

## UNIVERSITEIT VAN PRETORIA UNIVERSITY OF PRETORIA YUNIBESITHI YA PRETORIA

## COS 301

## DEPARTMENT OF COMPUTER SCIENCE

# Phase 1 Mini Project

Group Members:	Student numbers:
TJR KIRKER	u11152402
KK KGWETE	u11247143
JD Marx	u12105202
LL Molokomme	u11197961
P Mtsweni	u11116774
X NTSHINGILA	u13410378
T Ntsaba	u10668544
D Ово	u13134885

### 1 System Overview

The BuzzSystem aims to enhance the learning process by providing a platform in which Lecturers, Tutors and Students can discuss concepts covered in class in a more user friendly manner which is appealing to students; consequently this will deepen their understanding of the concepts and improve their overall performance.

This is achieved by introducing social networking elements such as tagging and gaming abilities such as earning points, because of these introductions the system will not only encourage competitiveness but also provide reporting functionalities which will indicate the performance of individual users and the system as a whole.

## 2 Functional requirements and application design

### 2.1 Use case prioritization

#### Critical

- UserManagement
- Posting
- BuzzSpace

### Important

- Category
- Vote
- Important

#### Nice to Have

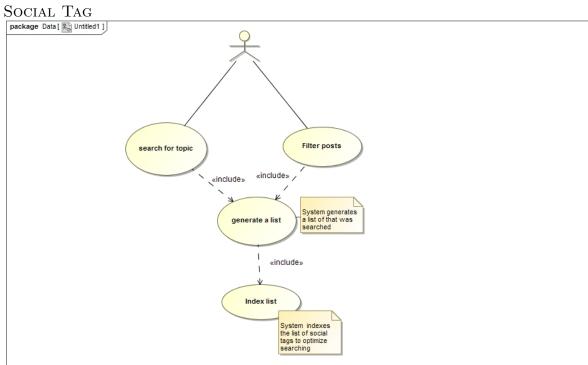
- tagging
- Rewarding

## 2.2 Use case/Services contracts

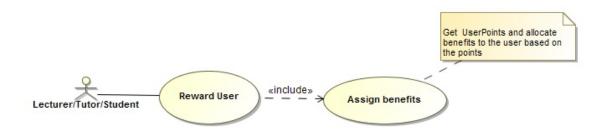
	Use Cases			
Theme: Category	Functions	List Description	Pre-Condition	Post-Condition
	Create a Category	Add a category to the system	The category must not be in the system	A new category is added to the system
	Deleting a Category	Locate category in the system , Remove category from the system	The category must exist in the system	Category removed from the system
	Edit Categories	Access the category and make desired changes, save the changes	The category must exist in the system	An updated category is added to the system
Categories are used to group content				
and they are created/ accessed by users with appropriate user authorisation				
e.g Lecturers. It also facilitates searching.				
Theme: User Management	Functions	List Description	Pre-Condition	Post-Condition
	Assign User Level	Get UserPoints, Check the UserLevel database in the system and assign a user to a level that corresponds to their points.	User must be logged in and exist i.e is not a guest	User is assigned to a UserLevel
	Promote User	Get UserLevel andUserPoints, if the user's points have increased,promote user to a higher level if their points correspond to that level.	User is logged and is not a guest User.	The user will be promoted to a higher level.
	Demote user	Get UserLevel and UserPoints, if the user's points have decreased, demote user to a lower level if their points correspond to that level.	User is logged and is not a guest User.	The user will be demoted to a lower level
Manage the users of the system and keeps track of their overall participation	Login	Checks if user exists on the LADP database and logs the user into the system if it exists.  If it doesn't exist user will be logged in as a guest.	The user has entered their credentials.	The user will be logged into the system.
and	Logout	System checks if user is logged in and logs the user out of the system if it is.	The user must be logged in.	The user will be logged out of the system.
Every user will have different				
cababilities depending on their level				

