Team: Brian Alfano, Sung Bae, Eric Lindemann, Artur Meletyan

Title: Project Brian

Project Summary:

Our program will help users form teams to organize their projects by creating specific

tasks and assigning them to each team member. To use the software, a potential user must

create an account that uses their "@colorado.edu" email. Once signed up, users can view any

project boards they are a part of, join a board that they were invited to, or create a new board.

Users who decide to create a new board will be designated as that board's team leader,

allowing them to add new members to the project team as well as creating and assigning new

tasks to current members. All team members will be able to move a task between three

sections: Backlog, In-Progress, and Done. A member of a board can click the filter button to

only see the tasks that they are assigned to.

Project Requirements:

Business Requirements

ID Description **Priority** BR-01 Login must be @colorado.edu Low BR-02 Max number of board members should be 10 Medium

User Requirements

ID	Description	Priority
US-01	As a user, I want to be able to sign up so that I can use this saas.	High

US-02	As a user, I want to be able to login so that I can view my project boards.	High
US-03	As a team leader, I want to be able to make a board so that I can invite my members.	High
US-04	As a team leader, I want to be able to add members using through email verification with the database so that they can join the board.	High
US-05	As a team member, I want to be able to join a project so I can see the board appear on my Hub page.	High
US-06	As a user, I want to see all tasks in order to moderate the tasks.	High
US-07	As a user, I want to be able to see on the Board Page three categories for tasks: backlog, in progress and done so that I know which tasks are in which category.	High
US-08	As a team leader, I want to be able to make tasks for the team so that our team knows what requirements are to be implemented.	High
US-09	As a team leader, I want to be able to assign tasks to team members so that each member know what they are responsible for.	Medium
US-10	As a user, I want to be able to move tasks between categories to show what state of progress they are in.	Medium
US-11	As a user, I want to be able to click show self tasks in order to only see my specific tasks so that the page isn't as clustered.	Low

Functional Requirements

ID	Description	Priority
----	-------------	----------

FR-01	After signing in a user will be brought to board page.	High
FR-02	Sign up requires @colorado.edu and 8 character password.	Low
FR-03	When making a new board, the system checks if team title is already created from a different team. The system will refresh (saving emails) and make the team leader pick a new team title.	High
FR-04	After a team leader clicks cancel on the board creation page, it will send you back to Hub page where you can make, join, or see boards.	Medium
FR-05	When team leader clicks create on board creation page, the unique board will connect to everyone in the database who already has an account at Project Brian.	Medium
FR-06	When team leader clicks create on board creation page, and the email is not in the database (because they do not already have an account) an email is sent with the steps to join the board, the URL to the homepage, the unique password, and the title.	Medium
FR-07	When a team member finally signs up, they can click join in the Hub page where a pop up asks them to type in the unique password they received in an email from their team leader.	High
FR-08	When a team member is linked to a board by a team leader the board will appear on their Hub page.	High
FR-09	A user is sent to the unique board when they click on the project from the Hub page.	High
FR-10	When the yellow button is clicked on the boards page the task is moved to in progress.	High
FR-11	When the green button is clicked on the boards page the task is moved to done.	High

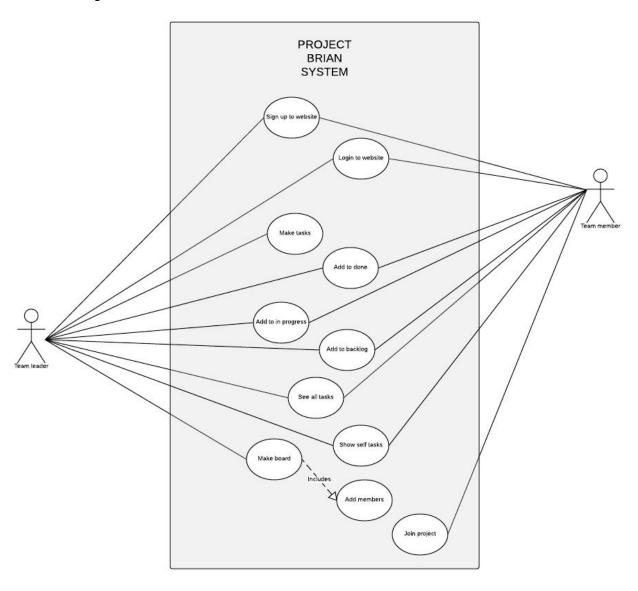
FR-12	When the red button is clicked on the boards page the task is moved back to the backlog.	High
FR-13	When a task is created on the boards page it is placed in the backlog.	Medium
FR-14	Clicking boards button brings you back to boards page.	High

