Project Gaia

Memo

To: Dean From: Group A CC: Dr. Robert M. Barker

Project Gaia is a system being created to further increase the retention rate of current and future Computer Information System Major students. The system will focus on creating a mentorship program for seniors to help underclassmen students better prepare for future classes. The implementation of the new system hopes to not only retain more students in the CIS department, but also involve Alumni that have graduated from the University of Louisville.

The overall goal of the new system is to create a stronger community for students and alumni to increase retention rate and graduation rate within the CIS department. Creating this new system will help students who are struggling with classes like CIS 199 and CIS 150 seek help with seniors who have already taken said classes. The system will also allow alumni to directly donate to the CIS department within the College of Business.

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EXAMINATION OF THE LACK OF RETENSION FOR CIS MAJORS IN THE UNIVERSITY OF LOUISVILLE

[Project Gaia]

Prepared for

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System Request – Project Gaia

Project Sponsor:

• Robert Barker, Chair of CIS Department

Business Need:

- Increase Student Retention Rate
- Increase Student Graduation Rate
- Decrease Student Fail Rate

Business Requirements:

- Enroll Students and Alumni
- Authorize users to participate in system
- Match freshman student users with upper class users
- Match upper class students with alumni user
- System to establish communication between mentor users and mentee users
- System for users to post general information, job offers, etc.
- System to take donations on behalf of the department
- System to generate usage reports on mentor relationships, user activity, and active users.
- System to generate quarterly/annual reports for review

Business Value:

- Increase of \$700,000 in tuition revenue
- Increase Alumni donations
- Increase Student Graduation Rate
- Decrease Student drop rate

Group A

Project Gaia Vision (Small Project)

Version 2.0

Revision History

Date	Version	Description	Author
29/01/2019	1.0		Group A- Sam, Lazaro, Ryne, Samantha, Bailey, Shannon
13/02/2019	2.0		Group A- Sam, Lazaro, Ryne, Samantha, Bailey, Shannon

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Vision (Small Project)

1. Introduction

The purpose of this document is to collect, analyze, and define high-level needs and features of the Mentorship System. It focuses on the capabilities needed by the stakeholders and the target users, and **why** these needs exist. The details of how the Mentorship System fulfills these needs are detailed in the use-case and supplementary specifications.

1.1 References

2. Positioning

2.1 **Problem Statement**

The problem of CIS student retention affects the University of Louisville Business School by accepting a loss of \$387,180 every semester. A mentorship program that would allow students to receive guidance in CIS classes would successfully solve the problem.

oblem of	CIS student retention.		
	University of Louisville Business School		
pact of which is	An opportunity cost of \$387,180		
essful solution would be	A mentorship program that allows students to receive guidance in CIS specific courses.		

2.2 Product Position Statement

This product is for the University of Louisville CIS program with students who face challenges in CIS specific courses. The mentorship program will provide guidance to students seeking help and will match underclassmen with upperclassmen and upperclassmen with alumni. It will increase the retention in the CIS program and increase revenue for the university.

	University of Louisville CIS students
	Face challenges in CIS specific courses
roduct name)	Mentorship system
	Will provide guidance to students seeking help
	Previous mentorship programs will match alumni as well
oduct	Will increase retention in the CIS program and increase revenue.

3.

Stakeholder and User Descriptions

3.1 Stakeholder Summary

Group A

University of Louisville Business School.	The business school at the University of Louisville offers a variety of programs with CIS being one of the most sought after and largest growing programs.	The University of Louisville BS will: ensures that the system will be maintainable ensures that there will be a market demand for the product's features monitors the project's progress approves funding.
Jefferson County Government	The Jefferson County government covers the Louisville Metro area.	Provides a market environment for the mentorship program.

3.2 User Summary

University of LouisvilleThe StressBusinessU School, CISstudentsU	he CIS udents at the inversity of ouisville	Uses the mentorship program for increased success in courses.	University of Louisville is responsible the CIS students involvement in this mentorship program.
students			

3.3 User Environment

1. Number of people involved in completing the task? CIS 320 groups and CIS 420 groups.

3.4 Summary of Key Stakeholder or User Needs

[List the key problems with existing solutions as perceived by the stakeholder or user. Clarify the following issues for each problem:

- Lack of retention of CIS students past CIS 199.
- The mentorship program will allow students to help younger students who have already gone through the classes succeed.