			10.0	10:1
Theme: Reporting	Functions	List Description	Pre-Condition	Post-Condition
		Get the type of user Depending on the user provide statistical information about:		
		The BuzzSystem, buzz space, Discussion, User, thread.		
		Statistical information includes:	The user must be logged in and exists and is requesting a report	
		Number of Post. Number of Upvotes/ Downvotes.	which they are authorised to access e.g Only Lecturers can view	
	Generate report	Number of Plagiarised posts etc.	The Buzz Styem's report.	A generated report is returned to the user.
	·			
Reporting is used to determine the performance of not only the user				
but also each BuzzSpace and				
the system as a whole.				
Them e: Voting	Functions	List Description	Pre-Condition	Post-Condition
		Get thread from a system		The threads number of upvotes will increase by one upvote after a user has upvoted. This information will be saved in the
	Upvoting	Increase the thread's points or number of votes.	User must be logged in and allowed to upvote a thread. The thread must exist.	database and the system will keep track of the total upvotes.
	opromi <sub>g</sub>	mercase are arread a partial or ration of rates.	The thread most energy	The threads number of upvotes will increase by one upvote
		Get thread from a system		after a user has upvoted. This information will be saved in the database and the system will keep track of the total
	Downvoting	Decrease the thread's points or number of votes.	User must be logged in and allowed to downvote a thread. The thread must exist.	database and the system will keep track of the total downvotes.
Voting is responsible for the management of				
assigning points to a thread and reducing points				
of a thread consequently it laso changes the Thread Owner's Userpoints				
Tillead Owler's Oserpoints				
Theme: Social Tagging	Functions	List Description	Pre-Condition	Post-Condition
meme, social ragging	Tunctions	List Description	PTC-CONDITION	r osc condition
				All discussions and threads containing the searched for word
	Search	Searching	A user will use the # symbol in order to search for a discussion or post that is relavent to what they are lookig for.	will be brought from the database and placed in order from most to least upvotes.
•	Search	searching	There should be check boxes to indicate the attribute the user	most to least upvotes.
			can use to filter and a texbox that allows them to specify the	
	Filter	Filtering	attribute (e.g Filter by date)	
	Index	Index for searching	System has an unindexed list of all the social tags.	System has indexed the list of social tags to optimize searching
Tagging gives the system a social network type of				
feel and consequently makes the system more appealing to students and other general ,				
public users.				
Theme: Rewarding	Functions	List Description	Pre-Condition	Post-Condition
-		Get UserPoints		
	Assign Benefits	Determine which benefits a user should have access to. Assign benefits	The user must be logged in and exists i.e is not a guest	The user has acquired benefits
1	Pasign benefits	Posigii delieno	The oper most be logged in and exists i.e is not a guest	The open has acquired benefits
Voting is responsible for the management of				
Voting is responsible for the management of assigning points to a thread and reducing points				
of a thread consequently it laso changes the				
Voting is responsible for the management of assigning point to a Bread and reducing points of a thread consequently it also change the Thread Owner's Userpoints				
of a thread consequently it laso changes the Thread Owner's Userpoints	Functions	list Description	Pre-Condition	Post-Condition
of a thread consequently it laso changes the	Functions	List Description	Pre-Condition	Post-Condition
of a thread consequently it laso changes the Thread Owner's Userpoints	Functions	List Description	Pre-Condition	Post-Condition
of a thread consequently it laso changes the Thread Owner's Userpoints	Functions	List Description		All discussions and threads containing the searched for word
of a thread consequently it laso changes the Thread Owner's Userpoints			A user will use the # symbol in order to search for a discussion	All discussions and threads containing the searched for word will be brought from the database and placed in order from
of a thread consequently it laso changes the Thread Owner's Userpoints		List Description	A user will use the # symbol in order to search for a discussion or post that is relavent to what they are lookig for.	All discussions and threads containing the searched for word
of a thread consequently it laso changes the Thread Owner's Userpoints	Search	Searching	A user will use the # symbol in order to search for a discussion or post that is relevent to what they are lookig for. There should be check boxes to indicate the attribute the user can use to filter and a textook that allows them to specify the	All discussions and threads containing the searched for word will be brought from the database and placed in order from
of a thread consequently it laso changes the Thread Owner's Userpoints	Search	Searching Filtering	A user will use the # symbol in order to search for a discussion or post that is relevant to what they are looking for. There should be check boxes to indicate the attribute the user can use to filter and a textoo that allows them to specify the attribute (a) filter by date).	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.
