

# My Academic Pyramid

Project Plan

CECS 491B Sec 05 February 18, 2019

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# **Revision History**

Date	Version	Description		
11/1/18	1.0	First draft.		
12/13/18	1.1	Post Sprint 3 Revision.		
2/18/19	1.2	SSO Scope Creep Inclusion.		

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#### 1. Introduction

The purpose of this document is to get an understanding of how the project will be completed. This document will give an estimation of costs, time, and deadlines for the project. It will allow our team to plan the schedule and resource needs for the project and to track progress. The team will have a plan for what needs to be done and the deadlines for milestones.

#### 2. Overview

#### 2.1 Project Overview

My Academic Pyramid is a social media web application where students can communicate with their peers and ask questions on a discussion board. The application will also provide an online tutoring service, allowing students to converse with tutors and seek assistance online without the need to travel to campus. The goal for the project is to help students build relationships among each other and include features which can assist students with their assignments. Our team will have the web application delivered by the deadline along with its functioning features.

#### 2.2 Assumptions and Constraints

Our project team will be limited on budget and time. We are current CSULB students in the 491 Senior Project class and our time is limited by each team member's schedules throughout the scope of the class. As students, our budget is limited as well.

### 2.3 Project Deliverables

- 1. Business Requirements Document
- 2. Technical Specification Document
- 3. Project Plan
- 4. Design Document

These deliverables will be turned in to our client at their specific due dates, which are explained in more detail in further sections of this document.

## 2.4 Evolution of the Project Plan

This project plan will be updated as our project progresses. The table at the beginning of the document illustrates the document's current version and the date it was updated.

### 3. Resources

#### 3.1 Team Roles

Name	Role
Krystal Leon	Project Manager/Full Stack Developer
Arturo Peña Contreras	Full Stack Developer
Hyunwoo Kim	Full Stack Developer
Luis Julian	Full Stack Developer
Trong Nguyen	Full Stack Developer
Victor Kim	Full Stack Developer

### 3.2 Cost and Time Estimations

Category	Description	Resource	Salary	Hours	Estimate
Developers	The wages for the	Krystal Leon	\$30.00	675	\$20,250.00
	developers based on a developers salary. Rates	Arturo Pena	\$30.00	675	\$20,250.00
	were calculated based on a developers salary per year and hours were calculated based on the total amount of hours the project will take to finish.	Luis Julian	\$30.00	692	\$20,760.00
		Victor Kim	\$30.00	650	\$19,500.00
		Hyunwoo Kim	\$30.00	760	\$22,800.00
		Trong Nguyen	\$30.00	660	\$19,800.00
				Total Estimate	\$123,360.00
				Total Hours of Project	4112

Salaries are based on average junior developer salary divided into hours under a 40 hour weekly shift. <a href="https://www.indeed.com/salaries/Junior-Developer-Salaries">https://www.indeed.com/salaries/Junior-Developer-Salaries</a>

Category	Description	Web Services	Types of Web Services	Cost (Per Year)
Website Deployment	The cost to maintain and purchase a website address for our program	Domains	Brand New Domains	\$10.00
		Web hosting	Shared	\$48.00
		SSL Certificate	Let's Encrypt	\$0.00