• University of Louisville Business School and Jefferson County want increased graduation of students with a CIS degree.

ns	ng adequate	ns made the business	ent system integrated into
	amounts of	school.	the mentorship program
	donations to		website.
	fund the CIS		
	program.		

3.5 Alternatives and Competition

- 1. Students can currently use tutoring programs on campus, but they are not CIS or business school specific.
- 2. Mentorship programs offered through general outreach programs aimed at college students can be found and degree specific matches can be made.

4. Product Overview

- Product perspective
- Assumptions and dependencies

4.1 **Product Perspective**

• This product is independent and totally self-contained.

4.2 Assumptions and Dependencies

• A specific operating system will be available for the hardware designated for the software product, if the operating system is not available the vision document will need to change.

5. Product Features

Authorization – The administrator will be allowed to dictate who will be able to move on the next step of the program. If a user is blocked by the administrator, said user will not be able to gain access to the website.

Matching – This part of the website, will match mentors and mentees. The system should be able to assign freshmen mentees with upperclassmen mentors of the same degree program. Furthermore, seniors will be matched with alumni that can possibly help seniors reach their academic goals and creating a social network for future employment.

Communication – This part of the website can be broken down into 2 different parts. One part of the website should be solely for establish a way for mentors and mentee to communicated with each other via a messenger. The second part of the website would act as a forum for general questions, and job postings from alumni that are seeking soon to be graduates.

Donations – The website should have the capacity to accept donations on behalf of the alumni. This step requires a PMS system to be in place.

Reporting – The website should have a way to gather analytics about usage around the website. Gathering information on how many students log in, and how connections are being established around the website. Secondly the website should be able to pull reports for quarterly or end of year review.

6. Other Product Requirements

- Mentorship program needs to be able to be independent and sustainable as a University of Louisville Business School project.
- Mentors and mentored need access to the system and it needs to operate on business school networks.

	Mentorship Program Cost Analysis															
Revenue	۲	0	Y1	Y2	Y	3	Y4		Y5		Totals			INFLATION RATE		2.00%
	Donations ¹		0	5,000	5,100	5,202		5,306		5,412	2	26020		DISCOUNT RATE		6%
	Annual Tuition ²		0	384.000	391.680	399.514		407.504		415.654	199	98351				
	Starting Budget	400	0	-	-	-		-		-		4000				
		400	0	389,000	396,780	404,716		412,810		421,066	•			Net Present Value	\$1,237,102	
						,		,		,	Total Reven	nue –	\$ 2,028,371.62			
	۲	0	Y1	Y2	Y	3	Y4		Y5			=		Break Even Point	4.1	
Costs																
Labor ³														ROI	509%	
	Database Admin	87,000)	-	-	-		-		-	87	7,000				
	Project Lead	130,000)	0	-	-		-		-	130),000				
	Business Analyst	88,270)	0	-	-		-		-	88	3,270				
	Developer	68,000)	0	-	-		-		-	68	3,000				
Operation	al															
	Maintenance			2,000	2,040	2,081		2,122		2,165	10),408				
	DB License (MySQL)			1,000	1,020	1,040		1,061		1,082	5	5,204				
	Domain Name			10	10	10		11		11		52				
	Content Mgmt System (.NET)			800	816	832		849		866	4	4,163				
	Payment Mgmt System (PayPal)			20	20	21		21		22		104				
	Consumables			960	979	999		1,019		1,039	4	1,996				
		373,270)	4,790	4,886	4,984		5,083		5,185	398	3,197				
											Total Costs	_	\$ 398,197.35			
	Cash Flows	(369,270))	384,210	391,894	399,732		407,727		415,881		-				

¹Donations based on 100 alumni donating \$50 each a year

²Tuition based on 80 Residential CIS Students @ 12 hrs/Semester

³DB License for Standard Microsoft SQL Server

⁴Labor Based on US Bureau of Labor Statistics

Activity Diagram

Summary:

The purpose of our activity diagram is to demonstrate the logic of our system design. The diagram shows the process flows required for each system action that in turn represents which type of user will be affiliated with it.