of stread consequently it laso changes the Thread Owner's Userpoints  Theme: Social Tagging	Search Filter Index	Searching	A user will use the # symbol in order to search for a discussion or post that is relevent to what they are lookig for. There should be check boxes to indicate the attribute the user can use to filter and a textook that allows them to specify the	All discussions and threads containing the searched for word will be brought from the database and placed in order from
of a thread consequently it laso changes the Thread Owner's Userpoints  Theme: Social Tagging  Tagging olives the system a social network type of	Search Filter Index	Searching Filtering	A user will use the # symbol in order to search for a discussion or post that is relevant to what they are looking for. There should be check boxes to indicate the attribute the user can use to filter and a textoo that allows them to specify the attribute (a) filter by date).	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.
of a thread consequently it laso changes the Thread Owner's Usepoints  Theme: Social Tagging  Themes social Tagging  Tagging gives the system a social network type of feel and consequently makes the system more appealing to students and other eappealing to students and other eappealing to students and other general,	Search Filter Index	Searching Filtering	A user will use the # symbol in order to search for a discussion or post that is relevant to what they are looking for. There should be check boxes to indicate the attribute the user can use to filter and a textoo that allows them to specify the attribute (a) filter by date).	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.
of a thread consequently it laso changes the Thread Owner's Userpoints  Theme: Social Tagging  Tagging gives the system a social network type of feel and consequently makes the system more	Search Filter Index	Searching Filtering	A user will use the # symbol in order to search for a discussion or post that is relevant to what they are looking for. There should be check boxes to indicate the attribute the user can use to filter and a textoo that allows them to specify the attribute (a) filter by date).	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.
of a thread consequently it laso changes the Thread Owner's Usepoints  Theme: Social Tagging  Theme: Social Tagging  Tagging gives the system a social network type of feel and consequently makes the system more appealing to students and other general, public users.	Search Filter Index	Searching Filtering Index for searching	A user will use the # symbol in order to search for a discussion or post that is relevant to what they are looking for. There should be those to bindische the attribute the user can use of filter and a teabob that allows them to specify the attribute (e.g. Filter by date).  System has an unindexed list of all the social tagz.	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.
of a thread consequently it laso changes the Thread Owner's Usepoints  Theme: Social Tagging  Themes social Tagging  Tagging gives the system a social network type of feel and consequently makes the system more appealing to students and other eappealing to students and other eappealing to students and other general,	Search Filter Index	Searching Entering Index for searching List Description	A user will use the # symbol in order to search for a discussion or post that is relevant to what they are looking for. There should be check boxes to indicate the attribute the user can use to filter and a textoo that allows them to specify the attribute (a) filter by date).	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.
of a thread consequently it laso changes the Thread Owner's Usepoints  Theme: Social Tagging  Theme: Social Tagging  Tagging gives the system a social network type of feel and consequently makes the system more appealing to students and other general, public users.	Search Filter Index	Searching  Fitering Index for searching  List Description  Get UserPorts	A user will use the # symbol in order to search for a discussion or post that is relevant to what they are looking for. There should be those to bindische the attribute the user can use of filter and a teabob that allows them to specify the attribute (e.g. Filter by date).  System has an unindexed list of all the social tagz.	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.
of a thread consequently it laso changes the Thread Owner's Usepoints  Theme: Social Tagging  Theme: Social Tagging  Tagging gives the system a social network type of feel and consequently makes the system more appealing to students and other general, public users.	Search Filter Index	Searching Entering Index for searching List Description	A user will use the # symbol in order to search for a discussion or post that is relevant to what they are looking for. There should be those to bindische the attribute the user can use of filter and a teabob that allows them to specify the attribute (e.g. Filter by date).  System has an unindexed list of all the social tagz.	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.