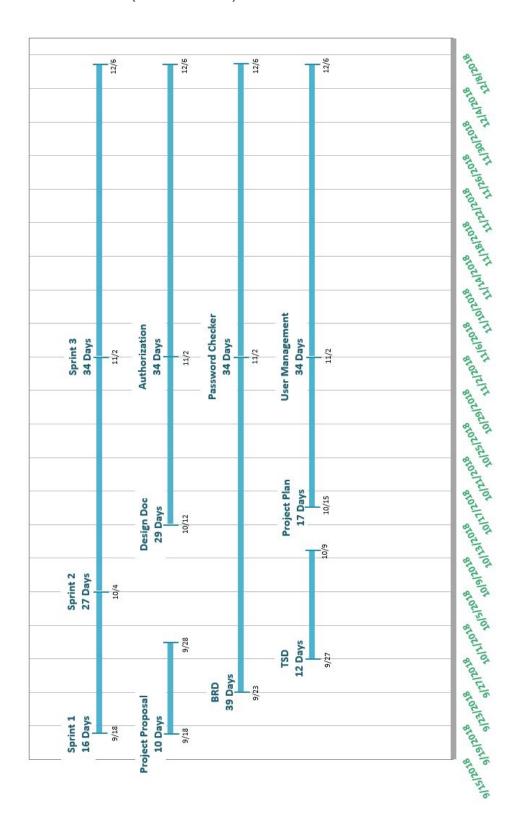
Category	Technology	What we used	Quantity	Cost	Total
	Browser	Chrome	1	\$0.00	\$0.00
	IDE	Visual Studio Community 15.8.2	1	\$0.00	\$0.00
	JavaScript Front End Framework	AngularJS 1.7.4 (VueJS)	1	\$0.00	\$0.00
	Server-Side Programming	.NET Framework (C#) 4.7.2	1	\$0.00	\$0.00
	Database	Microsoft SQL Server 13.0	1	\$0.00	\$0.00
	SQL Management	SQL Server Management Studio 2017	1	\$0.00	\$0.00
	Microsoft SQL Server 2016 Edition	Microsoft SQL Server 2016 Edition Developer	1	\$0.00	\$0.00
	Caching System	Redis 4.0.11	1	\$0.00	\$0.00
	Server	IIS 10	1	\$0.00	\$0.00
	Messaging (Library)	Discord (Library)	1	\$0.00	\$0.00
	Messaging (Personal)	Discord (Personal)	1	\$0.00	\$0.00
	Automated Testing	Fiddler 5.0.20182	1	\$0.00	\$0.00
	UI Design Software	Adobe XD 12.0.12.0	1	\$0.00	\$0.00
	Version Control System	Git v2.19.1	1	\$0.00	\$0.00
	Project Code Hosting Platform	GitHub	1	\$0.00	\$0.00
	Cloud Service for Development	Microsoft Azure (web Servers)	1	\$0.00	\$0.00
	Calendar Service API	Google API v3	1	\$0.00	\$0.00
	Calendar Service API 2	Full Calendar	1	\$0.00	\$0.00
	Usage Analysis Dashboard Graphing	Google Analytic	1	\$0.00	\$0.00
	Framework of CSS	Semantic UI 2.4	1	\$0.00	\$0.00
	Framework of CSS 2	Bulma 0.7.1	1	\$0.00	\$0.00
	Command-Line Shell (For GIT)	Git Bash 2.17	1	\$0.00	\$0.00
Technologies	Encryption Standard	.NET .Cryptography	1	\$0.00	\$0.00
				Total Cost	\$0.00

# 4. Schedule and Milestones

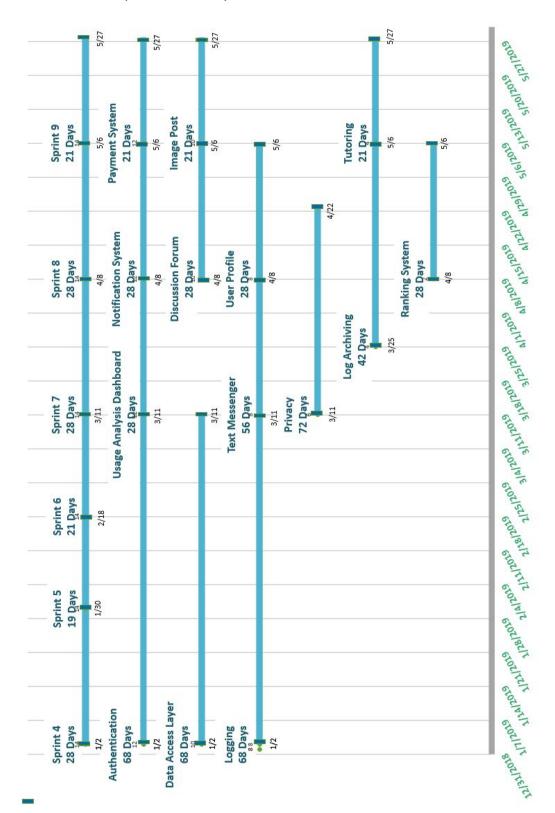
Our team will work using the Scrum method of project management. We will work in eight sprints throughout the length of our schedule. We will communicate with the client at the beginning and end of every sprint, and have something to demo to the client at the end of each sprint in order to get feedback for the project. This will help our team adjust to changes in scope and allow the client and our team to have a better understanding of how the project is progressing.

