|  |
| --- |
| Rose-Hulman Institute of Technology- CSSE 333 |
| Rate My World Leader |
| Problem Statement |

|  |
| --- |
| Adam Finer, John Hamilton, Thomas Bonatti |

Table of Contents

**Table of Contents1**

**1 Executive Summary2**

**2 Introduction2**

**3 High Level Problem Summary2**

3.1 Elevator Statement2

3.2 Summary of primary success criteria3

3.3 Scope3

**4 Detailed Problem Statement3**

4.1 Function3

4.2 Form3

4.2.1 Availability3

4.2.2 Usability4

4.2.3 Performance4

4.2.4 Security4

4.2.5 Maintainability4

4.3 Economy4

4.4 Time4

**5 Key Stakeholders4**

**6 References5**

**7 Appendix5**

**8 Index5**

**9 Glossary5**

1. **Executive Summary**

This document’s purpose is to describe the problem that our project will solve.  It is created in conjunction with an Entity Relationship (ER) Diagram.  This document is the first document to describe the problem, and is going to be followed by several others as described in the introduction.  This document also contains a high level problem summary, a detailed problem statement, and some information about the stakeholders.

The website known as “Rate My Professor,” is widely popular and is often used by students to get some idea of what others think of a professor or teacher at different Universities and other lower level teaching institutions.  But what if this idea could be expanded and used for something more important and widespread, such as rating world leaders and countries?  We propose that this could be easily implemented, and would give residents of any country the ability to gather information about how real people who actually live in a country view their leader.  This system would allow someone planning to move to a different country to view the ratings and opinions of that country’s leader and government, allowing them foresight into the place they may soon be residing.

1. **Introduction**

This document is the first document describing our Rate My World Leader (RMWL) system.  Also included is an ER diagram.  Following this document will be a relational schema, a security analysis, some periodic reports, and a final presentation.  This document will give an overview of the proposed system and its requirements, and the security and data analysis will go into more detail as to the implementation of the system.  The relational schema will describe the database and foreign key constraints based on the ER diagram.  The final presentation will demonstrate the completed system as well as describing the process we used in creating the system.

1. **High Level Problem Summary**
   1. Elevator Statement

Throughout the course of history men and women of our world have tried to speak about their government leaders; but there is no possible way to do that.

* 1. Summary of the primary success criteria

Our primary goal is to design and implement a database where users can rate world leaders, search for ratings of world leaders, and to learn who rules what territory.

* 1. Scope

The scope of the world leaders that will be included within the database will include what we define as only major, popular, world leaders. This could mean a leader who has majorly influenced the current world (Barack Obama), or this could mean a leader who has been popular among the media (Kim Jong Un).

The scope of the geographical data would be the major first world country, and again countries within this scope will be determined by us. All countries listed will have at least one listed world leader.

Also the scope of the states will be Indiana and the bordering states around it, all of which will have at least one world leader listed.

We will list all 7 continents, but they are all not guaranteed to have any listed world leaders.

1. **Detailed Problem Statement**
   1. Function

The final product “Rate My World Leader” will be a java program that can be accessed by users. A user will be able to rate world leaders and find out facts about them (i.e. country leading and other user ratings). A user will also be able to create and use an account to place ratings on leaders, though they will only be able to rate each leader one time, or edit that rating. Administrators will be able to do more than the common user. An admin has the ability to delete non admin users, upgrade other users to admin status, and many other privileges. The priority will be to set up a database of world leaders and their current ratings.

* 1. Form

4.2.1 Availability

* Java based application.
* Secure access for all users

4.2.2 Usability

* Easy to navigate and understand
  + intuitive interface
  + helpful and descriptive text
* Compatible with java 8

4.2.3 Performance

* Downtime should be near non-existent (under 2% of the time)
* Can support many (over 20) users at any given moment.

4.2.4 Security

* Inclusion of the SHA1 hashing algorithm for passwords
* Only administrators get special privileges

4.2.5 Maintainability

* System will be minimal and easy to maintain.
  + Self sufficient
  + System will need minimal updates and reboots once it is launched
  + reliable power supply and server host
* Creators as well as a few other’s will be administrators
  + Can add/delete accounts, as well as add/delete ratings
  1. Economy

The estimated costs will be minimal, as all that will be needed will be to host the website and database.  Outside of this there will be near zero expenses.  The value will be quite high to those using the database, as they will have an intimate knowledge with leaders from other countries.  Any costs that are generated will most likely be able to be covered by ad revenue generated by website advertisements.

* 1. Time

Our final project will have a relationship to only the present. We will only be including current world leaders and geographical locations.

1. **Key Stakeholders**

Adam Finer Group Member

John Hamilton Group Member

Thomas Bonatti Group Member

Can Kultur Project Advisor

1. **References**

"RateMyProfessors.com – Find and Rate Your Professor or Campus." Rate My Professors. Web. 3 Apr. 2015. <http://www.ratemyprofessors.com/>.

1. **Appendix**

N/A at this time

1. **Index**

Administrator (3)

Entity Relationship Diagram (2)

Lower Level Teaching Institution (3)

1. **Glossary**

Administrator- A user with privileges higher than a regular user, for instance an admin can delete non admin accounts

Entity Relationship (ER) Diagram ­ A diagram that represents the relationships between the various entities in the database in an abstract and visual manner

Lower Level Teaching Institution – A School that teachers but not at the caliber of a College or University (i.e. High Schools, Elementary Schools, etc)