Sub-phase 1 demonstrates that a user will be authenticated through a third-party system or administrator or blocked from entry. If the user is authenticated, he or she will be enrolled and added to the program as either a "Student" or "Alumni".

Sub-phase 2 demonstrates that the Student will be separated into either Seniors or Underclassmen. Seniors will be divided as either a Mentor or Mentee. Senior mentors will be matched with appropriate underclassmen and encouraged to communicate with one another after providing their contact details. Alumni will be divided as Mentors or prospective employers and supporters. Alumni mentors will be paired with appropriate senior mentees. Senior mentees will be encouraged to communicate with their alumni for career advice or presented an alternative platform to job search.

Sub-phase 3 designates a Usage action that measures which sections of the system design is being utilized the most by users. This would in turn enable a reporting feature to display website usage statistics. All users will be given an option to support us by donating.

(*) This system design assumes that the design implementation will be entirely autonomous of the University of Louisville databases, so the user would have to at least create a profile that can be authenticated by administrators or an authentication algorithm.



System Requirements

The following requirements have been chosen to help identify necessary functions that our system should be capable of as well as non-functional standards and desired features.

Functional Requirements

En k k c u n c a ii c a	rollment (F01> The site will create account for all new users and ogin must trigger enrollment and profile generation. (F02> The site will determine between underclassmen, upperclassmen, and Alumni and enroll them as a mentee, nentor, or Alumni. (F03> The site will ask alumni for current work information and former major. (F04> The enrollment form will collect basic demographic nformation (Age, gender, highest level of degree, occupation) (F05> The site will include an option to opt in to an email list attached to the enrollment form.
C	Donations
< < ti	F06> The site will accept no less than \$1 donations. F07> The site will process donations and distribute hem to the proper CIS departments accounts.
L < tr 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Jsers (F08> The site will have a form that allows Upperclassmen o give specific information about classes and teachers. (F09> The site will have a discussion board so students can oost questions. (F10> The system will match underclassmen to upper classmen as well as upper classmen to Alumni (F11> The System will post general information for users.
F 	Regulatory F12> The site will allow admin to authorize new admin. F13> The system will limit access to authorized users. F14> The system will generate usage reports on mentor elationships, user activity, and active users.

<F15> The system will generate quarterly/annual reports for review.

Non-Functional Requirements

Availability <
 Performance <nf06> The system will validate users within 5 seconds. <nf07> The system will have a sufficient amount of bandwidth. <nf08> The system should be properly secured to protect user information. </nf08></nf07></nf06> Adaptability <nf09> The system will remove students who switch majors. <nf10> The system should be easily maintainable. </nf10></nf09>

Proposed Mentorship System Use Cases

The following Overview, Essential Use cases provide the three main user interaction scenarios with the system and traces these interactions to the technical system requirements.

Use Case ID:	001
Name:	Enroll Mentees
Primary Actor:	Underclassmen Student
Description:	An Underclassmen Student wishes to enroll as a mentee in the system. A successful end would be account creation/login triggering enrollment and profile generation. A failed end would be account creation/login not triggering enrollment and not generating a profile.
System Requirement:	Account creation and login must trigger enrollment and profile generation.

Use Case ID:	002
Name:	Enroll Alumni
Primary Actor:	Alum
Description:	An Alum wishes to enroll as a mentor in the
	system. The alum starts at the create
	account/login screen. A successful end would be
	account creation/login triggering authorization,
	enrollment, and profile generation. A failed end
	would be account creation/login not triggering
	enrollment and not generating a profile or an
	unauthorized alum enrolling as a mentor.
System Requirement:	After account creation, the system must
	authorize the alum, enroll them as a mentor, and
	generate a profile.

Use Case ID:	003
Name:	Enroll Mentors
Primary Actor:	Upperclassmen Students
Description:	An Upperclassmen Student wishes to enroll as a
	mentor in the system. The student starts at the
	create account/login screen. A successful end
	would be account creation/login triggering
	authorization, enrollment, and profile generation.
	A failed end would be account creation/login not
	triggering enrollment and not generating a profile
	or an unauthorized student enrolling as a mentor.
System Requirement:	After account creation, the system must
	authorize the upperclassmen student, enroll
	them as a mentor, and generate a profile.