The following timeline includes the dates for sprints along with what will be implemented during those sprints. The time estimation table takes research, implementation, and testing into consideration, along with the best, average, and worst case scenarios for each. Time estimations were done individually for every feature taking into consideration feature complexities set by Professor Vatanak Vong. We plan on having these estimations be at least 85% accurate during the project timeline.

# 4.1 Timeline (Semester 1)



# 4.2 Timeline (Semester 2)



### 4.3 Hour Distribution

	<b>Sprint 1</b> 212 Hours 9/18/2018 - 10/4/2018			<b>Sprint 2</b> 320 Hour 10/4/2018 - 11/	
9/18/2018	Project Proposal	Writing 32 Hours	10/4/2018	Business Requirements	Writing 24 Hours
9/28/2018	76 Hours	Revising 44 Hours	- 11/1/2018	<b>Document</b> 60 Hours	Revising 36 Hours
9/23/2018	Business Requirement	Writing 42 Hours	10/4/2018	Technical Specifications	Writing 18 Hours
10/4/2018	<b>Document</b> 105 Hours	Revising 63 Hours	10/9/2018	Document 45 Hours	Revising 27 Hours
9/27/2018	Technical Specifications	Writing 12 Hours	10/13/2018	Design Document	Writing 50 Hours
10/4/2018	Document 31 Hours	Revising 19 Hours	11/1/2018	125 Hours	<b>Revising</b> 75 Hours
			10/15/2018	Project Plan	Writing 36 Hours
			11/1/2018	90 Hours	Revising 54 Hours

	2	<b>Sprint 3</b> 268 Hours 118 - 12/11/2018			72	<b>print 4</b> 4 Hours 9 - 1/30/2019	
		Research 40 Hours	11/1/2018		Authentication	Research 26 Hours	1/2/2019
11/1/2018	Authorization	Design & Development 28 Hours	11/4/2018	1/2/2019	124 Hours Luis	Design & Development 62 Hours	1/9/2019
12/11/2018	90 Hours	Error Handling 12 Hours	11/4/2010	1/30/2019	*Continued in	Error Handling 10 Hours	1/2/2012
		Testing 10 Hours	11/21/2018		Sprint 5-6	Testing 26 Hours	1/23/2019
		Research 26 Hours	11/1/2018		Data Access Layer	Research 25 Hours	1/2/2019
11/1/2018	Scope Creep: Password	Design & Development 20 Hours	11/4/2018	1/2/2019	120 Hours	Design & Development 60 Hours	1/9/2019
12/11/2018	Checker 79 Hours	Error Handling 8 Hours		1/30/2019	*Continued in	Error Handling 10 Hours	
		Testing 25 Hours	11/21/2018		Sprint 5	Testing 25 Hours	1/23/2019
		Research 28 Hours	11/1/2018	1/2/2019 - 1/30/2019	Privacy 120 Hours Trong *Continued in Sprint 5	Research 80 Hours	1/2/2019
11/1/2018	User Management	Ianagement 56 Hours	11/4/2018			Design & Development 25 Hours Error Handling	1/9/2019
12/11/2018	99 Hours	13 Hours				5 Hours	
		Testing 22 Hours	11/21/2018			Testing 10 Hours	1/23/2019
					Usage Analysis Dashboard	Research 25 Hours	1/2/2019
				1/2/2019	120 Hours	Design & Development 60 Hours	1/9/2019
				1/30/2019	Hyunwoo  *Continued in	Error Handling 10 Hours	
					Sprint 5	Testing 25 Hours	1/23/2019
					Logging 120 Hours	Research 24 Hours	1/2/2019
				1/2/2019	Arturo	Design & Development 62 Hours Error Handling	1/9/2019
				1/30/2019	*Continued in	10 Hours Testing	
					Sprint 5	24 Hours Research	1/23/2019
					Log Archiving 120 Hours	24 Hours  Design & Development	1/2/2019
				1/2/2019 - 1/30/2019	Victor	62 Hours Error Handling	1/9/2019
				1/30/2019	*Continued in Sprint 5	10 Hours  Testing 24 Hours	1/23/2019