Non-functional Requirements

ID	Description	Priority
NFR-01	Accessibility: The site should be accessible from any internet browser (chrome, firefox, safari, etc)	Medium
NFR-02	Implementation: For each ticket/task in the board, the character limit should be up to 160.	Low

User and Tasks:

Case Diagram



Use case documents

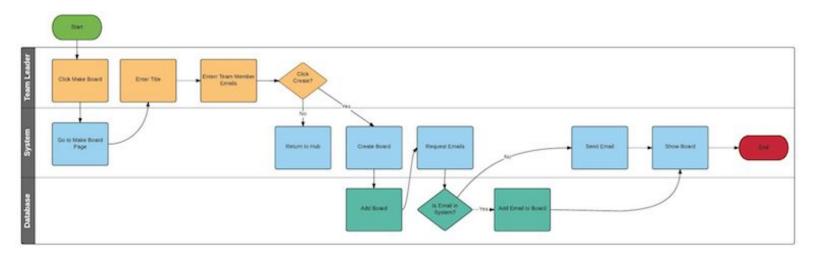
Use Case ID:	UC-01						
Use Case Name:	Sign up to Website						
Description:	User can sig	an sign-up to website using email					
Actors:	Team Leade	am Leaders, Team Members					
Pre-Conditions:	User has @colorado.edu e-mail adress and 8 character password						
Post-Conditions:	User has account at Project Brian						
		Actor Action	System Res	ponse			
	1)	Click the "Sign Up" button	Brings user to sign up page				
Flow of Events:	2)	Enter "@colorado.edu" email address					
TOW OF EVENTS.	3)	Enter eight character password					
	4)	Retype password for confirmation					
	5)	Click the "Create Account" button	Returns user to hub page				
	2)	User does not enter "@colorado.edu" email address	Return user to sign up page with error "Enter valid @colorado.edu email adress"				
Variations:	3)	User does not enter eight character password	Return user to sign up page with error "Please enter password with at lea eight characters"				
	4)	User does not enter retype the same password	Return user to sign up page with error "Passwords did not match"				
	5)	User clicks the "Cancel" button Return user to homepage					
Use Case ID:	UC-02	10 10 10 10 10 10 10 10 10 10 10 10 10 1	1/2 1/2 1/2				
Use Case Name:	Log in to V	Vebsite					
Description:	User can I	og in to website using previously created account					
Actors:	Team Lea	ders. Team Members					
Pre-Conditions:	User has a	an account with email and password in our database					
Post-Conditions:	User is log	ged into the website.					
		Actor Action	System Re	esponse			
	1)	Enter the account's "@colorado.edu" email address	MESSIE				
Flow of Events:	2)	Enter the account's password					
	3)	Click the "Login" button	Brings user to hub page				
Variations:	1)	User does not enter an existing account	Notify user of the error, request them to	retype the account			
	2)	User does not enter the account's correct password	Notify user of the error, request them to	retype the account			

Use Case ID:	UC-03					
Use Case Name:	Make Board					
Description:	Team leade	r can create a new board and invite others	10			
Actors:	Team Leaders					
Pre-Conditions:	Team leade	r has an account				
Post-Conditions:	Team leade	r owns one more board				
		Actor Action	System Response			
	1)	Click on the "Make Board" button	Brings user to "Make Board" page			
	2)	Enter the board's title				
Flow of Events:	-/-					
	3)	Enter team member accounts that can work on the board				
	3)	Little team member accounts that can work on the board				
			If the team member account is already signed up for			
		Citate and the IConnects Deposits to the	this board. If not send them an email with steps to joi			
	4)	Click on the "Create Board" button	randomly generated password they need. Bring team leader to board pag			
	2	10 11 12 12 12 12 12 12 12 12 12 12 12 12	Notify user of the error, request them to retype the accounts they want such			
Variations:	3)	User enters more than 10 accounts	that there are less than 10 accounts			
	4)	User clicks the "Return to Hub Page" button	Return user to "Hub" page			
Use Case ID:	UC-04					
Use Case Name:	Make task					
Description:	Team leade	r adds a new task with members assigned to it to an existing boar	rd			
Description	Todali lodge	a bods of flow black with mortibors assigned to 12 to all oxiding bods				
Actors:	Team Lead	ore				
Actors.	Team Lead	bi a		- 10		
Pre-Conditions:	Heer has to	have at least one board				
Pre-Conditions:	User has to	have at least one board				
D1 O 478		to a defend to the foreign foreign and the				
Post-Conditions:	A new task	is added to the board's backlog section				
	-	Actor Action	System Response			
	1)	Go to a board's page				
Flow of Events:	2)	Input the task				
	231					
	2)	Input the assigned members				
	3)	Click the "Create Task" button	Add task to Backlog section			
Variations:		Inputted email address is not a member assigned to this				
Turiditorio.	2)	board	Notify user of the error, request them to retype			

