

# **Software Requirements Document**

**for**

# **Community Project Tracking**

**CS 472**

**Draft 0.1**

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May 3, 2012

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# 1 Introduction

## 1.1 Purpose

This Software Requirements Document for Community Project Tracking (CPT) 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 CPT.

**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.
0.2	April 26	Submitted for Review.

## 2 Overall description

### 2.1 Product functions

#### Priority List

1	3.1.5	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.

## Clean Team Activity Report - Summer

Date \_\_\_\_\_ Weather \_\_\_\_\_ Temperature \_\_\_\_\_ Staff Hours \_\_\_\_\_

Activity	CORE 1st - 3rd	4th - 7th	Lacey to Dunkle & Bridge	Cushman to Wickersham & Bridge	Griffin to Wendell	North Cushman	TOTALS
Trash							
Comments							
Sweeping							
Blowing							
Washing							
Comments							
Unsanitary Deposits							
Inebriate Activity							
Comments							
Garage Maintenance							
Special Projects							
Comments							
Equipment Used							
Equipment Maintenance							
Additional Notes &							
Comments							

Figure 1: Example of former timesheet

### **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**

**3.1.6.1** The CPT will have preventative measures against the unauthorized viewing or modifying of stored data.

### **3.1.7 Backups**

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

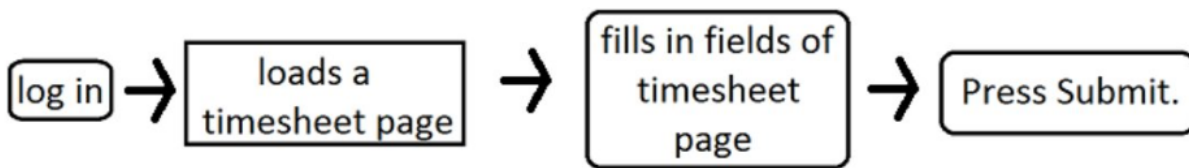
## **3.2 Non-functional requirements**

### **3.2.1 Interface**

**3.2.1.1** The GUI of the CPI will be user friendly for users operating from standard computers, smart phones, and tablet devices.

**3.2.1.2** The CPI will be able to display the local weather for a given day.





Round corners indicate user actions.  
Square corners indicate program actions.

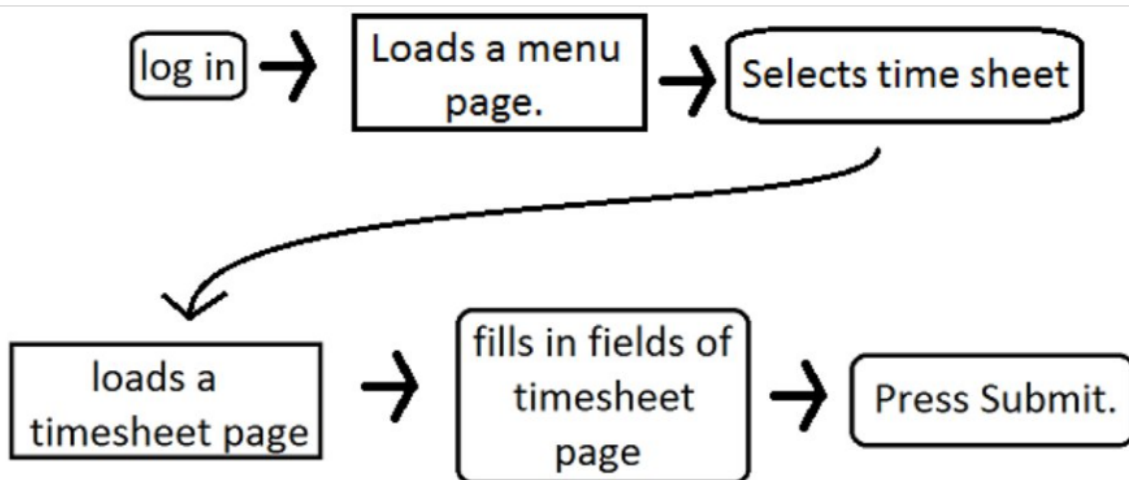


Figure 2: Diagram of user workflow

### 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