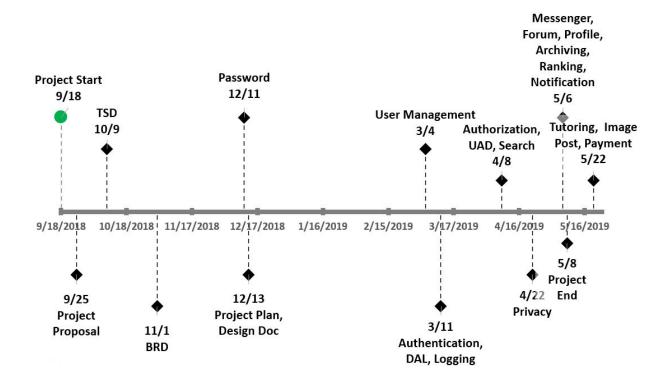
	64	<b>Sprint 5</b> 49 Hours 19 - 2/18/2019			31	S <b>print 6</b>  2 Hours  19 - 3/11/2019	
	Authentication	Research 26 Hours	1/30/2019		Authentication	Research 13 Hours	2/18/2019
1/30/2019 - 2/18/2019	124 Hours Luis	Design & Development 62 Hours Error Handling 10 Hours	2/6/2019	2/18/2019 - 3/11/2019	62 Hours Luis	Design & Development 31 Hours Error Handling 5 Hours	2/25/2019
	*Continued in Sprint 6	Testing 26 Hours	2/13/2019		*Continued from Sprint 5	Testing 13 Hours	3/4/2019
	Data Access	Research 25 Hours	1/30/2019			Research 10 Hours	2/18/2019
1/30/2019	Layer 120 Hours	Design & Development 60 Hours	2/6/2019	2/18/2019	SSO: Automated App Sync 40 Hours	Design & Development 15 Hours	2/25/2019
2/18/2019	Krystal *Continued from	Error Handling 10 Hours	2,6,2013	3/11/2019	Krystal	Error Handling 5 Hours	2,20,2013
	Sprint 4	Continued from		Testing 10 Hours	3/4/2019		
	Privacy	Research 15 Hours	1/30/2019		Data Access Layer	Research 15 Hours	2/18/2019
1/30/2019	1/30/2019	Design & Development 60 Hours Error Handling	2/18/2019 2/18/2019 3/11/2019	80 Hours Trong	Design & Development 40 Hours Error Handling	2/25/2019	
		20 Hours  Testing 25 Hours	2/13/2019	3/11/2019	*Continued from Sprint 4	10 Hours  Testing 15 Hours	3/4/2019
	Usage Analysis	Research 25 Hours	1/30/2019	2/18/2019	User Management 30 Hours Hyunwoo *Continued from	Research 10 Hours	2/18/2019
1/30/2019	Dashboard 120 Hours	Design & Development 60 Hours	2/6/2019			Design & Development 12 Hours	2/25/2019
2/18/2019	Hyunwoo  *Continued from	Error Handling 10 Hours		3/4/2019		Error Handling 4 Hours	
	Sprint 4	Testing 25 Hours	2/13/2019		Sprint 3	Testing 4 Hours	2/28/2019
	Logging 55 Hours	Research 11 Hours	1/30/2019		Logging 55 Hours	Research 11 Hours	2/18/2019
1/30/2019	019 - Arturo	Design & Development 28 Hours Error Handling	2/6/2019	2/18/2019	Arturo	Design & Development 28 Hours Error Handling	2/25/2019
	*Continued from Sprint 4	5 Hours Testing	2/13/2019	3/11/2019	*Continued from Sprint 5	5 Hours Testing	3/4/2019
	Log Archiving	11 Hours  Research 22 Hours	1/30/2019			11 Hours  Research 15 Hours	2/18/2019
1/30/2019	110 Hours	Design & Development 56 Hours		2/18/2019	SSO: Logout 45 Hours	Design & Development 15 Hours	
- 2/18/2019	Victor *Continued from	Error Handling 10 Hours	2/6/2019	3/11/2019	Victor	Error Handling 5 Hours	2/25/2019
	Sprint 4	Testing 22 Hours	2/13/2019			Testing 10 Hours	3/4/2019

