software engineers and programmers involved in the project, as it could possibly identify a necessity for a code cleanup or restructuring.

## 1.2 Scope

The Glassfish 4.1.1 project is divided into different modules, each composed of numerous classes and methods.

The analysis that will be carried out in this document will only involve the following 5 methods of the `StatefulSessionContainer` class (located at Glassfish 4.1.1/appserver/ejb/ejb-container/src/main/java/com/sun/ejb/containers/ of the public Subversion repository of the project):

1. `destroyExtendedEMsForContext( SessionContextImpl sc )`
2. `_getContextForInstance( byte [] instanceKey )`
3. `_getContext( EjbInvocation inv )`
4. `doVersionCheck( EjbInvocation inv, Object sessionKey, SessionContextImpl sc )`
5. `handleConcurrentInvocation( boolean allowSerializedAccess, EjbInvocation inv, SessionContextImpl sc, Object sessionKey )`

## 1.3 Definitions, acronyms, and abbreviations

Throughout this document, the following definitions will be applied without further explanations:

- **JEE:** Java Enterprise Edition

## 1.4 Code standards and best practice

The analysis that will be performed in this document will be centered on the following code standards and best practice, which will be checked for each method. The conventions are given in the form of a checklist and can be found attached to this document in the “Assignment 3 - Code inspection.pdf” file.

## 2 Code inspection

### 2.1 destroyExtendedEMsForContext

Line	Checklist Number	Comment
1395	52	catch block catch Throwable instead of Illegal State Exception

### 2.2 \_getContextForInstance

Line	Checklist Number	Comment
1462	56	while(true) loop
1476	54	empty case block without break or return

### 2.3 \_getContext

### 2.4 doVersionCheck

Line	Checklist Number	Comment
1754	29	useless parameter (sessionKey) used only for log
1757	29	useless variable (initialized with constant and no more changed)
1778	43	string concatenation can be avoided

## 2.5 `handleConcurrentInvocation`

## 3 Additional comments

The production of this document has been a joint effort of all the authors, with a fair distribution of the mansions which caused each member of the group to work on all the parts of the document. The production has been carried out between 9/12/2015 and 4/1/2016 for a total time expense of:

- **Group work:** 10 hours
- **Individual work:**

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