of a thread consequently it laso changes the Thread Owner's Usepoints  Theme: Social Tagging  Theme: Social Tagging  Tagging gives the system a social network type of feel and consequently makes the system more appealing to students and other general, public users.	Search  Filter Index  Functions	Searching Filtering Index for searching  List Description  Get UserPoints  Operating which benefits a user should have access to.	A user will use the # symbol in order to search for a discussion or post that is relivant to what they are looking for. These should be chick boosts to indicate the attribute the user can use to fifter and a tabloc that allows them to specify the authorities of a first man a tabloc that allows them to specify the authorities (# a first man as a number of a first man and a second tage.  Description is an unindexed six of all the social tage.  Pre-Condition	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.  Post-Condition
of a thread consequently it laso changes the Thread Owner's Userpoints  Theme: Social Tagging  Tagging gives the system a social network type of teel and consequently makes the system more appealing to students and other general public users.  Theme: Rewarding	Search Filter Index Functions Assign Benefits	Searching Filtering Index for searching  List Description  Get UserPoints  Operating which benefits a user should have access to.	A user will use the # symbol in order to search for a discussion or post that is relivant to what they are looking for. These should be chick boosts to indicate the attribute the user can use to fifter and a tabloc that allows them to specify the authorities of a first man a tabloc that allows them to specify the authorities (# a first man as a number of a first man and a second tage.  Description is an unindexed six of all the social tage.  Pre-Condition	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.  Post-Condition
of a thread consequently it laso changes the Thread Owner's Usepoints  Theme: Social Tagging  Tagging gives the system a social network type of feel and consequently makes the system more appealing to students and other general , public users.  Theme: Rewarding	Search Filter Index Functions Assign Benefits	Searching Filtering Index for searching  List Description  Get UserPoints  Operating which benefits a user should have access to.	A user will use the # symbol in order to search for a discussion or post that is relivant to what they are looking for. These should be chick boosts to indicate the attribute the user can use to fifter and a tabloc that allows them to specify the authorities of a first man a tabloc that allows them to specify the authorities (# a first man as a number of a first man and a second tage.  Description is an unindexed six of all the social tage.  Pre-Condition	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.  Post-Condition
of a thread consequently it laso changes the Thread Owner's Userpoints  Theme: Social Tagging  Tagging gives the system a social network type of teel and consequently makes the system more appealing to students and other general public users.  Theme: Rewarding	Search Filter Index Functions Assign Benefits	Searching Filtering Index for searching  List Description  Get UserPoints  Operating which benefits a user should have access to.	A user will use the # symbol in order to search for a discussion or post that is relivant to what they are looking for. These should be chick boosts to indicate the attribute the user can use to fifter and a tabloc that allows them to specify the authorities of a first man a tabloc that allows them to specify the authorities (# a first man as a number of a first man and a second tage.  Description is an unindexed six of all the social tage.  Pre-Condition	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.  Post-Condition
of a thread consequently it laso changes the Thread Owner's Userpoints.  Theme: Social Tagging  Tagging gives the system a social network type of feel and consequently makes the system more appealing to students and other general, public users.  Theme: Rewarding  The rewarding is responsible for assigning benefit to a user task of their over assigning benefit to a user task of their over assigning benefit to a user task of their over assigning benefit to a user task of their over assigning benefit to a user task of their over the system.	Search Filter Index Functions Assign Benefits	Searching Filtering Index for searching  List Description  Get UserPoints  Operating which benefits a user should have access to.	A user will use the # symbol in order to search for a discussion or post that is relivant to what they are looking for. These should be chick boosts to indicate the attribute the user can use to fifter and a tabloc that allows them to specify the authorities of a first man a tabloc that allows them to specify the authorities (# a first man as a number of a first man and a second tage.  Description is an unindexed six of all the social tage.  Pre-Condition	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.  Post-Condition
of a thread consequently it laso changes the Thread Owner's Userpoints  Theme: Social Tagging  Tagging gives the system a social network type of leef and consequently make the system per appealing to students and other general public users.  Theme: Rewarding  The rewarding is responsible for assigning benefits to user based on their overall participation. The higher the UserPoints the more	Search Filter Index  Functions  Assign Senefits	Searching Filtering Index for searching  List Description Get UserPoints Operations Get UserPoints Determine which benefits a user should have access to.	A user will use the # symbol in order to search for a discussion or post that is relivant to what they are looking for. These should be chick boosts to indicate the attribute the user can use to fifter and a tabloc that allows them to specify the authorities of a first man a tabloc that allows them to specify the authorities (# a first man as a number of a first man and a second tage.  Description is an unindexed six of all the social tage.  Pre-Condition	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.  Post-Condition  The user has acquired benefits