Luis		<b>Sprint 7</b> 547 Hours 3/11/2019 - 4/8/2019				<b>Sprint 8</b> 560 Hours 4/8/2019 - 5/6/2019			
All 2019   Luis   Fror Handling   Shours   Sho		Authorization		3/11/2019				4/8/2019	
Text Messenger   100 Hours   13 Hours   20	3/11/2019 - 4/8/2019	Luis	31 Hours Error Handling		-	100 Hours	50 Hours Error Handling	4/15/2019	
Text Messenger   100 Hours   10 Hours   50				4/1/2019				4/29/2019	
Arrival   Arri		Text Messenger		3/11/2019		Text Messenger		4/8/2019	
**Continued in Sprint 8	3/11/2019				-			4/15/2019	
Privacy 80 Hours   Research 15 Hours   Solution   Sprint 5   Testing 16 Hours   Sprint 5   Testing 17 Hours   Sprint 5   Testing 16 Hours   Sprint 5   Testing 17 Hours   Sprint 5   Testing 18 Hours   Testing 18 Hours   Sprint 5   Testing 18 Hours   Testing 18 Hours   Sprint 7   Testing 18 Hours   Sprint 7   Testing 18 Hours   Sprint 5   Testing 18 Hours   Testing 18 Hours   Testing 18 Hours   Sprint 7   Testing 18 Hours   Sprint 7   Testing 18 Hours   Testing	4/8/2019				5/6/2019				
Privacy 80 Hours   Design & Development 40 Hours   Trong   Trong   Sezion & Development 15 Hours   Sprint 5   Tong   Testing 15 Hours   Sprint 5   Testing 25 Hours   Design & Development 160 Hours   Sprint 5   Testing 25 Hours   Design & Development 20 Hours   Sprint 5   Hours   Shours   Sprint 5   Hours		Sprint 8		4/1/2019		Sprint 7		4/29/2019	
Alt			15 Hours	3/11/2019			10 Hours	4/8/2019	
### Sprint 5   Ferror Handling   15 Hours   5/22/2019   *Continued from Sprint 5   16 Hours   17 Hours   18 Ho	3/11/2019		0	3/18/2019	4/8/2019			4/15/2019	
Usage Analysis   Design & Development   60 Hours   25	4/8/2019			3/10/2019	5/22/2019			1713/2019	
25 Hours   26 Hours   26 Hours   27 Hours		Sprint 5	10 Hours	4/1/2019		Sprint 5		4/18/2019	
Hyunwoo   Error Handling   10 Hours   5/6/2019   5/6/2019   T5 Hours   Hyunwoo   Error Handling   10 Hours   10 Hours   11 Hours   4/29/2019			25 Hours	3/11/2019			14 Hours	4/8/2019	
A/8/2019	3/11/2019		60 Hours	3/18/2019	4/8/2019		45 Hours	4/15/2019	
Sprint 4   25 Hours   4/1/2019   11 Hours   4/29/2019   4/8/2019   3/11/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/2019   4/8/201	4/8/2019	•	10 Hours	0,10,2013		5/6/2019	Hyunwoo	10 Hours	
Search Feature   120 Hours   120 Hours   120 Hours   Arturo			25 Hours	4/1/2019				4/29/2019	
Arturo   120 Hours   120 Hou				3/11/2019				4/8/2019	
Testing 24 Hours   4/1/2019   Research 15 Hours   3/11/2019   A/8/2019   SSO: Logout 45 Hours   Victor   Error Handling 10 Hours   A/8/2019   Victor   Testing 10 Hours   A/8/2019   A/8/2019   Victor   Testing 10 Hours   A/8/2019	3/11/2019 4/8/2019	120 Hours	62 Hours Error Handling		-	105 Hours	53 Hours Error Handling	4/15/2019	
SSO: Logout   45 Hours   Design & Development   15 Hours   3/11/2019   4/8/2019   Victor   Ferror Handling   5 Hours   3/25/2019   Victor   Testing   10 Hours   3/25/2019   Victor   Testing   20 Hours   Victor   Victor   Testing   20 Hours   Victor   Victor   Testing   4/8/2019   Victor   Testing   10 Hours   Victor   Victor   Testing   10 Hours   Victor   Victor   Testing   Victor   Victor   Victor   Victor   Testing   Victor   Victor   Victor   Victor   Victor   Testing   Victor   Vi			Testing	4/1/2019			Testing	4/29/2019	
A   A   Bours				3/11/2019				4/8/2019	
Victor   Error Handling   5 Hours   5/6/2019   *Continued from Sprint 7   Testing   10 Hours   4/29/2019	3/11/2019		15 Hours	3/13/2019	4/8/2019		46 Hours	4/15/2019	
Log Archiving   20 Hours   Research   4 Hours   4/8/2019	3/25/2019	Victor	5 Hours	0.10/2017	5/6/2019		10 Hours	15/2017	
Log Archiving   20 Hours   Design & Development   10 Hours   4/8/2019			10 Hours	3/20/2019		Sprint 7	17 Hours	4/29/2019	
Victor   Victor   Sprint 5   Victor   Testing   4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019     4/4/2019   4/4/2019     4/4/2019   4/4/2019     4/4/2019   4/4/2019     4/4/2019   4/4/2019     4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019   4/4/2019			4 Hours				14 Hours	4/8/2019	
4/8/2019 *Continued from Sprint 5  *Continued from 4/4/2019  *Continued from 2 Hyunwoo  Testing 4/2/2019	3/25/2019	9	10 Hours		4/8/2019		45 Hours	4/15/2019	
	4/8/2019	*Continued from	2 Hours		5/6/2019	Hyunwoo	10 Hours		
		Sprint 5		4/4/2019				4/29/2019	

