**Code Review Report**

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**The Enterprise Transformation Platform**

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| Author | Selvaraju Vignesh |

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| Version | Review & Approval Form Number | Date | Brief description of amendments and affected pages, paragraph | Author | Reviewer |
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1. **Introduction**
   1. **Purpose of This Document**

The purpose of this document is to record and track coding defects and to effectively optimize the coding process by continuously monitoring and improving the process. The inspection process occurs every Friday at 3PM and goes on for one hour to record any discrepancies in other developer’s work. Each developer is tasked with inspecting another developer’s code to find any discrepancies in the code.

* 1. **Coding Conventions**

**1.2.1 Coding Standards:**

* + Create folder under web pages, and sub folders under them. Then create the xhtml pages under the sub folders.
  + Do not have one page for all CRUD operations. Try to break it into separate pages for different operations (for e.g. create/copy/edit/display) and include them into one xhtml page (for e.g. maintain.xhtml). (\*\* exceptions exists)
  + Mostly try to use <p:> tag components (Primefaces components). <h:>, <f:> and <c:> tags are also used in the application.
  + All UI components in the page should be enclosed within ui:define, h:form and <div>s with proper styleclass. And the h:form should have a id.
  + Do not hard code the labels in the page. Define it in the Bundle\_en.properties file and use as “#{bundle.change} #{bundle.id}” in the xhtml page.
    1. **Naming Convention :**
  + Folder Name under the web pages should have a logical meaning to the use case (for e.g. for Project Management we have the folder name as PPM) and it should be in **CAPITAL LETTERS**.
  + Under that folder we have sub folders those are needed for that use case (for e.g. we have worktimematrixType folder under PPM), this folder name should follow **camel casing**.
  + Under the sub folder, we have the xhtml pages. They should be named according to the **operations** they perform as explained above.(\*\* exceptions exists)
  + Keys in the Bundle\_en.properties file should be in small letters and their values should start with a Capital Letter. Please maintain the properties file alphabetically.

* 1. **Review Defect Checklist**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Category** | **Description** | **Status** |
| 1. | Naming Convention | The naming convention on the DefaultServices under flow package are not conforming to the established rules. | FIXED |
|  | Naming Convention | The class names and variable declarations in Flowv2 packages are not conforming to the established rules. | FIXED |
|  | Coding Convention | The display messages are hardcoded in the flow.xhtml page. | FIXED |
|  | Coding Convention | The display messages in Flowuseractionflowstep.xhtml page | FIXED |
|  | Security issue | Only client side validation in flowuseractionflowstep.xhtml page and the managed bean | FIXED |
|  | Security issue | Unauthorized users are able to access flow page and modify the flow using flow.xhtml page | FIXED |

**2. Code Inspection Process**

The inspection process started with inspecting the class names, variable names and the usage of EJBs (Services) in all the files developed under the “Manage Operations” module. Any discrepancies found in the code was effectively recorded in the coding report and assigned to the respective developer. The status is updated when the issue is resolved.

**3. Modules Inspected**

Manage Operations Module:

Entities: All files under the package entity.flow

EJBs: All services under jpa.flow and jpa.service.local

JSF Managed Bean: jsf.flowv2

JSF pages: All pages under Webpages/WORKFLOW/ folder (\*.xhtml)