

Software Design Document

for

Community Project Tracking

CS 472

Draft 0.1

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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 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 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”.

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

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

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

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

1.3.0.9 CPT: Internal name of the application and java package.

1.3.0.10 Worker: The person(s) responsible for the work done on a timesheet. A User has a corresponding Worker, but there may be Workers without User accounts, e.g., "boyscouts."

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

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

1.3.0.13 Activity: Left column of timesheet, e.g., "Ice Chipping."

1.3.0.14 Location: Top row of timesheet, e.g., "CORE 1st - 3rd." The word "location" isn't actually on the sheet.

1.3.0.15 Tool/Equipment: Corresponds to "Equipment Used" on the original timesheet. This is the implement used to complete a Task

1.3.0.16 Task: The data entered into a timesheet is stored in Tasks, a record comprising a Project, Worker, Activity, Location, Tool, date, hours worked and a comment.

1.3.0.17 Comment: Remarks by a User to be stored with their Task record.

1.3.0.18 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

Groovy on Grails

We chose this development platform on the basis that it will be easy to create a simple web application with a database back end.

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>. The meeting notes will be stored on Google Docs and visible to all developers of the project.

2.3 Domains

2.3.1 User

2.3.2 Role

2.3.3 Project

2.3.4 Location

name - 200 char

2.3.5 Tool

name - 200 char

2.3.6 Activity

name - 200 char

2.4 Data Elements

2.4.1 Project

index
list
create
save
show
edit
update
delete

2.4.2 Location

index
list
create
save
show
edit
update
delete

2.4.3 Tool

index
list
create
save
show
edit
update
delete

2.4.4 Activity

index
list
create

save
show
edit
update
delete

3 Views

4 Interface

5 Test Cases

6 Traceability matrix