		Sp 520 5/6/2019		
			<b>Research</b> 50 Hours	5/6/2019
	5/6/2019	<b>Tutoring</b> 240 Hours	Design & Development 120 Hours	5/13/2019
	5/27/2019	240 Hours	Error Handling 20 Hours	
			<b>Testing</b> 50 Hours	5/20/2019
			Research 21 Hours	5/6/2019
E	5/6/2019	Payment System	Design & Development 53 Hours	5/13/2019
N D	5/27/2019	105 Hours	Error Handling 10 Hours	
O F			<b>Testing</b> 21 Hours	5/20/2019
P			<b>Research</b> 35 Hours	5/6/2019
R O J E	5/6/2019	Image Type Post (Discussion Forum, Text	Design & Development 90 Hours	5/13/2019
C T	5/27/2019	<b>Messenger)</b> 175 Hours	Error Handling 15 Hours	
			<b>Testing</b> 35 Hours	5/20/2019
		Sprint 8 is planned for after the end of the project. All Sprint 8 features are considered out of scope and will be dropped.		

# 5. Roadmap

### 5.1 Graph



#### 5.2 Milestones

Milestones	Description	Deliverables	<b>Planned Date</b>
Project Start	First day of Sprint #1		9/18/2018
Project Proposal	Project Proposal is complete and submitted.	- Project Proposal Document	9/25/2018
TSD	Technical Specifications Document is complete and submitted.	- Technical Specifications Document	10/9/2018
BRD	Business Requirements Document is complete and submitted.	- Business Requirements Document	11/1/2018

Scope Creep: Password Checking	The first scope creep, Password Checking, is implemented, tested and fully functional. All the deliverables are submitted into the Github.	- Password Checking Implementation code, testing code, low level design document, and documentation	12/11/2018
Project Plan, Design Doc	Project Plan and Design document are completed and submitted. All the deliverables are submitted into the Github.	- Project Plan Document - Design Document	12/13/2018
User Management	User Management is implemented, tested and fully functional. All the deliverables are submitted into the Github.	- User Management Implementation code, testing code, low level design document, and documentation	3/4/2019
Authentication, DAL, Logging	Authentication, DAL, and Logging are implemented, tested and fully functional. All the deliverables are submitted into the Github.	- Authentication - Data Access Layer - Logging Implementation code, testing code, low level design document, and documentation for each feature	3/11/2019
Authorization, UAD, Search	Authorization, UAD, and Search are implemented, tested, and fully functional. All the deliverables are submitted into the Github.	- Authorization - Usage Analysis Dashboard - Search Implementation code, testing code, low level design document, and documentation for each feature	4/8/2019
Privacy	Privacy is implemented, tested and fully functional. All the deliverables are submitted into the Github.	- Privacy Implementation code, testing code, low level design document, and documentation for each feature	4/22/2019

Messenger, Forum, Profile, Archiving, Ranking, Notification,	Messenger, Discussion Forum, Profile, Archiving, Ranking System and Notification system are implemented, tested, and fully functional. All the deliverables are submitted into the Github.	- Messenger - Discussion Forum - User Profile - Archiving - Ranking System - Notification System Implementation code, testing code, low level design document, and documentation for each feature	5/6/2019
Project End	All code is ready to be deployed.	- Final Web Application	5/8/2019
Tutoring, Image post, Payment Out of scope features implemented are complete, tested, and fully functional.		- Tutoring - Image Type Post - Payment System (Discussion Forum, Text Messenger)	5/22/2019

# 6. Project Monitoring & Control

Our team works using the SCRUM methodology and that is how we will track our progress.

