

Stack Information

Name: Project ofi2004
Description: Description of ofi2004.
Version: 3.0
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Git Commit: 1e84b5100e09d9b6c5ea1b6c2ccee8957391beec
Git Tag: ods-generated-v3.0-3.0-0b11-D
Git URL: https://bitbucket/scm/of2004/of2004-release.git
OpenShift Cluster API URL: https://openshift-sample
Created by Jenkins Job Name: ofi2004-cd/of2004-cd-release-master
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System and Software Design Specification incl. Source Code Review Plan for 'Project ofi2004'

TABLE OF CONTENTS

- 1 [INTRODUCTION](#)
- 2 [OVERVIEW](#)
 - 2.1 [SYSTEM DESIGN OVERVIEW INCL. SYSTEM DIAGRAM](#)
 - 2.2 [SOFTWARE DESIGN OVERVIEW](#)
 - 2.3 [SOURCE CODE REVIEW OVERVIEW](#)
- 3 [SYSTEM DESIGN PROFILE AND SYSTEM DESCRIPTION](#)
 - 3.1 [SYSTEM DESIGN PROFILE](#)
 - 3.2 [SYSTEM DESCRIPTION](#)
- 4 [ARCHITECTURE OF THE SYSTEM](#)
- 5 [SYSTEM COMPONENTS](#)
 - 5.1 [SYSTEM COMPONENT LIST](#)
 - 5.2 [SYSTEM COMPONENT SPECIFICATIONS](#)
 - 5.3 [UTILISATION OF EXISTING INFRASTRUCTURE SYSTEMS](#)
 - 5.4 [UTILISATION OF EXISTING INFRASTRUCTURE SERVICES](#)
- 6 [CONFIGURATION FOR ADDITIONAL ENVIRONMENTS](#)
 - 6.1 [DEVELOPMENT ENVIRONMENT](#)
 - 6.2 [QA/TEST ENVIRONMENT](#)
 - 6.3 [TRAINING ENVIRONMENT](#)
- 7 [ENVIRONMENTAL CONDITIONS](#)
- 8 [SOFTWARE DESIGN PRINCIPLES](#)
- 9 [SYSTEM DATA](#)
- 10 [MODULE DESCRIPTION](#)
- 11 [MODULES TO BE REVIEWED](#)

12 [CODING REVIEW RESULTS](#)

13 [DEFINITIONS AND ABBREVIATIONS](#)

13.1 [DEFINITIONS](#)

13.2 [ABBREVIATIONS](#)

14 [REFERENCE DOCUMENTS](#)

15 [DOCUMENT HISTORY](#)

1 INTRODUCTION

2 OVERVIEW

2.1 SYSTEM DESIGN OVERVIEW INCL. SYSTEM DIAGRAM

2.2 SOFTWARE DESIGN OVERVIEW

2.3 SOURCE CODE REVIEW OVERVIEW

The scope of the automated review, performed by SonarQube, during the build process, is all modules listed below, based on defined quality rule sets (Quality Profiles).

The installation of SonarQube is part of OpenDevStack (*BI-IT-DEVSTACK*) and hence qualified.

The review is automated. In case the review passes, based on quality gates, the pipeline will continue. Otherwise it will fail and stop further processes.

SonarQube identifies at least three types of code issues:

- Bug - A coding error that will break your code and needs to be fixed.
- Vulnerability - A point in your code that's open to attack.
- Code Smell - A maintainability issue that makes your code confusing and difficult to maintain.

Each issue has one of five severities:

- BLOCKER - Bug with a high probability to impact the behavior of the application in production: memory leak, unclosed JDBC connection, The code should be immediately fixed.
- CRITICAL - Either a bug with a low probability to impact the behavior of the application in production or an issue which represents a security flaw: empty catch block, SQL injection, ... The code must be immediately reviewed.
- MAJOR - Quality flaw which can highly impact the developer productivity: uncovered piece of code, duplicated blocks, unused parameters, ...
- MINOR - Quality flaw which can slightly impact the developer productivity: lines should not be too long, "switch" statements should have at least 3 cases, ...
- INFO - Neither a bug nor a quality flaw, just a finding.