of a thread consequently it laso changes the Thread Owner's Userpoints  Theme: Social Tagging  Tagging gives the system a social network type of leef and consequently make the system per appealing to students and other general public users.  Theme: Rewarding  The rewarding is responsible for assigning benefits to user based on their overall participation. The higher the UserPoints the more	Search Filter Index Functions Assign Benefits	Searching Filtering Index for searching  List Description Get UserPoints Operations Get UserPoints Determine which benefits a user should have access to.	A user will use the # symbol in order to search for a discussion or post that is relevant to what they are looking for. These should be chick boosts to indicate the attribute the user can use to fifter and a tabloc that allows them to specify the authorities of a first man a tabloc that allows them to specify the authorities (# a first man as a number of a first man and a second tage.  Pre-Condition	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.  Post-Condition
of a thread consequently it laso changes the Thread Owner's Userpoints  Theme: Social Tagging  Tagging gives the system a social network type of leef and consequently make the system note appealing to students and other general , public users.  Theme: Rewarding  The rewarding is responsible for assigning benefits to user based on their overall participation. The higher the UserPoints the more functionality benefits a user will obtain.	Search Filter Index  Functions  Assign Senefits	Searching  Filtering Index for searching  Ust Description  Get UserPoint Determine which benefits a user should have access to Assign benefits  List Description  Add a category to the system	A user will use the # symbol in order to search for a discussion or post that is relavant to what they are looking for. These should be factor, boards to indicate the attribute the user can use to fifter and a teabor stat allows them to specify the attribute (a Fafter by sheet).  System has an unindexed first of all the social tags.  Pre-Condition  The user must be logged in and exists i.e is not a guest.	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.  Post-Condition  The user has acquired benefits
of a thread consequently it laso changes the Thread Owner's Userpoints  Theme: Social Tagging  Tagging gives the system a social network type of leef and consequently make the system note appealing to students and other general , public users.  Theme: Rewarding  The rewarding is responsible for assigning benefits to user based on their overall participation. The higher the UserPoints the more functionality benefits a user will obtain.	Search Filter Index Functions Assign Senefts Functions Create a Category	Searching  Filtering Index for searching  List Description  Get UserPoints Determine which benefits a user should have access to Assign benefits  List Description  Add a research to the system Locate category to the system	A user will use the # symbol in order to search for a discussion or post that is relevant to what they are locking for. These should be concluded to what they are locking for three should be concluded to the source of the sour	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.  Post-Condition  The user has acquired benefits  Post-Condition  A new category is added to the system.
of a thread consequently it laso changes the Thread Owner's Userpoints  Theme: Social Tagging  Tagging gives the system a social network type of leef and consequently make the system note appealing to students and other general , public users.  Theme: Rewarding  The rewarding is responsible for assigning benefits to user based on their overall participation. The higher the UserPoints the more functionality benefits a user will obtain.	Search Filter Index  Functions  Assign Senefits  Functions	Searching  Entering Index for searching  List Description  Out LiverProtect  Out LiverProtect  Assign benefits  List Description  Add a reageny to the system.  Add acceptance to the system, Remove Category from the large category from the system category from the	A user will use the # symbol in order to search for a discussion or post that it relevant to what they are looking for.  In the property of the property of the search of the user than use for the and a testion that a looks them to specify the attribute (e.g. Filter by date).  System has an unindexed list of all the social tage.  Pre-Condition  The user must be logged in and exists i.e. is not a puest.	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upcotes.  System has indexed the list of social tags to optimize searching.  Post-Condition  The user has acquired benefits.
