**EXPENSE TRACKING SOFTWARE**

SYSTEM DOCUMENTATION

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**TWIN-CIRCA MARKETING**

ESPOSADO VILLAGE, CANNERY SITE

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**Introduction**

*This section should include a high level description of why this System Design Document has been created. It should also provide what the new system is intended for or is intended to replace. More detailed descriptions of the architecture and system components will be described throughout subsequent sections of the document.*

**Objectives**

General Objective

Handle employees expenses and report submission to accounting/finance department for reimbursement

Specific Objectives

Manage and recording of expenses including expense analytics

View and monitoring overall expenses per employee

Expense report submission and approval

Reimbursement/replenishment

Revolving fund monitoring

**Scope and Limitation**

Project Scope

Analytics

Employee Management (incl. revolving fund monitoring)

Expense Records and Monitoring

Expense Report Management

Payment Records and Monitoring

Vendor Records

Reporting

Activity Logs

Limitation (note: limited but subject for improvement)

Payment system/system integration

Online Transaction (Recording of Expenses, etc.)

Record Mileage expenses

Per diem expenses

**System Overview**

*This section should describe the basic system design goals, functionality and architecture. It may include a high level description of the approach used to develop the system design. It may also include high-level descriptions of the system’s hardware, software, database, and security components. Depending on the complexity of the system this section may also include component and/or contextual diagrams of the system and system components.*

System Environment

Hardware: 4GB RAM, 120GB ROM

Development: Netbeans 6.8 + Grails 1.2.1, Visual Studio Code 1.51

Unit Test: Junit

Diagrams: Visio 2007

Database Management System: MySQL

Server: Windows Server 2008

Server: Apache Tomcat 6

Revision control: Sourceforge Subversion -

https://comp5541-team4.svn.sourceforge.net/svnroot/comp5541-team4

Discussion: Google groups

Application Architecture: Single-Page Application

Languages: HTML, CSS, JavaScript, PHP 7.3

Web Application Frameworks: Vue.js 2.5, Laravel 7.28

UI Libraries: Vuetify 2.3

System Design Specification

Process Specification

Process Flow Diagram

Context Flow Diagram

Diagram 0

Data Specification

Entity Relationship Diagram

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**Appendices**

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Dashboard

Profile

Employees

Expenses

Expense Reports

Payment Records

Vendors

Departments

Job Designations

Expense Types

Activity Logs

Settings

Troubleshooting

Unable to access link

No network connection

Server down/error

Unable to login

Invalid username and password

Deactivated account

Appendix E (Configuration and Deployment)

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