Use Case ID:	UC-05						
Use Case Name:	Join board						
Description:	Team mem						
Actors:	Team Members						
Pre-Conditions:	Board has t	to exist with a matching randomly generated password					
Post-Conditions:	A navy took	is added to the beautic backing conting					
Post-Conditions.	A new task	A new task is added to the board's backlog section Actor Action		System Response			
				11			
Flow of Events:	1)	Click "Join" button	Prompt user to enter unique r	random password for group			
	2)	Enter the group password					
	2)	Enter the group password					
	3)	Click "Confirm" button	Brings user to hub page with	new group added			
		Enter password that does not match with any existing					
Variations:	2)	groups	Notify user of error and reque	st them to re-type password			
Use Case ID:	UC-06						
Use Case Name:	Add to Don	e					
_							
Description:	Sends a tas	sk to the Done section					
Actors:	Team Lead	ers, Team Members					
EA 19819 (MA)	as no one			9			
Pre-Conditions:	Task exists	and is not in the Done section					
Post-Conditions:	Task is in th	ne Done section					
		Actor Action		System Response			
		2.31.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2					
Flow of Events:	1)	Go to a board's page					
	2)	Click on the "Green" button on the task	Send task to Done section				
Variations:							
	7						
Use Case ID:	UC-07	SX3-100					
Use Case Name:	Show Self Ta	asks					
Description:	From the box	ard page make it so the user can only see his/her own tasks					
		<u> </u>					
Actors:	Team Memb	ers, Team Leaders					
Pre-Conditions:	Board has to	paviete					
Te-conditions.	Board rids to	ONIGO					
Post-Conditions:	Show user h	sis/her own tasks					
		Actor Action	S	System Response			
	1)	Go to the board page					
Flow of Events:	,,			AND I THE			
	2)	Click checkbox under tasks that says "Show my tasks"	Show user his/her own tasks,	if they have none show no tasks			

	2000000						
se Case ID:	UC-08						
se Case Name:	Show All Tasks						
escription:	View all tasks on the board page						
escription.	view all tasks on the board page						
ctors:	Team Membe	Team Members, Team Leaders					
	of the Market Market Control of the Market C						
re-Conditions:	Board has to	Board has to exist with a matching randomly generated password					
ost-Conditions:	Show user all tasks						
Jac-Conditions.	Actor Action			S	stem Response		
N 100 N	1)	Go to the board page		Show board page with all tasks	assigned to all users		
ow of Events:							
Use Case ID:	UC-09						
Use Case Name:	Add to In F	Progress					
Description:	Sends a ta	sk to the In Progress section					
Actors:	Team Lead	ders, Team Members					
- 1		- V				100	
Pre-Conditions:	Task exists	and is not in the In Progress section					
200020000000000000000000000000000000000							
Post-Conditions:	Task is in t	k is in the In Progress section			Proton Bossons		
		Actor Action			System Response		
Flow of Events:	1)	Go to a board's page					
	-						
	2)	Click on the "Yellow" button on the ta	ask	Send task to In Progress see	tion		
Variations:							
Use Case ID:	UC-10	Challenger .					
Use Case Name:	Add to Bad	klog					
Description:	Sande a ta	sk to the Backlog section					
Description.	Serius a ta	sk to the backlog section					
Actors:	Team Lead	ders, Team Members	W	Vii	N .		
	23/42/53/50/04/04						
Pre-Conditions:	Task exists	Task exists and is not in the Backlog section					
Post-Conditions:	Took is in t	he Backlog section					
r vat-conditions.	lask is in t	Actor Action			System Response		
		7,000					
Flow of Events:	1)	Go to a board's page					
				25.2 23. 22.20 . 20.00 00 00 00 00 00 00 00 00 00 00 00 00			
	2)	Click on the "Red" button on the task	•	Send task to Backlog section	1		
Variations:							

