

Mentor Management System

Requirements Analysis

1. INTRODUCTION

PURPOSE OF THE SYSTEM

The transition between High School and University can be such a grueling experience. Students encounter many challenges during the year; many of them are unable to overcome those challenges because of a lack of proper guidance. There exists mentorship programs on campus to tackle those problems, but most of them have proved ineffective. The main reasons are because prospective mentees are not motivated enough to walk to a particular location in order to sign up for the program and because of an inefficient follow up structure. The Mentor Management application is being developed to bridge that gap. It aims to create an efficient system that allows mentees and mentors to sign up at their comfortable location and using any device. It also enables mentees to receive briefings and schedule meetings from the application. This application serves as a connection between mentees and mentors.

SCOPE OF THE SYSTEM

The system allows screen size responsiveness and can thus run on any kind of device including desktop computers and mobile devices. It is designed as a self-service application where mentees and mentors can fill information themselves. It also comprises an administrator whose job is limited to monitor the transactions between mentors and mentees. A help menu is incorporated for users who are struggling to use the application. In developing the application we assume that prospective mentees know the importance of getting mentored, the job of making students aware is generally carried out by the Counselling and Career Department of the university. The system is built only for the purpose of facilitating fast and reliable sign up process. Although the application enables scheduling of meetings, those meetings are to be held physically, that is, the pair has to meet in person. The system does not allow online meeting through audio or videoconferencing.

OBJECTIVES AND SUCCESS CRITERIA OF THE PROJECT

The system will be considered a success if:

- It allows any kind of users (Administrator, Mentor, and Mentee) to sign up and login.
- It successfully captures the users' information into the database.
- It facilitates the matching of Mentor-mentee according their background.
- It is able to schedule meetings of the pair.

DEFINITION, ACRONYMS AND ABBREVIATION

Application System: An application program (app or application for short) is a computer program designed to perform a group of coordinated functions, tasks, or activities for the benefit of the user.

System administrator: A person who is responsible for managing a multi-user computing environment.

Mentor: A person who gives a younger or less experienced person help and advice over a period of time, especially at work or school.

Mentee: Someone who is given support and advice about their job by a mentor. **Screen size responsiveness:** A design method that allows tailoring of content to different screen sizes. **User-friendly System:** A system that is easily operated and understood by means of a straightforward guide in jargon-free language.

REFERENCES The above definitions were taken from the CAMBRIDGE ONLINE DICTIONARY and Google-enabled dictionary.

OVERVIEW

This Requirement Analysis Document provides the description of the general outlook of the Mentor Management Application. The proposed solution of the system and all the functional and non-functional requirements are found below to help the stakeholders have a full understanding of the system which will deliver SSS Mentor-mentee services.

2. Current System

Currently there is no system that can help university students find a mentor. A mentor is necessary to assist students know what careers correspond to the degree that they are studying or hope to study, what combination of courses are recommended for a career their hoping to pursue and overall give the particular student advice on their professional life. Because tertiary is very challenging and confusing for a lot of students, guidance from a more experienced individual that has either been through the same challenges and was able to rise above them or someone who has achieved this student's set goals, would prove very resourceful to a majority of students. For instance, a student studying a BSc in Biology might have passion about nature and animals but in the midst of their university career start to wonder what they could do with their qualification, or whether they need to study further to enter their career of choice. A lot of students spend most of their time on their mobile smart phones/tablets and mentees spend more of their time in front of a computer which is why the system is a web application.

3.1. Functional Requirements

Mentors

- Need accurate information about mentee; to accept a mentee they want to help.
- Needs to be able to opt-out of mentoring more mentees; if they can't help anymore mentees.
- Needs to be able to deactivate their system account.
- Needs to see when their mentorship is requested; to know whose profile to view.
- Needs to be able to accept request; so mentee knows to contact them.
- Needs a user-friendly system.
- Efficiency
- Quick Responsiveness.

Mentee

- Needs accurate information about mentor; to make a better informed choice.
- Needs to find a mentor that matches their preferences; to get an effective mentor.
- Needs to know that the mentor is credible; for safety reasons and effectiveness.
- Needs to indicate interest in being mentored by particular mentor.
- Needs feedback on whether mentor is interested; to contact the mentor.
- Needs to be able to deactivate their system account.

- Needs a user-friendly system.
- Constant interaction and communication with their mentor.
- Efficiency.
- Quick responsiveness.
- Needs accurate storage of their personal data; mentor is matched more accurately.

Administrator

- View feedback about mentor; to know which mentors need help or whose accounts to deactivate.
- Notifications when a new mentor registers to system; so they can verify them.
- View mentor profiles; to use to verify the mentor.
- Needs to be able to deactivate users that are misusing the system
- Have to verify the mentor on the system; mentees need verified mentors.

USER	FUNCTIONAL REQUIREMENTS	PRIORITY
<i>General</i>	System must allow user to register and specify the type of user (Mentor/Mentee).	H
	System must allow user to login using a username and password	H
	System must allow user to deactivate their account	M
	System must allow user to update their profile.	M
<i>Mentee</i>	System must allow mentee to fill out a form detailing preferred mentor.	H
	System must allow mentee to update their mentor preferences.	M
	System must allow mentee to search for a mentee; provide filtered suggestion based on preferences.	H
	System must allow mentee to view a mentor's profile (including rating).	H
	System must allow mentee to request a mentor's mentorship.	H
	System must allow mentee rate a mentor; provided the two are paired therefore if mentor has accepted the request.	H
	System must allow mentee to mentor's contact details; provided mentor has accepted the request.	H
<i>Mentor</i>	System must allow mentor to fill out a form detailing preferred mentee.	H

<i>Administrator</i>	System must allow mentor to receive request for mentorship.	H
	System must allow mentor to view a mentee's profile	H
	System must allow mentor to accept a request; pairing the two.	H
	System must allow admin to verify new mentors.	H
	System must allow admin to view mentor ratings.	M
	System must allow admin to deactivate a mentor's or mentee's account.	M

3.2. Non-functional Requirements

Usability

- All delays in the system longer than 0.5 seconds will produce a dialog box that says "Please wait."
- It is possible to reach any given system function from the main window in less than 4 clicks.
- It is possible to accomplish any given task with just the keyboard, without the mouse.
- All buttons in the system will adhere to established button convention (link to established button convention regarding size, naming, position, etc.)
- All screens will have a help button. Each help button on a given screen must provide at least one 'topic' for each control on the screen.

Reliability

- The system will check the all operator inputs to see that they fall within their required ranges.
- The system will check all disks for bad blocks each time it is booted.