Use Case ID:	004
Name:	Profile Matching
Primary Actor:	Mentor and Mentee
Description:	The system must be able to assign a mentee a
	mentor, that share the same experience needed
	for his/her degree.
System Requirement:	System must be able to distinguish what students
	share the same major, and who previously has
	taken CIS 199 and 150, to be considered a
	mentor.

Use Case ID:	005
Name:	Accept Users
Primary Actor:	Head of CIS department
Description:	Some people will not be able to mentor others, the head of the CIS department, will have the power to decide who can and can't be a mentor.
System Requirement:	The system must recognize who has authentication to access the system and who does not.

Use Case ID:	006
Name:	Deny Users
Primary Actor:	Head of CIS department
Description:	The administrator can revoke access to the system and he/she sees fit.
System Requirement:	System must deny access to users that the system administrator has denied at the registration phase or later.

Use Case ID:	007
Name:	Generate Report
Primary Actor:	Head of CIS department
Description:	The administrator must be able to pull up reports
	regarding the system. How many mentors and
	mentees are using the system and for how long.
System Requirement:	System must track simple data regarding the
	users for example, how many times do users use
	the service and for how long. How many people
	are happy with the service.

Use Case ID:	008
Name:	Donations
Primary Actor:	Alumni
Description:	The system should allow for Alumni to donate
	directly to the CIS department.
System Requirement:	A payment management system must be set up
	to accept donations

Initial System Architecture Considerations

The following details proposed system diagrams, data flow, and initial architecture needs/recommendations for system startup.

1) Design Viewpoint

Hardware/Software Needed

1) A Content Management System will house the website and features to complete desired tasks.

2) The Database for the system will store and extract data collected from the CMS.

3) The Payment Management System will securely handle donations to the CIS department.

2) Realization Viewpoint

Specific Recommendations for Hardware/Software

Ultimate Data Lake: Amazon Web Services (already in use with existing UofL Databases)

CMS: .NET Framework

DB: Microsoft SQL in conjunction with Existing UofL COB Database to both store new report data and extract existing student/alumni data

PMS: PayPal

These recommendations are the best potential options because of their relatively low cost and high opportunity for customization. Customization is needed as the system capacity and capabilities grow and flex with the needs of the mentorship program. Depending on the constraints of the system, different solutions may be considered in the future. However, these are the recommended choices for startup. A more specific system diagram and how it relates to the software architecture of the system could be as follows:



Risk Analysis

Purpose:

The assignment of risk to items of the system is a core step of project analysis. In order to efficiently allocate development resources to system items we assign two levels of risk, high and low. High risk items are those that are core to the functionality of the system and/or have a high level of difficulty of implementation into the system. Either of these factors alone could be enough to assign additional resources to the project. Low risk items are relatively easy to implement into the system and/or are not core to the functionality of the system. These factors warrant assignment of low risk and are given less development resources. Below is the analysis of project items and the risk assigned to each item.

For defining use case risk, we must assess both the ability of the development team to properly implement the function described in the use case and the importance of functionality to the system of the use case. Each use case will be broken down into parts with a total risk assigned at the end of each use case.

Use Case 001, Enroll Mentees: high risk

Use case 001 is for enrolling underclassmen in the mentorship system. From a design standpoint this is a very simple process of getting user account details, authorizing the user, and creating a profile. This will be accomplished through forms and should be simple to implement. However, it is the basis of the system to have mentees which to be mentored making the importance of functionality of this feature high. Because of enrolling mentees in a central function of the mentorship system a high risk is assigned.

Use Case 002, Enroll Mentors: high risk

Like use Case 001, use Case 002 is the enrollment of upperclassmen mentors. This functionality should also be simple to implement the system as well. Additionally, like use case 001 the importance of having users to mentor the mentees is central to the functionality of the system as such a high risk is assigned.

Use Case 003, Enroll Alumni: low risk

Use Case 003 is the enrollment of Alumni to the mentorship system. This will likely be accomplished similarly to the previous 2 use cases, but alumni will have additional profile details not available to student users. Unlike the student users, alumni users are not as central to the systems core functionality. Therefore, a low risk is assigned.

