Empty Coffee Cups

CIS Mentoring Program System Vision (Small Project)

Version 2.0

Revision History

Date	Version	Description	Author
29/Jan/19	1.0	Preliminary Program Overview	Allen Corona, Cedric Fenn, Courtney Ellington, Elizabeth Smith, Tim Lesher, Whitney Jewett

Table of Contents

Vision (Small Project)

Introduction

The purpose of this document is to collect, analyze, and define high-level needs and features of the University of Louisville CIS Mentoring Program System. It focuses on the capabilities needed by the stakeholders and the target users, and why these needs exist. The details of how the University of Louisville CIS Mentoring Program System fulfills these needs are detailed in the use-case and supplementary specifications. The introduction of the Vision document provides an overview of the entire document. It includes the purpose and references of this Vision document.

1.1 References

1. Narrative Document
2. Vision Document Template
3. Systems Analysis & Design by Dennis, Wixom, and Tegarden
4. Dr. Barker

Positioning

1.2 Problem Statement

The problem we are addressing is too many students are dropping out of the Computer Information Systems program here at UofL. The majority of drop-outs are occurring after the beginning CIS classes due to misunderstanding of the material and lack of support.

The problem of	lack of support and community within the CIS program at the University of Louisville
affects	the CIS program, the university, CIS majors, alumni of the University of Louisville CIS program, and the Louisville community
the impact of which is	low student retention in the CIS program at the University of Louisville
a successful solution would be	to create a platform that allows students and alumni to serve as mentors to each other and students in the early stages of the program

1.3 Product Position Statement

Our solution is to design a mentoring system that helps lowerclassmen, upperclassmen, and alumni to have a platform to connect and provide support.

For	University of Louisville students and alumni
Who	are in or have graduated from the CIS program
The (product name)	University of Louisville Mentoring Program System
That	creates a mentoring system which provides support and a community
Unlike	the current program position which lacks a method of connecting CIS students and professionals
Our product	provides a way for lowerclassmen to receive academic support from upperclassmen, upperclassmen to receive professional

	advice from graduates of the CIS program, and students and alumni of all levels to network

Stakeholder and User Descriptions

The stakeholders of the system are the CIS program, the University of Louisville, and local businesses. The users of the system are the students and alumni which are represented in the system as mentors and mentees.

1.4 Stakeholder Summary

● University of Louisville ● Computer Information System Program ● Local businesses	● The university that the mentoring system is for ● The program that the students and alumni go through ● The businesses in and around Louisville that hire students and alumni from the CIS program	● Approves funding for the project/ mentoring system ● Ensures that the system will be maintainable, monitors the project's process ● Ensures that there will be a market demand for the product's features

1.5 User Summary

● Students ● Alumni ● Administrator	● Students and Alumni will connect with each other as mentors and mentees ● The administrator will be the current CIS chairman	● Students and Alumni will set up accounts within the system to become mentors and mentees ● The administrator will capture, details, produce reports and coordinate communication, post job openings or events.

1.6 User Environment

1. The mentoring system will be used by students and alumni from the CIS program at the University of Louisville

2. The system should provide a platform for students and alumni to network and provide support throughout their time in the CIS program and afterwards.

3. Tasks included in the system include:
    a. Joining the system
        i. Joining will approximately take a few days because they must be authorized to join
    b. Uploading a profile picture
        i. Uploading will only take a few moments to allow the user to select their picture and upload it to their profile page
    c. Being matched with a mentor/mentee
        i. Matching may take a few minutes to allow the mentors and mentees to find a match that have similar interests

d. Donate
    i. Donating may take a few minutes to allow the user to enter their credit card information

4. There are currently no platforms used through the CIS program at UofL to provide mentoring. UofL provides a platform called REACH that is located in the library and has several CIS tutors, but they do not support all CIS classes or support for after graduation.

1.7 Summary of Key Stakeholder or User Need

As discussed in the Narrative Document on page 1, the problem is that student are dropping out of the C.I.S program at U of L due to lack of understanding the material and lack of guidance. There is currently no solution for these problems. This mentor system will help guide students if they are having issues with their classes and lead them to a better future. Doing this will help the stakeholders goal of reaching less drop out and higher graduation rates.

• Students • Alumni • Donors • Administrator	• Students are currently in the CIS program • Alumni are graduates that were previously in the CIS program • Donors are people who wish to donate money to the CIS program • The administrator is the CIS department chair	• Students will be impacted by implementing the mentor system because they will be mentees/mentors • Alumni will be impacted by implementing the mentor system because they will be mentors • Donors will impact the CIS program by increasing its revenue • The administrator impacts the system by improving it and the CIS program

1.8 Alternatives and Competition

An alternative available to the mentoring system is to not take action and allow the retention rate to correct itself with the growing economic need for IT professionals. Competitors of our system are third-party mentoring platforms such as Chronus and MentorcliQ. Vendors, such as these, offer basic processes such as enrollment, matching, communication and reporting. While these processes are required of our system, additional capabilities such as customized user feedback and multifunctional and specific matching.

Product Overview

1.9 Product Perspective

The final product can be related to LinkedIn and their user environment. Some of the main features for the product is user accounts, networking, job postings, and a support page. These features relate to the features that LinkedIn provides. The product itself is independent and self-contained.

1.10 Assumptions and Dependencies

- Users should have the ability to enroll into the mentoring program.
- The mentoring system should have a database of users.
- The content management system should be able to match mentees with a mentor, run reports and analytics, and have the ability to communicate between users.

- The payment management system should accept donations.
- The mentoring program should be available for use on computer hardware.

Product Features

- Gather student/alumni information: Take full name, address, email address and student ID.
- Create profile for student/alumni: Having a profile that identifies them with a picture and a description of their demographics and special interests.
- Connecting Mentees to Mentors: Users can request a mentor by viewing their profile and selecting "Request as Mentor". The mentor can accept or reject the user to be their mentee.
- Accepting donations: Accepting donations for the CIS program.
- Communication capabilities: Email blasting and messaging between Mentees and Mentors.

Other Product Requirements

- Standard computer with connection to the internet.
- Need information and student identification number.
- Support page with FAQ section for users. The technical feasibility considerations include a content management system, a payment system, and a database system. The economic feasibility considerations include an increase in revenue by retaining more students. The program will collect about $36,000 per student in tuition after their freshman year. Another revenue source is the collection of donations. To increase the student retainment and donation collection, the mentoring system will create a sense of community for CIS students and alumni. Costs of the mentoring system includes costs of creating the system and maintaining it, including SW and licensing fees. Organizational feasibility considerations include the stakeholder analysis, which consists of the system users, the champion, and the organizational management and their roles in regards to the project. In our system, our team is the organization management. The system's success is determined on if it's used or not, which makes the mentors and mentees the users. The champion is Professor Barker because he is the one who initiated and is promoting the mentoring system project. He is providing resources to our class to implement the system.

Appendix A

The technical feasibility considerations include a content management system, a payment system, and a database system. The economic feasibility considerations include an increase in revenue by retaining more students. The program will collect about $36,000 per student in tuition after their freshman year. Another revenue source is the collection of donations. To increase the student retainment and donation collection, the mentoring system will create a sense of community for CIS students and alumni. Costs of the mentoring system includes costs of creating the system and maintaining it, including SW and licensing fees. Organizational feasibility considerations include the stakeholder analysis, which consists of the system users, the champion, and the organizational management and their roles in regards to the project. In our system, our team is the organization management. The system's success is determined on if it's used or not, which makes the mentors and mentees the users. The champion is Professor Barker because he is the one who initiated and is promoting the mentoring system project. He is providing resources to our class to implement the system.