3 SYSTEM DESIGN PROFILE AND SYSTEM DESCRIPTION

3.1 SYSTEM DESIGN PROFILE

The system has the following system design specifications:

SSDS #	Detailed Technical/Functional Specification	Traces To:
OFI2004-127	TST CONTINUED	OFI2004-125
OFI2004-203	TST ADDED	OFI2004-201
OFI2004-137	TST MODIFIED	OFI2004-245
OFI2004-132	story DISCONTINUED	None

3.2 SYSTEM DESCRIPTION

Curabitur molestie, massa sed condimentum posuere, tellus elit ornare nibh, eget interdum orci mauris convallis libero. Sed et metus id odio pellentesque tincidunt. Aenean at iaculis felis. Phasellus et ante consequat, eleifend nibh at, porttitor orci. Pellentesque tempus nibh elementum, laoreet urna a, tempus augue. Quisque dictum, lacus mollis laoreet congue, velit leo mollis eros, vel imperdiet tortor mauris sit amet arcu. Praesent euismod imperdiet nisi sed tincidunt. Maecenas commodo faucibus massa, sit amet lobortis lectus eleifend id. Fusce dignissim, metus sed vulputate ultricies, quam nulla molestie diam, ac condimentum arcu felis vel nisl. Nunc maximus ex quis neque ultrices, elementum volutpat metus fringilla. Praesent suscipit eleifend augue, at aliquet metus finibus sit amet. Sed tristique mattis aliquet.

3.2.1 Modules to be developed

The following modules (components) will be developed.

Name of module	Purpose
release	myDescription-A
thefirst	myDescription-A

thesecond	myDescription-A
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3.2.2 Interfaces between Modules

Interface	Between Module	And Module	Purpose
Interface A	backend	frontend	

3.2.3 Interfaces to External Systems

Interface	Between Module	And External System	Purpose
BI-IF-	backend		

3.2.4 System Diagram

< A system diagram to graphically represent the module and interface information should be included here. > - Only if different from the diagram in the 2.1 section

4 ARCHITECTURE OF THE SYSTEM

5 SYSTEM COMPONENTS

5.1 SYSTEM COMPONENTS LIST

This system is composed of the following components:

SSDS #	Type of Component	Identification (Config. Item)	Functionality/Purpose	Components Specifications (Section/Doc ID)
Technology-spock	Software	spock	myDescription-A	see Section 5.2
Technology-release	ODS Component	release	myDescription-A	see Section 5.2
Technology-thefirst	ODS Component	thefirst	myDescription-A	see Section 5.2
Technology-thesecond	ODS Component	thesecond	myDescription-A	see Section 5.2

5.2 SYSTEM COMPONENTS SPECIFICATIONS

The installation comprises the following software-defined components:

SSDS #	Name of Software	Supplier	Version	Description of Functionality	References
Technology-spock	spock	mySupplier-A	myVersion-A	myDescription-A	myReferences-A
Technology-release	release	mySupplier-A	WIP	myDescription-A	myReferences-A
Technology-thefirst	thefirst	mySupplier-A	WIP	myDescription-A	myReferences-A
Technology-thesecond	thesecond	mySupplier-A	WIP	myDescription-A	myReferences-A

5.3 UTILISATION OF EXISTING INFRASTRUCTURE SYSTEMS

Name of Infrastructure System	Documentation Reference
<i>BI-IT-APPL-LOAD-BALANCING</i>	
<i>ITEMS doc ID 20108828</i>	
<i>BI-IT-AD</i>	
<i>ITEMS doc ID 20095172</i>	
<i>BI-RT-WINDOWSSERVER</i>	
<i>Infrastructure Release Design and Management ITEMS doc ID 20184916</i>	

5.4 UTILISATION OF EXISTING INFRASTRUCTURE SERVICES

Name of Infrastructure Service	Documentation Reference
<i>Monitoring</i>	<i>Standard Monitoring (Baseline Monitoring) on component level is sufficient System specific Monitoring Plan required ITEMS doc ID ?..</i>
<i>Backup</i>	<i>Standard Backup on component level is sufficient System specific Backup Plan required ITEMS doc ID ?.. **</i>
<i>Restore & Recovery</i>	<i>Standard Restore & Recovery on component level is sufficient System specific Restore & Recovery Plan required ITEMS doc ID ?..</i>

6 CONFIGURATIONS FOR ADDITIONAL ENVIRONMENTS

6.1 DEVELOPMENT ENVIRONMENT

N/A

6.2 QA/TEST ENVIRONMENT

N/A

6.3 TRAINING ENVIRONMENT

< Insert statements, if applicable >

< Set the colour to black in the 'EDP Content' field before marking this issue as DONE >

7 ENVIRONMENTAL CONDITIONS

< Describe the environmental conditions required for the system. A reference to an existing qualified computer room may be given. The following conditions should be considered: e.g. temperature, humidity, power conditions, physical security, etc. >

8 SOFTWARE DESIGN PRINCIPLES

< The principles that may be included are:

- General layout rules for windows and reports
- Audit trail implementation
- Access control measures
- User administration
- Function key assignments
- Minimum requirements (resources) needed for the application to run properly, both hardware (e.g. storage space) as well as software (such as operating system, drivers).>

9 SYSTEM DATA

10 MODULE DESCRIPTION

This system contains the following modules (components) that are going to be developed.