Assigning risk to other system areas is a similar process as assigning use case risk. We first consider the level of difficulty of system implementation and then we consider the importance of the area to the functionality of the system.

Profile Matching: high risk

In order to have a functional and useful system we must have a mentor-mentee relationship. This relationship is central to the functionality of the system and is the core purpose of the system. This alone is enough to consider the area high risk. Additionally, the algorithmic matching or mentors to mentees based on interests and study fields could potentially be problematic as well further adding to the assignment of high risk.

Authenticate Users: high risk

In order to have users to participate in the system there will be a function in place to authorize them to participate. While this function should be trivially simple to implement, its importance to the core functionality of the system warrants extra caution. For this reason, a high risk is assigned.

Generate Reports: low risk

In order to measure the impact and utilization of the system a series of report will be generated. Implementation of this should be moderately difficult to accomplish as it requires aggregation of user data on mass. This report will be used to track progress of mentor relationships throughout the system. However, it is not a core use to the functionality of the system to be able to generate reports. Because of this it is assigned a low risk.

Take Donations: low risk

The use of a payment management system independent of the mentorship system and lack of impact to core functionality are the reasons this area is assigned a low risk.

Team Charter

Our first and foremost goal as a project team in this class is to utimately learn the material taught and earn a good grade overall for doing so. These are what can be described as relative long-term goals, however. In the short term, we eagerly anticipate receiving top marks for our Iteration 1 submission, presentations, and next few assignments soon to follow. Under unanimous decision, we determined the best method of functional management for our members is through a Democratic Leadership style, in which a leader is chosen to assign tasks and authority of projects to others. We feel this is the best method for a project team of our size to function because task delegation and equal collaboration are incredibly important key factors to maximizing efficiency and minimizing dissatisfaction.

Team meetings will be scheduled in a somewhat utilitarian fashion. The leader 'elected' by the project team will attempt to reserve a meeting time and place based on the schedules of at least three or more members. This is in order to minimize the inherent amount of confusion that will inevitably appear if the minority were to make group decisions without the participation of the other members. Meetings will be conducted in an entirely unfixed fashion, likely only providing focus to endeavors or areas of concern when approaching their due date. Considering each member is a student at the University of Louisville, all team meetings would ideally be held in person at the College of Business or Ekstrom Library. Additionally, since all members are taking the same class together, meetings could be held during class depending on tentative class-time provided by the instructor; it would not be inconceivable to assume most class meetings will be held Tuesdays and Thursdays, although this is conjecture. The results of the meeting will be relayed by the team leader through email or social media to various group

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members, so that even members who have varying circumstances are able to keep up with the course load.

Team communications will vary between social media and emails, but the primary modem of communication between group members will be through a social media app called 'GroupMe'. This is where the leader will relay the results of group meetings, pictures of technical materials as needed and perform basic team announcements. If the assignment is too technical to be managed electronically, all members will meet in person. Communication with the instructor and client will be through the uniformed use of physically documented reports and oral presentations. However, this is subject to change depending on the instructor's assignment and iteration deliverables in the future.

As stated before, the functional management of our group will ultimately be democratic. A leader will be unanimously 'elected' to delegate tasks and make the final decisions. Though, all members will be free to speak openly of their opinions or unanimously 'elect' another leader if they feel the project is compromised. If we encounter a conflict – such as an unsolvable problem – we will ask for help from the instructor. On the rare chance that one of our members is not doing his or her part on the project and spreads conflict internally, we will first try to resolve it ourselves and then seek help from the instructor.

The Project Repository will be kept on Google Drive, serving as a "document dump" for project documents, only to be used and acted upon by communication through 'Group Me'. Progress documentation will primarily be kept on 'GroupMe' through the multiple relays sent by the team leader. If the instructor requires a summarized, condensed form of all project

2

documentation done up until some point, accommodations will be made to transfer the data onto a platform that matches the uniform quality of our normal reports. The Gantt Chart is used to break down every component of Iteration one and iteration two and complete each task in a timely manner. The table is used to assign students to each task and are given a duration period to get the task completed. Some task needs to be completed before others can start, the Gantt Chart display these tasks in the order they need to be completed, thus allowing the project to be completed with minimal delays, if any.