#### 6.1 Requirements Management

We will meet with our client at the start of each sprint and on other occasions if necessary. At the start of each sprint will will show the client what we have planned to work on to make sure the client is content with the progress we are making on the project. At these meetings we will determine whether the client wants any changes in requirements for the project.

#### 6.2 Schedule and Budget Control

We have the schedule and expected dates for each milestone. Each milestone has its work items that will be assigned to individual members of our team each sprint. At the start of each sprint we will see how we are advancing on the project and whether we will have to make any changes to the scope to preserve completion dates.

## 7. Risk Management

This section has the risks associated with our web application "My Academic Pyramid." It will explain how each risk will be identified, analyzed, and managed during our sprints based on the project and the team itself.

#### 7.1 Process

Our team will ensure that risks are actively identified, analyzed, and managed throughout the life of the project. Risks will be identified early to minimize their impact.

#### 7.2 Risk Identification

Risk identification will involve the project team and the client.

#### 7.3 Risk Analysis

Risks will be assessed to identify possible outcomes. Qualification will be used to determine which risks are of highest priority.

The probability and impact for each risk will be assessed using the following approach.

#### Probability

- High the probability of risk is over 70%
- Medium the probability of risk is between 30% and 70%
- Low the probability of risk is less than 30%

#### **Impact**

- High risk that has the potential to greatly impact project cost, schedule or performance
- Medium risk that has the potential to have moderate impact on project cost, schedule or performance
- Low risk that has lowest possible impact on project cost, schedule or performance

Risks are ordered by priority along with what we will do to minimize the risk and what is the point at which we would not be able to recover if the risk reaches a specific limit.

Risk	Description	Impact	Probability	Mitigation Strategy	Risk Limit
Insufficient time	During our sprints, there is a possibly that our team will not have enough time to complete all system features.	High	High	We will continue to update our project plan as our project progresses to make sure we know how much time we have to complete a certain feature. We will communicate with the client to make sure we complete the highest priority features first.	We cannot allow for our project to fall behind to the point in which we fall a complete sprint behind schedule. If this ever occurs, we would not be able to complete a separate sprint along with what we haven't finished. It would be too much work and our project would fail.

Requirement changes	There could be changes in requirements that can affect our schedule. These changes are based on the client and his decision in what the feature should do.	High	High	The team will meet with the client at the end of every sprint to minimize the impact from a change in requirements. Staying on schedule will also assures us that a change in requirements won't push us back too much. Our team is also keeping in mind that a change in requirements is very likely to happen.	Changes in requirements should not reach the point of adding more than 500 hours of work to our project. We are limited in time and a big enough change in requirements would cause our project to fall to far behind schedule.
Team member availability	This is the limited availability of our team members during our regular planned sprints and during school breaks. This is also based on the chance that at least one of our team members may transfer to another project.	Medium	Low	Team meetings and good team communicatio n minimize the impact of a team member being absent for a period of time. Online meetings and check ups are also great in case they are not able to show up to the meetings.	Having a team member absent for over a week will impact the completion of work for that sprint. This results in our team unable to have the planned work delivered by the due date as our timeline was split based on the hours of all the team members.

Natural Disaster	Having an unforeseen disaster that prevents our team from working on the project. This can include but is not limited to earthquakes.	Low	Low	There is nothing we can do to prevent this. Chances are very low that it would happen.	A disaster that prevents the team from doing work for over a week or more would cause the project to fall behind or fail.
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# 7.4 Risk Monitoring

Risks on the project will be tracked, monitored and reported throughout the length of the project. All changes to the project will be analyzed for their possible impact to the project risks. If there are multiple risks involved, each will be given a priority based on its' impact to the project.