of a thread consequently it laso changes the Thread Owner's Userpoints  Theme: Social Tagging  Tagging gives the system a social network type of leef and consequently make the system note appealing to students and other general , public users.  Theme: Rewarding  The rewarding is responsible for assigning benefits to user based on their overall participation. The higher the UserPoints the more functionality benefits a user will obtain.	Search Filter Index Functions Assign Senefts Functions Create a Category	Searching  Filtering Index for searching  List Description  Get UserPoints Determine which benefits a user should have access to Assign benefits  List Description  Add a research to the system Locate category to the system	A user will use the # symbol in order to search for a discussion or post that is relevant to what they are locking for. These should be concluded to what they are locking for three should be concluded to the source of the sour	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.  Post-Condition  The user has acquired benefits  Post-Condition  A new category is added to the system.
of a thread consequently it also changes the Thread Owner's Userpoints  Theme: Social Tagging  Tegging gives the system a social network type of feel and consequently makes the system more appealing to students and other general , public users.  Theme: Rewarding in responsible for assigning benefit to suer based on their overall participation. The higher the UserPoints the more functionality benefits a user will obtain.  Theme: BuzzSpace	Search Filter Index Index Functions Assign Senefits Functions Create a Creacory Delicing a Category	Searching  Eitering Index for searching  List Description  Gat UserPoints  Determine which benefits a user should have access to Assign benefits  List Description  Add category to the system The Company of the Compan	A user will use the # symbol in order to search for a discussion or post that is relevant to what they are looking for.  There should be close to brinders the attribute the user stribute in a stribute in the stribute in th	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.  Post-Condition  The user has acquired benefits  Post-Condition  A rev category's solded to the system  Category's moved from the system  Category's moved from the system
of a thread consequently it laso changes the Thread Owner's Userpoints.  Theme: Social Tagging  Tagging gives the system a social network type of feel and consequently makes the system more appealing to students and other general public users.  Theme: Rewarding  The rewarding is responsible for assigning benefit to a user based on their overall participation.  The higher the UserPoints the more functionally benefits a user will obtain.  Theme: BuzzSpace	Search Filter Index Index Functions Assign Senefits Functions Create a Creacory Delicing a Category	Searching  Eitering Index for searching  List Description  Gat UserPoints  Determine which benefits a user should have access to Assign benefits  List Description  Add category to the system The Company of the Compan	A user will use the # symbol in order to search for a discussion or post that is relevant to what they are looking for.  There should be close to brinders the attribute the user stribute in a stribute in the stribute in th	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.  Post-Condition  The user has acquired benefits  Post-Condition  A rev category's solded to the system  Category's moved from the system  Category's moved from the system
of a thread consequently it lase changes the Thread Owner's Userpoints  Theme: Social Tagging  Tagging gives the system a social network type of feel and consequently makes the system more appealing to the system and the system more appealing to the system more appealing to th	Search Filter Index Index Functions Assign Senefits Functions Create a Creacory Delicing a Category	Searching  Eitering Index for searching  List Description  Gat UserPoints  Determine which benefits a user should have access to Assign benefits  List Description  Add category to the system The Company of the Compan	A user will use the # symbol in order to search for a discussion or post that is relevant to what they are looking for.  There should be close to brinders the attribute the user stribute in a stribute in the stribute in th	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.  Post-Condition  The user has acquired benefits  Post-Condition  A rev category's solded to the system  Category's moved from the system  Category's moved from the system
of a thread consequently it laso changes the Thread owner's Userpoints  Theme: Social Tagging  Tagging gives the system a social network type of feel and consequently makes the system more appealing to students and other general public users.  Theme: Rewarding  Theme: Rewarding is responsible for assigning benefit to a user based on their overall participation.  The higher the UserPoints the more functionally the health of the control of	Search Filter Index Index Functions Assign Senefits Functions Create a Creacory Delicing a Category	Searching  Eitering Index for searching  List Description  Gat UserPoints  Determine which benefits a user should have access to Assign benefits  List Description  Add category to the system The Company of the Compan	A user will use the # symbol in order to search for a discussion or post that is relevant to what they are looking for.  There should be close to brinders the attribute the user stribute in a stribute in the stribute in th	All discussions and threads containing the searched for word will be brought from the database and placed in order from most to least upvotes.  System has indexed the list of social tags to optimize searching.  Post-Condition  The user has acquired benefits  Post-Condition  A rev category's solded to the system  Category's moved from the system  Category's moved from the system

