

MentorWeb Request Analysis Document (RAD)

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0 Revision History

Revision	Originator	Date	Comments
1	HammerSmash	2014-02-17	Initial Revision
2	HammerSmash	2014-02-20	Adding in requirements
3	HammerSmash	2014-02-24	Adding Use Cases
4	HammerSmash	2014-03-02	Adding Sequence Diagrams, use case models, and non-functional requirements
5	HammerSmash	2014-03-04	Moved into LaTeX file, added Definitions, Acronyms, and Abbreviations section

1 Introduction

1.1 Purpose

MentorWeb is a social media web-based application for working professionals. MentorWeb provides a way for working professionals to develop a Mentorand Mentee relationship. Any user can be a mentorand a mentee at any-time. Users can follow mentors based on what the user's goals are matched to the mentors background.

1.2 Scope

MentorWeb attempts to establish a stronger network for working professionals.

MentorWeb will create a mentorand mentee relationship by allowing users who choose to sign up as a mentee to follow mentors.

MentorWeb will suggest certain mentors for each mentee by matching the mentee's aspirations to the mentor's background.

Each mentee will be able to communicate to their mentors in a variety of ways without requiring additional tools.

1.3 Objectives and Success Criteria

MentorWeb users will have a stronger professional network and professional foundation.

1.4 Definitions, Acronyms, and Abbreviations

Term	Definition
Mentor	A professional with industry experience who volunteers to advise a mentee.
Mentor	A student or worker new to the industry who seeks advising from a mentor.
Sponsor	A professional with industry experience who not only advises a Mentee, but also is involved in their career through sponsorship means, giving opportunities more directly
MentorWeb	A web-based system which aims to facilitate the mentor-mentee relationships described above.
The Program	Used in this document where not otherwise obvious: the program MentorWeb.
Shall	When used in a requirement text, signifies that the program in question is incomplete or incorrect when not in compliance with this requirement.
Should	When used in a requirement text, signifies a desirable property of the target system, but one without which the system can still be considered complete and correct.
API	Application Programming Interface

1.5 References

IEEE Std 830-1998, IEEE Recommended Practice for Software Requirements Specifications

1.6 Overview

MentorWeb attempts to allow the user to establish a stronger professional network through facilitating mentor-mentee relationships.

2 Current System

MentorWeb as a system has yet to be implemented; this document covers a new system which does not replace an existing one.

3 Proposed System

This section describes the requirements and specifications of MentorWeb.

3.1 Overview

MentorWeb attempts to allow the user to establish a stronger professional network through a mentor-mentee relationship.

3.2 Functional Requirements

ID	Description	Priority
3.2.0.1	Users shall be able to decide to keep their conversations off of server storage	EF 1
3.2.0.2	MentorWeb shall allow sponsors with other companies	EF 2
3.2.0.3	Administrative users shall be able to suspend users for abusing MentorWeb	EF 3
3.2.0.4	In the event the user opts to deactivate his or her account, MentorWeb shall support this, but shall not delete user data to provide for the case that the user opts to re-register	EF 4
3.2.0.5	MentorWeb shall be a web-based project, and keep an open API for expandability	EF 5
3.2.0.6	MentorWeb should be designed to easily migrate to a mobile application.	DF 1
3.2.1.1	MentorWeb shall have a login process and a registration process for users	EF 6
3.2.1.2	MentorWeb shall allow login with the social media outlets Facebook and LinkedIn	EF 7
3.2.2.1	MentorWeb users shall be able to register as just a mentor, just a mentee, or both	EF 8
3.2.3.1	MentorWeb users shall be able to input and display their professional information (background, aspirations, skills), and/or pull such information from an existing LinkedIn profile	EF 9
3.2.3.2	MentorWeb shall store conversations not taken offline for one year	EF 10

3.2.3.3	Users shall have membership periods for mentor-mentee relationships that can be extended	EF 11
3.2.3.4	MentorWeb users should be able to block communication from other registered users	DF 2
3.2.3.5	MentorWeb users shall be able to make some of their information private	EF 12
3.2.4.1	MentorWeb shall display information about number of mentors currently online, total number of registered mentors, how many pairs of mentor-mentee exist, how often conversations occur, and duration of membership	DF 3
3.2.4.2	MentorWeb should have a news channel on users' start page displaying current articles related to the user's interests	DF 4
3.2.4.3	MentorWeb shall have a mentor rating system	EF 13
3.2.4.4	MentorWeb shall include a comments section for other mentors or mentees to be able to leave comments on their effectiveness, etc.	EF 14
3.2.4.5	MentorWeb shall show a history of past relationships of users and their mentors	EF 15
3.2.4.6	MentorWeb mentors can have several mentees and vice-versa	EF 16
3.2.5.1	MentorWeb shall allow searching for mentors or mentees from user home page	EF 17
3.2.5.2	MentorWeb shall send users email notifications when making requests to be a mentee for any mentor	EF 18
3.2.5.3	MentorWeb shall not force members to be in a mentor-mentee relationship; it is up to the mentor and mentee involved to both agree on the relationship	EF 19
3.2.6.1	MentorWeb shall run on target browsers Firefox and Internet Explorer	EF 20
3.2.7.1	MentorWeb shall allow for various online communication methods, such as appointment systems (calendars), chat, messaging, and/or audio/video calls	EF 21

3.2.7.2	MentorWeb shall have communication methods embedded into the website	EF 22
3.2.8.1	MentorWeb shall match mentees with mentors based on server-side cloud code matching mentee aspirations with mentor background and/or match mentee background with mentor background	EF 23

3.3 Nonfunctional Requirements

3.3.1 Usability

There should be a help feature and options to guide new users through usage of the system

3.3.2 Reliability

Website should be reliable.

Website must display correctly in the target web browsers. (see 3.2.6.1)

3.3.3 Performance

Must provide enough internet bandwidth. There should be a balance of speed and cost.

The functions of the website should run quickly.

Any displayed information should be updated within a reasonable amount of time (no more than 1 minute lag)

Website should be able to scale to accomodate a large user base

3.3.4 Supportability

Guided troubleshooting of common errors should be included in the software system so users do not have to complain to get a problem fixed.

Event logging

Complete documentation of how to use the software

System monitoring (network, memory usage)

3.3.5 Implementation

Internet access is required

Software must be secure (safe from being broken by hackers or incorrect inputs)

User input into the system should be validated and sanitized to ensure security and avoid injections

3.3.6 Interface

Website should be aesthetically pleasing and look professional

Users should not have to search for a button or be confused as to how to use a function

Placement of buttons should be obvious for users

3.3.7 Packaging

Include an easy one-click interface to install software

Include a cloud option to access the software but make sure user has necessary drivers and software to run our services (automatic check)

3.3.8 Legal

Must avoid copyright infringement of any kind

Avoid offending users, all content should be checked and approved

Software should not break any law or enable users to break any laws

Privacy of user information marked private should be maintained

User must accept a legal agreement before using the software

3.4 System Models

This section displays several models that describe various aspects of the system to be implemented.

3.4.1 Scenarios

3.4.2 Use Case Model

3.4.3 Object Model

3.4.4 Dynamic Model

3.4.5 User Interface

4 Glossary

5 Appendices

5.1 Hardware Requirements

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