Project 1.3 Problem Analysis

Purpose/Goals

The goal of project 1 was to create a web analytics service for administrators. The goal and purpose of my web analytics service is to provide vertical data about how users use the tracked webpage

Key Features

Some notable features that my service provides are:
- User Accounts and account management
- Ability to track as many websites as they see fit
- Geolocation of visitors
- Ability to visualize the path a user took when navigating your site. Stats are broken down by site and then by unique visitor.

Object model

Web Administrators who wish to track their users are represented by a **User** object. They sign up for the service and implement my code on their **site**. **Users** can have as many **sites** as they want to. **Users** then can track who **visits** their **site**, I call these people **visitors**. **Sites** have many **visitors**. **Users** can then view all of the **visits** that the **visitors** made to their **site.**

Event Model

- Users create accounts
- Users can edit or delete their accounts
- Users can view the home page
- Users can view their stats page
- Sites can be made
- Visitors can be made and are attached to a site
- Visits are made and logged to a visitor
- Users can sign in and out

Event model description/example flow:

- A **User** signs up for the website
- A **User** implements the code on one or more of their **sites**
- A **Visitor visits** the **site** and the embedded jQuery plugin logs this to the main server
- A **User** views the tracked information

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