RELEASE

Component Name	Type of Module	Source code location	Version
release	ODS Component	mySupplier-A	WIP

myDescription-A

THEFIRST

Component Name	Type of Module	Source code location	Version
thefirst	ODS Component	mySupplier-A	WIP

myDescription-A

This module has the following software design specifications:

SSDS #	Description
OFI2004-132	story DISCONTINUED

For the GAMP topic *uncategorized*, the following requirements are covered by the SSDS above:

Req #	Requirement
OFI2004-245	story MODIFIED (from OFI2004-135) story MODIFIED
OFI2004-201	story ADDED story ADDED
OFI2004-125	story CONTINUED story CONTINUED

OFI2004-130	story DISCONTINUED story DISCONTINUED
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THESECOND

Component Name	Type of Module	Source code location	Version
thesecond	ODS Component	mySupplier-A	WIP

myDescription-A

11 MODULES TO BE REVIEWED

The following modules will be reviewed.

Name of module	Functionality	References to SSDS
release	myDescription-A	see Section 10
thefirst	myDescription-A	see Section 10
thesecond	myDescription-A	see Section 10

12 CODING REVIEW RESULTS

The results of the (automated) coding review can be seen in the appended Code Analysis generated by SonarQube for:

- release
- thefirst
- thesecond

< Identify the outcome of coding review. Identify standards that were not met and their corrective actions. The corrective actions should include evidence of agreement by developer and reviewer.
>

13 DEFINITIONS AND ABBREVIATIONS

13.1 DEFINITIONS

Term	Definition
Jenkins	Build engine supplied by cloudbees - part of OpenDevStack (BI-IT-DEVSTACK)
xUnit	Unit testing framework, aggregaults across multiple languages

13.2 ABBREVIATIONS

Abbreviation	Meaning
ODS	OpenDevStack
EDP	Enterprise Development Platform

14 REFERENCE DOCUMENTS

- Combined Specification Document (version BI-IT-DEVSTACK / 4-WIP)
- [Reference document 1](#)
- [Reference document 2](#)

15 DOCUMENT HISTORY

Version	Date	Author	Change Reference
1	See Summary of electronic document or signature page of printout.		Initial document version.
2	See Summary of electronic document or signature page of printout.		<p>Modifications for project version '2.0'. The following requirements were added:</p> <ul style="list-style-type: none">• OFI2004-201 <p>The following techSpecs were added:</p> <ul style="list-style-type: none">• OFI2004-203 <p>The following documentation chapters were changed:</p> <ul style="list-style-type: none">• OFI2004-194 was previously OFI2004-79: 3.2 null• OFI2004-193 was previously OFI2004-58: 15 null
3	See Summary of electronic document or signature page of printout.		<p>Modifications for project version '3.0'. The following requirements were removed:</p> <ul style="list-style-type: none">• OFI2004-130 <p>The following requirements were changed:</p> <ul style="list-style-type: none">• OFI2004-245 was previously OFI2004-135 <p>The following techSpecs were removed:</p> <ul style="list-style-type: none">• OFI2004-132

4	See Summary of electronic document or signature page of printout.	<p>Modifications for project version '3.0'. This document version invalidates the changes done in document version '3'. The following requirements were removed:</p> <ul style="list-style-type: none">• OFI2004-130 <p>The following requirements were changed:</p> <ul style="list-style-type: none">• OFI2004-245 was previously OFI2004-135 <p>The following techSpecs were removed:</p> <ul style="list-style-type: none">• OFI2004-132
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The following table provides extra history of the document.

Version	Date	Author	Reference
	Curabitur molestie, massa sed condimentum posuere, tellus elit ornare nibh, eget interdum orci mauris convallis libero. Sed et metus id odio pellentesque tincidunt. Aenean at iaculis felis. Phasellus et ante consequat, eleifend nibh at, porttitor orci. Pellentesque tempus nibh elementum, laoreet urna a, tempus augue. Quisque dictum, lacus mollis laoreet congue, velit leo mollis eros, vel imperdiet tortor mauris sit amet arcu. Praesent euismod imperdiet nisi sed tincidunt. Maecenas commodo faucibus massa, sit amet lobortis lectus eleifend id. Fusce dignissim, metus sed vulputate ultricies, quam nulla molestie diam, ac condimentum arcu felis vel nisl. Nunc maximus ex quis neque ultrices, elementum volutpat metus fringilla. Praesent suscipit eleifend augue, at aliquet metus finibus sit amet. Sed tristique mattis aliquet.		