Process Plan Document

1. Introduction

1.1 Our Idea

The game software will allow users to create and join contests that utilize Global Positioning System (GPS) location to create and participate in game sessions that depend on the physical environment

1.2 Rules and Parameters

- 2 teams of equal length compete to capture and hold the most bases within a specific time frame.
- Teams begin from a centralized location, and bases generate within some radius around the location
- Every time a player enters a base, the server checks how many players have that as their most recent base, if the number surpasses the opponents and that value must be greater than and not just equal to the opponent's value, then it will change the ownership of the base, giving a point to who conquered it and taking away from the team who previously owned it.
 - Ex: Opposing team previously had 1 player on a base, to capture it, you would need a minimum of 2 players to be on the base at the same time to capture that base
- At time end, whoever has most bases wins
- You do not need to stay on a base to hold it

1.3 Definitions and Acronyms

GPS - Global Positioning System

Lead - Leader

UI - User Interface

UX - User Experience

GUI - Graphical User Interface

1.4 Project Scope

The project scope is to provide an account that will be used to participate in games, design a game scenario given a set of variables such as player count and location, track user movements and share data output and input between users using locations services, and designate a winner at the culmination of the game. Location services themselves are out of the scope of this project.

2. Process Description

2.1 Project Lifecycle

The project lifestyle will be a derivative of the waterfall method, implementing the continuous, repetitive prototyping and refinement of agile development. In specifics, we will have a modified implementation phase separating the server and client side implementations to create many, continuously refined prototypes with unit testing for all changes to ensure that we have two functional halves at the end of the implementation phase to go into full project testing.

2.2 Process Activities

Process description as a set of activities; for each activity provide the following:

Activity Name

Activity Description

Input criteria (activity inputs and how you know that they have sufficient quality)
Output criteria (deliverable document description and how you know it has been completed satisfactorily)

Documentation	Documentation on the project including all of the requirements for the project and the descriptions	None	Project documentation, checked, discussed and verified by group members
Analysis and Design Layout of the architecture and implementation schedule as described in the documentation phase		Documentation, verified above.	Architecture and project framework with team resources, checked by both the project manager and development lead
Implementation(Serv er and Client in Parallel) Coding implementation of the Server and Client architectures		Architecture, verified above.	Incrementally more refined prototype, verified in next phase.
Unit Testing Incrementally testing the code generated in the Implementation phase		Prototype code	Tested and verified code, is checked by testing many use cases.
Integration Testing Tests the integration		Full unit-tested parts	Finished project,

of the Server and Client components	tested until verified
Chefit components	

3. Roles

3.1 Team member names

Reno Sarge, Michael Shliselberg, Patrick Lowry, Daniel Bergman, and Jordan Kaplan

3.2 Roles Table

Roles	Short Description	Team Member
Project Manager	Team leader and builds architecture for the project	Daniel Bergman
Client Lead	Coding the client side	Daniel Bergman
Development Lead	Manager for all programming related tasks	Michael Shliselberg
Server Lead	Coding the server side	Michael Shliselberg
Testing Lead	Testing Lead Integration testing between client and server code	
UI Lead	UI Lead Coding the user interface	
Database Lead	Database Lead Creating the database	
UI Sub-Lead Testing and documenting for user interfactored		Reno Sarge
UX/Design Lead Designing the user interface		Reno Sarge
Server Sub-Lead Testing and documenting for server code		Reno Sarge
Client Sub-Lead	Client Sub-Lead Testing and documenting for client code	
Documentation Creating documents and presentations Lead		Jordan Kaplan
Requirement Lead Keeping track of progress and that requirements are fulfilled		Jordan Kaplan

4. Estimates

4.1 Effort Estimate

Team Member	Hours/Week
Team Member	TIOUIS/ W CCK

Daniel Bergman	12
Jordan Kaplan	8
Michael Shliselberg	8
Patrick Lowry	9
Reno Sarge	5
Total Expected Man-Hours:	420

Lines of code: total number of lines of source code you expect to have in your final product \sim 7000 Lines of Code

Defects: total number of defects you expect to find while testing your code 36-40 defects

4.2 Schedule

Provide the estimated schedule for this project in terms of a table. The table should include columns for a Task Name/ID, Task Description, a Start Date, an End Date, any dependent tasks, and the required roles involved to complete the task.

#	Task Name	Description	Start	End	Dependencies	Roles
1	Framework	Create a basic backbone of modules for a working prototype	9/26/16	10/9/16	None	Development Lead, Server/Client Development Teams
2	Restrictions Document	Create the Restrictions Documents	9/27/16	10/3/16	None	Document Lead, Restrictions Lead
3	GUI Framework	Create a basic user interface model	9/28/16	10/9/16	None	UI Design Lead, UI Dev Team
4	Game Creation/Ma nipulation	Allow for creation and altering of base game/finding games	10/9/16	10/16/16	1	
5	Team Implementat ion	Create Implementation for team	10/16/16	10/23/16	1,3	Development Lead, Server/Client Development Teams

		modules/choosing teams				
6	Scoreboard Implementat ion	Implement modules for score keeping and printing	10/23/16	10/30/16	1,3,4	Development Lead, Server/Client Development Teams
7	Networking Implementat ion	Allow for network connections between server and client	10/30/16	11/6/16	1,3	Development Lead, Server/Client Development Teams
8	GUI	Complete full GUI	9/28/16	11/6/16	2	UI Design Lead, UI Development Team
9	Testing	Test full program & interactions	11/6/16	12/14/16	1,2,3,4,5,6,7	Testing Lead, Development Team