		Tack Namo	Ctart	Finish	Duration					Fe	eb 2019						
	i usk nume	Sturt	FIIIISII	1	1		4					11	12	13	14	15	
Iteration 1	1	System Request-Ryne	2/1/2019	2/3/2019	3d												
	2	Narrative - Samantha	2/1/2019	2/3/2019	3d												
	3	Process Models-Lazaro	2/1/2019	2/3/2019	3d												
	4	Vision Documents-Shannon	2/4/2019	2/5/2019	2d												
	5	Agile Stories - Bailey	2/1/2019	2/3/2019	3d												
	6	Team Charter - Samuel	2/1/2019	2/3/2019	3d												
Iteration 2	7	Vision Document - Shannon	2/6/2019	2/7/2019	2d												
	8	System Requirements-Bailey	2/6/2019	2/7/2019	2d												
	9	Cases - Samantha	2/8/2019	2/9/2019	2d												
	10	Architecture-Samantha	2/6/2019	2/8/2019	3d												
	11	Risk Analysis - Ryne	2/10/2019	2/12/2019	3d												
	12	Gant Chart - Lazaro	2/6/2019	2/11/2019	6d												
	13	Inception - Samuel	2/6/2019	2/11/2019	6d												

Inception Phase Prototype

Summary:

The HTML prototype forms focus on 2 high-risk Use Case's outlined in our Risk Analysis as examples forms for where we are taking this project.

The forms collect basic information such as a name, address, and contact information, while also accounting for Ethnicity and Nationality. We have made sure to include a classification by gender and age, to where our mentees and mentors can set their preference as to who they would prefer as a mentor/mentee.

We have set further classifications on matching mentors/mentees by dividing them by concentrations, and then further by which specific class they need help with and what the mentors would prefer to teach.

Enroll Underclassmen Mentees (Prototype Form)

Enrolls underclassmen mentees into the CIS mentorship program.

1 Page 1 2 Page 2

Name							
First	MI	Last					
Address							
Address Line 1							
Address Line 2							
City	State	~	Zip Code				
Nationality		Ethnicity					
United States		✓ Alaskan Native	×				
Gender		Would you prefer a n	nentor with the same gender as you?				
McChicken Sandwich	2	Ves No					
Age		Would you prefer a n	nentor near your age?				
6 months		Ves No					
Date of Birth							
8/15/2018							
Phone		Can we send you text	t messages?				
(502) 555 - 5555		Yes No					
Email		Would you like to be	notified of upcoming updates by email?				
exampleemail@notnowpls.com		Yes No					

Enroll Underclassmen Mentees (Prototype Form)

Enrolls underclassmen mentees into the CIS mentorship program.

1) Page 1 🙆 Page 2

What is your concentration?

Information Security

What class can we help you with?

CIS320

Are you willing to meet outside of campus with your mentor?

Do you live on campus?

Yes No

Yes No

V

V

Is there anything you want your future mentor to know about you? (Optional)



Enroll Senior Mentors (Prototype Form)

Enrolls upperclassmen mentors into the CIS mentorship program.

1 Page 1 2 Page 2

Name				
First			Last	
Address				
Address Line 1				
Address Line 2				
City		State	~	Zip Code
Nationality			Ethnicity	
United States		~	Alaskan Native	~
Gender			Would you prefer a m	nentee with the same gender as you?
McChicken Sandwic	h	~	O Yes No	
Age			Would you prefer a m	entee near your age?
6 months		*	Yes No	
Date of Birth				
8/15/2018				
Phone			Can we send you text	messages?
(502) 555 - 5555			O Yes No	
Email			Would you like to be	notified of upcoming updates by email?
exampleemail@notr	owpls.com		Yes No	

Enroll Senior Mentors (Prototype Form)

Enrolls upperclassmen mentors into the CIS mentorship program.

1 Page 1 2 Page 2

What is your concentration?		Do you want to be matched by concentration?	
Information Security	~	○ Yes ● No	
What class are you most comfortable in teaching?		List the subjects related to CIS you are most confident in:	
CIS320	~		
Do you live on campus?		Where would you prefer to meet with your mentee?	
O Yes No		Mariana's Trench	~
Please share why you want to become a mentor:			

Is there anything you want your future mentee to know about you? (Optional)