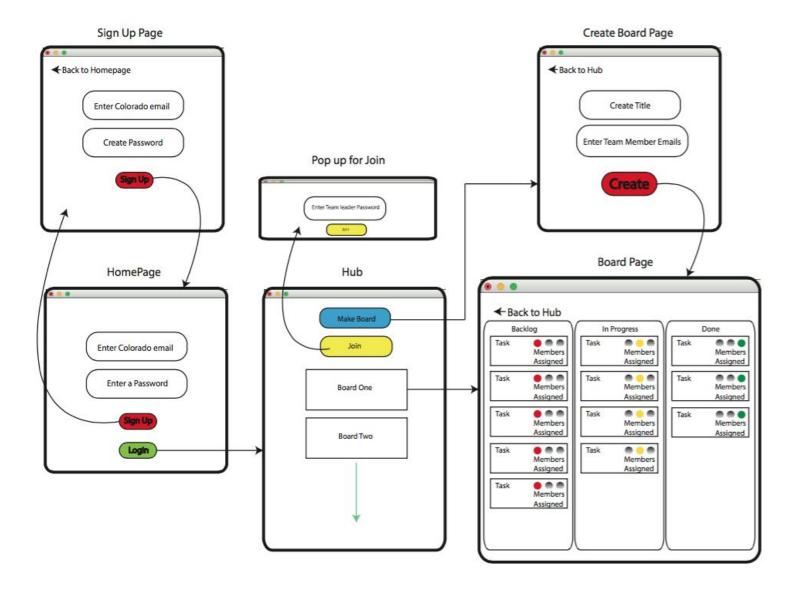
Activity Diagram:



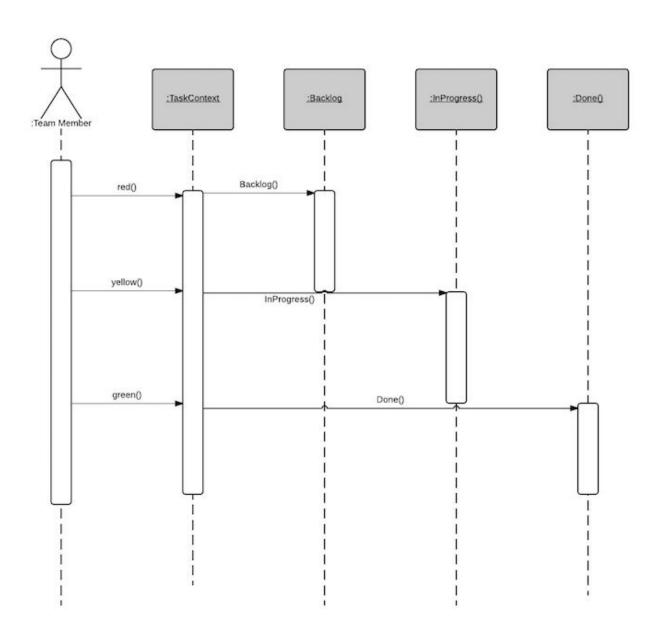
Data Storage:

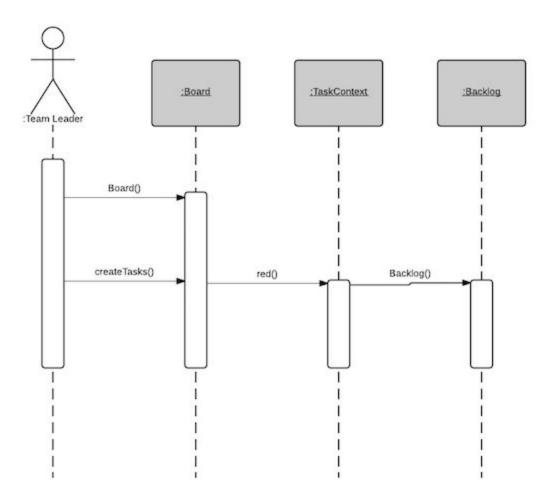
We will be using MySQL to persist the data from our application. Using MySQL, we will store the values of every object that gets instantiated and modify them as per the application requires. To restore a session, the associated objects will be re-instantiated using the values stored in MySQL corresponding to that session.

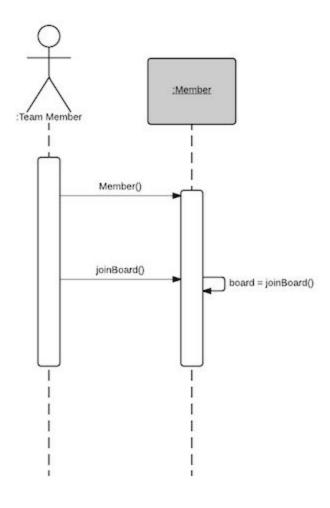
UI Mockups:



User Interactions:







Class Diagram:

