

Project Plan

**2/15/2015**

***V2.0***

**JUDGE FROG**

# Revision History

|  |  |  |
| --- | --- | --- |
| Version | Changes | Edited |
| 1.0 | * Initial Draft | October 15, 2014 |
| 1.1 | * Revised formatting of document * Minor grammatical and spelling errors resolved. | November 4, 2014 |
| 1.2 | * Revised formatting of document to match all other documents * Typographical errors resolved. * Updated software specifications * More in-depth project management section | December 9, 2014 |
| 2.0 |  | February 15, 2014 |

# Revision Sign-Off

By signing the following, the team member is stating that he has read the entire document and has verified that the information contained within this document is accurate, relevant to the project, and void of errors.

|  |  |  |
| --- | --- | --- |
| Name | Signature | Date Signed |
| Brice Boula |  |  |
| Collin Duncan |  |  |
| David Tomlinson |  |  |
| Landon Westrom |  |  |

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# Introduction

## Purpose

This document is intended to provide an overview of the project plan for Judge Frog. It shall include an overview of the project itself, resources necessary for the project, a schedule for milestones as well as project deliverables, team roles and responsibilities, and risk management techniques.

## 1.2 Section Overview

**Section 2** – This section contains the background for the project and its intent.

**Section 3** – This section specifies resource requirements, both hardware and software, for the project.

**Section 4 –** This section details the management strategies for the project.

**Section 5 –** This section contains a glossary of terms useful for understanding this document.

# Project Overview

## 2.1 Project Background

Every year, there are thousands of cases involving human trafficking in dozens of courts across the United States. With data from the cases scattered across different judicial districts, it can be difficult to analyze a large amount of cases. Our supporting clients have received a grant from the National Institute of Justice to help fulfill the analysis needed of the vast amount of human trafficking crime in the United States. This grant was awarded due to the amount of interest sparked by the Federal Bureau of Investigation, the National Institute of Justice, educational scholars, United Nations, private sector, and others involved in this type of research.

## 2.2 Scope and Objectives

Judge Frog is a team of graduating students in the computer science field put together to assist the professors who introduced the project to the NIJ for funding. The Judge Frog team is focused to create a well-structured and efficient database to store human trafficking data compiled by the NIJ. The Judge Frog team will design and develop a web application that will be linked to the database and allow the data to be publicly access at no cost. The web application will provide analysis of the data and editing of the database.

# Resource Specification

## 3.1 Software

**Development Environment**

* MySQLWorkbench 6.2 CE
* PHP 5
* CakePHP Framework
* GitHub.com
* phpMyAdmin 4.0.4.2
* MySQL 5.6.14
* Microsoft-IIS/8.5
* Bootstrap 3.1.1

**General Utilities**

* Microsoft Office Suite 2010
* Google Drive
* Notepad++ 6.6.7
* Sublime Text Editor 2/3
* CoreFTP 2.2

## 3.2 Hardware

Hardware is unable to be determined because the hosting service does not provide single dedicated host, rather virtual hosts.

## 3.3 Client Contacts

**TCU Faculty Advisor**

* Dr. Donnell Payne – [d.payne@tcu.edu](mailto:d.payne@tcu.edu)
* Dr. Lisa Ball – [l.ball@tcu.edu](mailto:l.ball@tcu.edu)

**TCU Professors**

* Dr. Michael Bachmann – [m.bachmann@tcu.edu](mailto:m.bachmann@tcu.edu)
* Dr. Vanessa Bouché – [vanessa.bouche@tcu.edu](mailto:vanessa.bouche@tcu.edu)

# Project Management

## 4.1 Milestones and Deliverables

**Milestone Date**

Project Plan v1.0 October 16, 2014

Website Skeleton October 16, 2014

Project Requirements v1.0 October 21, 2014

Initial Database Test November 14, 2014

Detailed Design Document v1.0 November 15, 2014

Data Input Into Database November 21, 2014

Iteration 1 December 15, 2014

Testing Phase 1 December 22, 2014

Iteration 2 February 8, 2015

Testing Phase 2 February 12, 2015

User Manual February 13, 2015

Developer Guide February 16, 2015

Iteration 3 March 8, 2015

Testing Phase 3 March 12, 2015

Iteration 4 April 8, 2015

Finalized Versions of Project Docs April 10, 2015

Testing Phase 4 April 12, 2015

SRS April (TBD), 2015

NTASC April 18, 2015

Final Presentation May (TBD), 2015

Final Delivery of Project May 4, 2015

## 4.2 Iteration Descriptions

**Iteration 1 December 15, 2014**

* Project database completed
* Database is able to have data uploaded to it via web application prototype
* Main website skeleton completed
* Unit test development has begun
* Project Plan, Project Requirements, Design Document (v1) finished.

