# **Software Requirements Document**

for

# **Community Project Tracking**

**CS 472** 

## Draft 0.1

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### 1 Introduction

### 1.1 Purpose

This Software Requirements Document for Community Project Tracking is for use by the customer and development team. This document is a formal listing of the functional and non-functional requirements of the Community Project Tracking software.

### 1.2 Scope

The Community Project Tracking software will assist users in the storing and summary of various activity data.

### 1.3 Definitions

- 1.3.0.1 GUI: Acronym for Graphical User Interface. Used to refer to the look and feel the user experiences.
- 1.3.0.2 Immediately: Immediately refers to actions that will begin as soon as the user has given the input for the action to occur.
- 1.3.0.3 Should: Requirements with this marker are desired, but not crucial, and will be a part of the final deliverable contingent on time and progress.
- 1.3.0.4 Client: Julie Engfer, the Office Manager for Festival of Fairbanks.
- 1.3.0.5 User: The person, or persons, who operate or interact directly with the product.
- 1.3.0.6 Administrator: A user with special permissions as specified in section 3.1.2 User Management. Also referred to as Admin.
- 1.3.0.7 Will: Requirements with this marker are guaranteed to be in the final delivered product.
- 1.3.0.8 CPT: The name of this application.
- 1.3.0.9 Worker: The person(s) responsible for the hours worked in a Project. Users are also Workers, but there may be Workers that are not Users, e.g., "boyscouts."
- 1.3.0.10 Project: Seen at top of timesheet, e.g., "Bicycle Path."

- 1.3.0.11 Program: A project which occurs annually, e.g., "Clean Team."
- 1.3.0.12 Activity: The specific type of work a Worker does, e.g., "Ice Chipping."
- 1.3.0.13 Location: The place where an activity is done, e.g., "CORE 1st 3rd."
- 1.3.0.14 Tool/Equipment: The implement used to complete an Activity. Corresponds to "Equipment Used" on the original timesheet.
- 1.3.0.15 Comment: A remark a User may optionally provide on the timesheet.
- 1.3.0.16 Timesheet: The name for the web page on which the various data are entered.

### 1.4 References

Written with the IEEE Recommended Practice for Software Requirements Specifications as a reference and guide. The Tsunami SWR and RPC Donor SWR were referenced to find appropriate wording for some sections.

# 1.5 Revision tracking:

0.1	Feb 10	Document constructed.
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# 2 Overall description

### 2.1 Product functions

### **Priority List**

- 1 **??** Store data regarding operations
- 2 3.1.4 Generate summary reports of the data that has been gathered
- 3 3.1.1 Manage user accounts
- 4 3.1.6 Prevent unauthorized viewing or modifying of data.
- 5 3.2.1 Highly usable interface
- 6 3.1.7 Prevent loss or corruption of data
- 7 | 3.2.2 Runs on existing platform

### 2.2 User Characteristics

The CPT is intended to have a narrow user-base with a small number of administrators and a small number of users.

### 2.3 Constraints

# 2.4 Assumptions and Dependencies

1. **Language:** The interface for the user is in English.

# 2.5 Apportioning of requirements

# 3 Specific requirements

The requirements are listed and ordered in a priority list so that their order can be changed at a later date without the section numbers needing to be changed and to allow listing of the priorities in one location.

# 3.1 Functional requirements

### 3.1.1 User Management

- 3.1.1.1 The CPT will have two levels of accounts: general Users and Admins. Everything a User can do can be done by an Admin.
- 3.1.1.2 Accounts will require password authentication.
- 3.1.1.3 The CPT will ship with one Admin account.
- 3.1.1.4 Admins will be able to create other Admin and User accounts.
- 3.1.1.5 Admins will be able to reset User passwords.
- 3.1.1.6 Users will be able to change their own password.

#### 3.1.2 Data Management

- 3.1.2.1 Admins will be able to create, modify, and delete Projects/Programs.
- 3.1.2.2 Admins will be able to create, modify, and delete Locations.
- 3.1.2.3 Admins will be able to create, modify, and delete Activities.
- 3.1.2.4 Admins will be able to create, modify, and delete Tools.

3.1.2.5 Admins will be able to create, modify, and delete Workers.

#### 3.1.3 Timesheets

- 3.1.3.1 For a Project/Program on a given day, a User will be able to submit the hours worked with each Tool for each Activity for each Location.
- 3.1.3.2 Users will optionally be able to provide a comment for a Project/Program on a given day.
- 3.1.3.3 Admins will be able to submit hours on behalf of a given Worker.
- 3.1.3.4 Users will be able to browse their previously submitted Timesheets.
- 3.1.3.5 Admins will be able to view and edit the Timesheets of any User.
- 3.1.3.6 When viewing timesheets, the weather for the day will be displayed.

### 3.1.4 Reports

3.1.4.1 For a given Project/Program over a given time period, Admins will be able to see the total hours worked with each Tool for each Activity for each Location.

### 3.1.5 Data Storage

3.1.5.1 All data entered into the CPT will be saved to disk.

### 3.1.6 Security

The impact of storing personally identifiable time sheet data must be considered.

### 3.1.7 Backups

3.1.7.1 The ability to create and store copies of the task data must be considered.

# 3.2 Non-functional requirements

### 3.2.1 Interface

- 3.2.1.1 Determine what the users want from the GUL
- 3.2.1.2 The CPI will be able to display the local weather for a given day.

### 3.2.2 Platform

Several existing platforms are available. One of which is on site at the clients offices running a Windows 2003 server. The others are a few off site servers that are used for a number of different projects.

# 3.3 Performance requirements

The software must store the input data for the duration necessary to create reports on the data.

# 3.4 Software system attributes