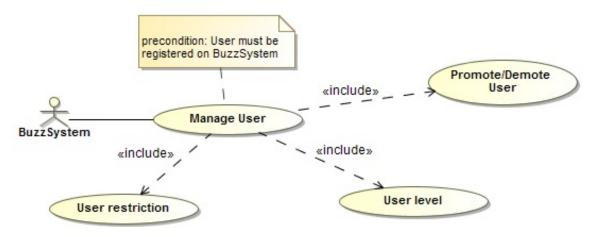
#### 2.3 Required functionality



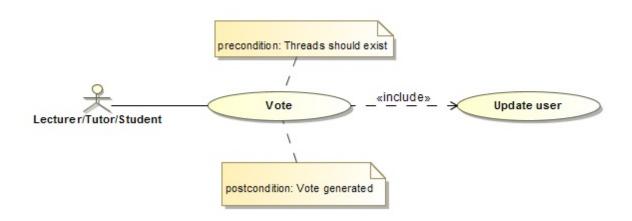
#### REWARDING



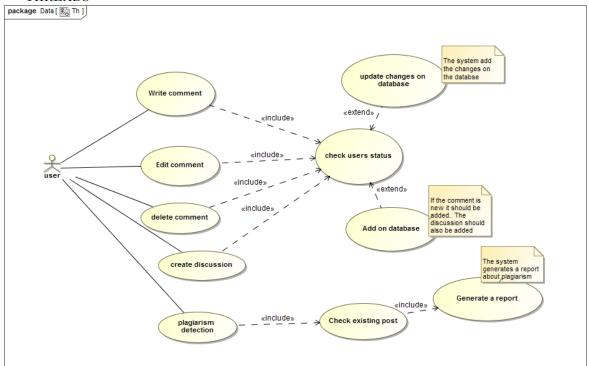
#### USERMANAGEMENT



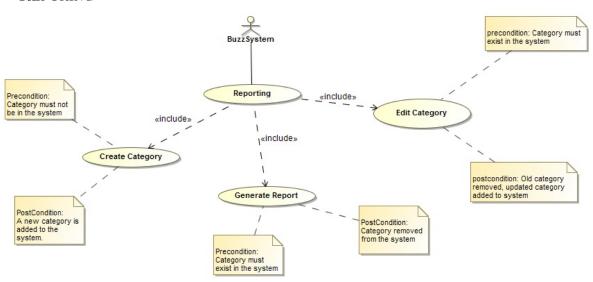
#### Vote



#### THREADS

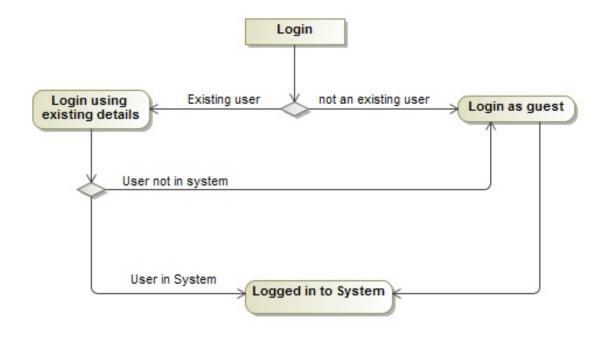


