

# Software Design Document

for

## Community Project Tracking

CS 472

**Draft 0.1**

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March 1, 2012

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# **1 Introduction**

## **1.1 Overview**

This document is intended to be used by the developer of the TODO software.

## **1.2 Stakeholders**

The stakeholder in the design is also the client.

## **1.3 Definitions**

1.3.0.1 Should: Requirements with this marker are desired, but not crucial, and will be a part of the final deliverable contingent on time and progress.

1.3.0.2 TBD: Acronym for To Be Determined. This is used in this document to signify that the information necessary for a part of this document is “To Be Determined”.

1.3.0.3 User: The person, or persons, who operate or interact directly with the product.

1.3.0.4 Will: Requirements with this marker are guaranteed to be in the final delivered product.

1.3.0.5 Item: Item refers to a data object. This object is either an appointment or a task.

1.3.0.6 CSV: CSV is an acronym for Comma Separated Value. This is a standard and common format of simple tabular data.

1.3.0.7 GUI: Acronym for Graphical User Interface. Used to refer to the look and feel the user experiences.

1.3.0.8 Immediately: Immediately refers to actions that will begin as soon as the user has given the input for the action to occur.

1.3.0.9 Client: Julie Engfer, the Office Manager for Festival of Fairbanks.

1.3.0.10 Administrator: A user with special permissions as specified in section 3.1.2 User Management.

1.3.0.11 CPT: The name of this application.

1.3.0.12 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."

1.3.0.13 Project: Seen at top of timesheet, e.g., "Bicycle Path."

1.3.0.14 Program: A project which occurs annually, e.g., "Clean Team."

1.3.0.15 Activity: The specific type of work a Worker does, e.g., "Ice Chipping."

1.3.0.16 Location: The place where an activity is done, e.g., "CORE 1st - 3rd."

1.3.0.17 Tool/Equipment: The implement used to complete an Activity. Corresponds to "Equipment Used" on the original timesheet.

1.3.0.18 Comment: A remark a User may optionally provide on the timesheet.

1.3.0.19 Timesheet: The name for the web page on which the various data are entered.

## 1.4 References

The 1998 - IEEE Standard for Information Technology - Systems Design - Software Design Descriptions was referenced to produce this document.

## 1.5 Revision tracking

0.1	Feb 16	Empty document created.
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## 2 Design Considerations

### 2.1 Programming Languages

### 2.2 Project Management

This project will use `Git` version control in conjunction with `GitHub` to keep track of changes. The repository can be reached at <https://github.com/blake6489/Community-Project-Tracking>.

## 3 Domains

- \* User
- \* Role
- \* Project
- \* Location
- \*\* name - 200 char
- \* Tool
- \*\* name - 200 char
- \* Activity
- \*\* name - 200 char

### 3.1 Controllers

#### 3.1.1 Project

- \*\* index
- \*\* list
- \*\* create
- \*\* save
- \*\* show
- \*\* edit
- \*\* update
- \*\* delete

#### 3.1.2 Location

- \*\* index
- \*\* list

- \*\* create
- \*\* save
- \*\* show
- \*\* edit
- \*\* update
- \*\*delete

### **3.1.3 Tool**

- \*\* index
- \*\* list
- \*\* create
- \*\* save
- \*\* show
- \*\* edit
- \*\* update
- \*\*delete

### **3.1.4 Activity**

- \*\* index
- \*\* list
- \*\* create
- \*\* save
- \*\* show
- \*\* edit
- \*\* update
- \*\*delete

Views

**4 Views**

**5 Interface**

**6 Test Cases**

**7 Traceability matrix**

	Functional	Non-functional
??	✓	