

**Software Engineering 2: “PowerEnJoy”**

**Code Inspection (V. 1.0)**

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**Table of contents**

[1. Introduction 3](#_Toc473827479)

[1.1 Revision History 3](#_Toc473827480)

[1.2 Purpose and Scope 3](#_Toc473827481)

[1.3 Definitions and Abbreviations 3](#_Toc473827482)

[1.4 Reference Documents 3](#_Toc473827483)

[1.5 Document Structure 3](#_Toc473827484)

[2. Classes 4](#_Toc473827485)

[3. Functional role 5](#_Toc473827486)

[3.1 Javadoc 5](#_Toc473827487)

[4. List of Issues 6](#_Toc473827488)

[5. Other problems 7](#_Toc473827489)

[6. Hours of work 8](#_Toc473827490)

# Introduction

## Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Authors | Description |
| 1.0 | 22/01/2017 | S. Caprara, S. Ghanbari, E. Tinti | First release |

## Purpose and Scope

This

## Definitions and Abbreviations

* **DB:** database, the collection of system data.

## Reference Documents

The documents used as a reference to provide the design document are:

* Code Inspection Assignment Task Description.pdf

## Document Structure

The documents used as a reference to provide the design document are:

* Code Inspection Assignment Task Description.pdf

# Classes

Two classes were assigned to our group for the code inspection.

## BillingAccountWorker

**Namespace**: org.apache.ofbiz.accounting.payment

**Methods**:

* makePartyBillingAccountList(GenericValue, String, String, Delegator, LocalDispatcher)
* getBillingAccountOpenOrders(Delegator, String)
* getBillingAccountAvailableBalance(GenericValue)
* getBillingAccountAvailableBalance(Delegator, String)
* getBillingAccountNetBalance(Delegator, String)
* availableToCapture(GenericValue)
* calcBillingAccountBalance(DispatchContext, Map<String, ? extends Object>)

## PaymentWorker

**Namespace**: org.apache.ofbiz.accounting.payment

**Methods**:

* getPartyPaymentMethodValueMaps(Delegator, String)
* getPartyPaymentMethodValueMaps(Delegator, String, Boolean)
* getPaymentMethodAndRelated(ServletRequest, String)
* getPaymentAddress(Delegator, String)
* getPaymentsTotal(List<GenericValue>)
* getPaymentApplied(Delegator, String)
* getPaymentApplied(Delegator, String, Boolean)
* getPaymentAppliedAmount(Delegator, String)
* getPaymentApplied(GenericValue)
* getPaymentApplied(GenericValue, Boolean)
* getPaymentNotApplied(GenericValue)
* getPaymentNotApplied(GenericValue, Boolean)
* getPaymentNotApplied(Delegator, String)
* getPaymentNotApplied(Delegator, String, Boolean)

# Functional role

We provide here the Gantt chart of the schedule, showing the organization of the tasks for the project.

## Javadoc

We provide here the table containing figures used in the evaluation. It is based on the following scale drivers:

* Precedentedness (PREC): the

# List of Issues

## Naming Conventions

**BillingAccountWorker**

Line 67: String currencyUomId may be not clear enough.

Line 85: billingAccountVO variable has a name not clear.

Line 88: thruDate not clear the meaning of "thru".

Line 156: pAi stands for paymentApplicationIterator but not clear.

Line 230: variable delegator may be not clear enough.

Line 262: actualCurrencyUomId variable has a name not clear.

Line 180: method availableToCapture() has not a verb as a name.

Lines 54-55: declared constants are not all uppercase.

## Indention

Line 71, 78-79-80-113-114-115-116-117-197-198-211-212: four spaces could be removed.

## Braces

**BillingAccountWorker**

Line 64: the if condition has only one statement without braces.

**PaymentWorker**

Line 66: the if condition has only one statement without braces.

## File Organization

**BillingAccountWorker**

Lines 67-68, 70-71, 73, 75, 77-79, 85, 88-89, 91-92, 94-95, 98, 103, 111, 113-116, 121-122, 127-130, 133, 138-139, 144-145, 151, 154-156, 158, 161-162, 175, 180-181, 187, 194, 196, 198, 202-205, 210, 212, 216-218: limit of 80 characters is exceeded.

Lines 67, 70, 71, 73, 111, 121-122, 127, 130, 138-139, 144, 151, 154-155, 162, 175, 181, 187, 194, 218: limit of 120 characters is exceeded.

**PaymentWorker**

Lines 51-52, 57, 61-62, 64, 66, 69, 73-90, 99, 128-132, 159, 161, 163, 165, 176, 180-181, 184, 191, 193, 214, 225, 229, 231, 236, 242, 252, 256, 259-263, 274, 283, 285, 288, 293-294, 296-297, 300-305, 308, 319, 324-326, 328, 331, 335, 337, 342, 348, 350: limit of 80 characters is exceeded.

Lines 61, 64, 128-132, 159, 161, 163, 165, 181, 191, 193, 256, 260, 263, 297, 302, 305, 326, 350: limit of 120 characters is exceeded.

## Wrapping Lines

**BillingAccountWorker**

Verify 79-80, 113-117, 196-198, 210-212

## Comments

## Java Source Files

## Package and Import Statements

## Class and Interface Declaration

**BillingAccountWorker**

Line 59: (d) package variables are declared after private class variables (lines 57-58)

## Initialization and Declarations

## Method Calls

## Arrays

## Object Comparison

## Output Format

**PaymentWorker**

Lines 51

Lines 238, 268: the message "Problem getting Payment" is not clear enough for the user.

Line 337: the message "Null delegator is not allowed in this method" is not very clear.

## Computation, Comparisons, and Assignments

## Exceptions

## Flow of Control

## Files

# Other problems

In this

# Hours of work

To make this document we have spent:

* Sergio Caprara, 18 hours
* Soheil Ghanbari, 1 hours
* Erica Tinti, 18 hours