#### Reporing

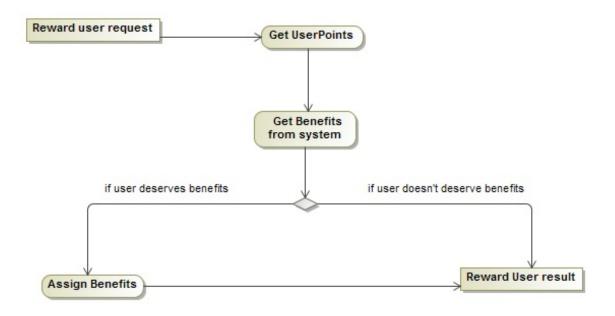


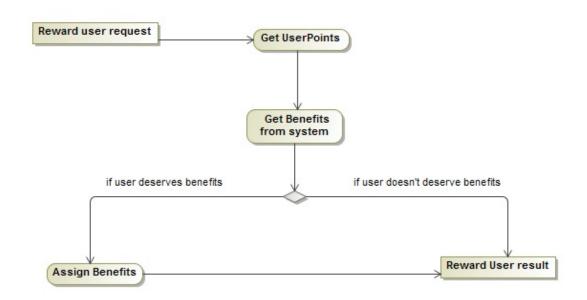
## 2.4 Process specifications

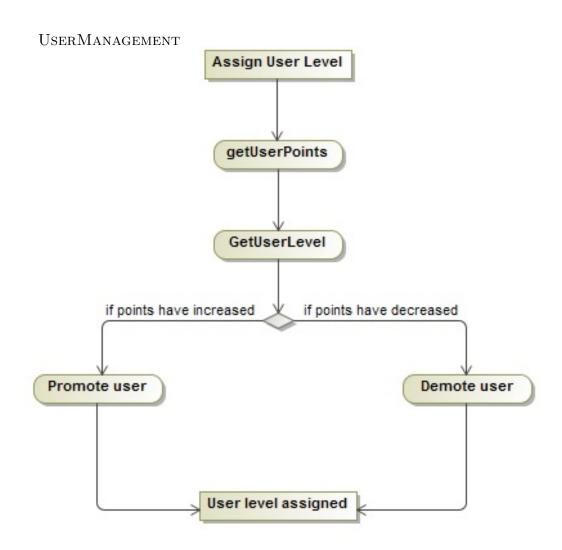
Login

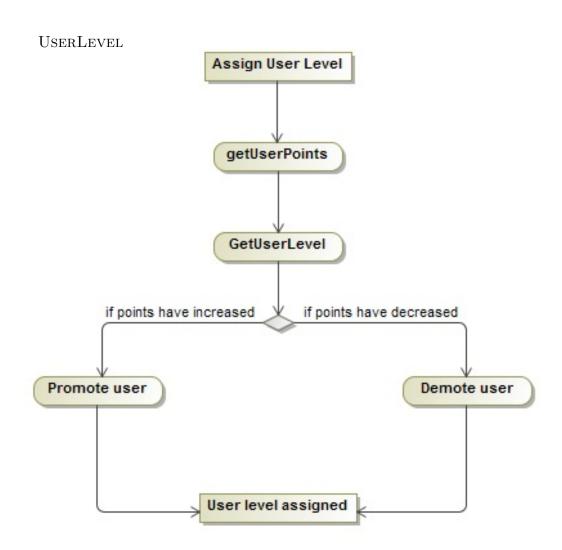


#### REWARDING









## 2.5 Domain Model

