University of Idaho
CS481: Senior Design

Idaho Department of Health and Welfare

Time, Accounting, and Reporting System

prepared for

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1 Introduction

This section of this document should introduce this document and its audience, and the project, the system, and the software object of this SSDD. For compliance with ISO/IEC 42010:2007 (5.1) (and ISO/IEC 12207:2008) at a minimum the following information shall be included in this SSDD document: Date of Document Issue, Document Status, Document Issuing Organization, Document Change History, Document Summary, Document Scope, Document Context, Glossary, and References.

1.1 Identification

identification of the document and the software that it applies to. any and ALL applicable titles, abbreviations, id numbers, versions.

1.2 Document Purpose, Scope, and Intended Audience

1.2.1 Document Purpose

TO DEFINE THE PROJECT LIMITS

1.2.2 Document Scope and/or Context

Scope?

1.2.3 Intended Audience for Document

Intended audience? Don? IDHW?

1.3 Software Purpose, Scope, and Intended Users

1.3.1 Software Purpose

Purpose of the software?

1.3.2 Software Context

Software context?

1.3.3 Intended Users for the Software

Intended Users

1.4 Definitions, Acronyms, and Abbreviations

A Table should go here.

1.5 Document Overview

Section 2 describes software constraints imposed by the operation einvironment, System requirements, and user characteristics. After this it will identify the system stakeholders and lists/describes their concerns and mitigations to those concerns.

Section 3 of this document describes the system and software architecture from several viewpoints, including, but not limited to, the developer's view and the user's view.

Section 4 provides detailed design descriptions for every component defined in the architectural view(s).

Sections 5 provides traceability information connecting the original specifications (referenced above) to the architectural components and design entities identified in this document.

Section 6 and beyond are appendices including original information and communications used to create this document.

2 Software Requirements, Constraints, and User Characteristics

2.1 Software Requirements

Users with the proper permissions must be able to manually enter PCA codes in a form that meets DHW standards.

Users with proper permissions must be able to manually tie work effort(s) to valid PCA.

The system must provide a mechanism for time bounding PCA codes - with the ability to "deactivate" a code prematurely and an open "end" date.

Must maintain an audit trail (history of changes - people, projects, and PCAs).

The system must provide a mechanism for preventing time to be allocated to expired PCA codes.

The system must allow multiple PCA to be assigned to a work effort, over the life of the effort/project.

Must be able to assign one or more PCA codes to work effort (split percent allocation across multiple PCAs which can change during life of work effort)

Must allow work to be assigned to other entities outside DHW

Must allow work to be associated with multiple divisions or the enterprise.

The system shall track date specific vendor and employee/contractor information

The system shall allow for some description of work or project to be entered and attached.

The system shall be consistent with I-Time data

The system shall provide a means to replicate last week's assignments (repeating tasks can auto fill)

The system must have a method that allows staff to create work effort, and self-assign

Must be able to track work effort for resources, depending upon their assignment, that are either cost allocated or not cost allocated.

Must be able to break time out by time codes for work efforts, such as Vacation, Sick, LWOP, (match I-Time data since this is the system of record)

Users shall have the ability to close tasks and activities on their timesheet, and reopen if needed.

The system shall provide some mechanism (configurable dropdown) for grouping of business, program, and function of work.

Audit trail data shall include the information that was updated, modified/deleted, date created, and by whom for each item determined to be auditable.

Data for staff and projects shall include the ability to store links and attachments

The system must allow for future time entry

Must prevent work efforts to exist in the system unless they are tied to a PCA code.

All data for reporting shall be extracted via external source (EDW. Excel, etc.).

Must allow users to create a view of their I-Time timesheet. Reports must be real-time, reliable, and accurate. Includes exports to csv, Excel. Must have a sort and group function that allows work effort to be grouped by application, division, manager, etc.

The system must allow a user the ability to create a custom view of the data.

Must allow users to easily size windows.

Must be able to limit view of information presented to user to what is pertinant to that user's role.

The system shall provide search/find functionality to locate work efforts, with minimal amount of navigation (task actions less than clicks/pages/dialogs)

Must authenticate to Active Directory

Must have a role-based permissions security.

The system shall allow for automated closure of time periods for PCA and work efforts, with administrator ability to manually reopen and close for edit and approval.

The system must allow each user the ability to navigate easily by logic/functional areas, ie. Staff demographics, projects, work items/areas, time entry, etc.

Must automatically display current week when entering timesheet data.

Must have notifications (via email, context) triggered by certain events such as timesheet submittal, approvals, PCA expiration.

Users with permissions, must have the abiltiy to approve TARS weekly submittals.

3 Software Architecture

Filler

4 Design Descriptions

Fill

5 Tracability Information

Hello

6 Appendix A: Use Cases

Still to be filled.