**Iteration 2 February 8, 2015**

* Web application completed (including database update mechanism)
* Web application unit tests complete
* Web application integration test development has begun
* Website design finalized
* First round of analytics prototyped along with beginning unit tests

**Iteration 3 March 8, 2015**

* Second round of analytics prototyped along with beginning unit tests
* First round of analytics finalized along with integration tests

**Iteration 4 April 8, 2015**

* Second round completed along with integration tests
* Finish unit/integration/end-to-end tests and begin complete testing

## 4.3 Team Member Roles and Responsibilities

* Landon Westrom – Project Lead
* Collin Duncan – Technical Lead, Database Design
* David Tomlinson – Documentation Lead, Web Application Lead
* Brice Boula – Testing Lead, Website Design Lead

## 4.4 Monitoring and Reporting Mechanisms

### 4.4.1 Meetings

Meetings shall be held weekly at 2:00 PM on Sundays in Tucker Technology Center 330. Additionally, work shall be conducted during class times on Tuesdays and Thursdays. Meeting times are subject to change based on the schedules of team members and clients.

### 4.4.2 Communication

All team members have cell phones and can communicate through GroupMe, an app that uses MMS messaging. Documents that do not contain code shall be distributed and organized via the team’s Google Drive. A GitHub repository shall act as the source control for the development of the application along with issue tracking for tracking development problems. The team shall coordinate meetings with the clients via email, phone, or intrapersonal conversation.

### 4.4.3 Requirements Control

The Testing Lead shall ensure that all iterations satisfy the requirements detailed in the requirements document for that iteration. He shall also ensure that the requirements document is kept up-to-date with the needs of the client. In the case of a change in requirements, a team meeting will be held immediately to update our plan and requirements documents to reflect the changes to best suit the client’s needs as well as maintain as much existing material as possible.

### 4.4.4 Weekly Activity Reports

Weekly Activity Reports shall contain logs of the tasks assigned to each team member for a given week, and the amount of time spent on that task. The reports shall also describe the current status of the task. Weekly Activity Reports will be posted and updated each Sunday after the week at <http://brazos.cs.tcu.edu/1415cj/war.html>.

### 4.4.5 Walk-Throughs

The team shall walk our Faculty Advisor and clients through aspects of the project on each Monday at 8:30am of Fall semester 2014. The team itself will have scheduled weekly walk-throughs on Sunday during the team’s meeting to discuss progress, status, and learning points in the development of the project.

## 4.5 Risk Management

|  |  |  |  |
| --- | --- | --- | --- |
| **Contingency** | **Probability** | **Severity** | **Mitigation Strategy** |
| Project not completed | Low | Critical | Complete work in a timely manner |
| Data is unavailable for entry into the database | Moderate | High | Work with client to ensure the data is available in advance |
| Database performance is unacceptable | Low | High | Meet with Dr. Lisa Ball to discuss database architecture |
| Illness | Moderate | Moderate | Ensure that progress is communicated properly |
| Server downtime | Moderate | Moderate | Continue development offline and test locally instead of over web |
| Extreme weather | Low | Moderate | Meeting will be cancelled and replaced with VoIP communication |
| Client availability and involvement | Moderate | High | Assign dates for required materials to client and emphasize importance. |
| Learning new technologies | Low | Critical | Dedicate time to learn and study the use of new technology and share helpful accomplishments |
| Development Environment Issues | High | Low | Ensure we maintain correct versions of all software on all computers used for development. |

# Glossary of Terms

**Application** – Group of programs designed to supply an end-user with expected functionality.

**Database** – A structured set of data held in a computer, accessible in various ways.

**Deliverable** – A product, not necessarily finished, related to the project given to the client.

**End-User** – A person or persons who will be using the web application for the specified purpose of our project.

**GitHub** – A Web service for software version control.

**Host** – A website on a server accessible over the Internet.

**Milestone** – A point at which project progress can be assessed.

**Walk-through** – Points during the project where the team describes significant project components with clients and individuals within the team.

**Web Application** – Application that is accessed by visiting a specific URL.

**CakePHP** – A free, open-source, rapid development framework for PHP.

**PHP** -- A general-purpose scripting language that is especially suited to server-side web development.