

UNIVERSITEIT VAN PRETORIA UNIVERSITY OF PRETORIA YUNIBESITHI YA PRETORIA

COS 301

DEPARTMENT OF COMPUTER SCIENCE

Phase 1 Mini Project

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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.

https://bitbucket.org/cos301group7_brequirements/phase1

2 Functional requirements and application design

2.1 Use case prioritization

Critical

- UserManagement
- Posting
- BuzzSpace

Important

- Category
- Vote
- Important

Nice to Have

- tagging
- Rewarding

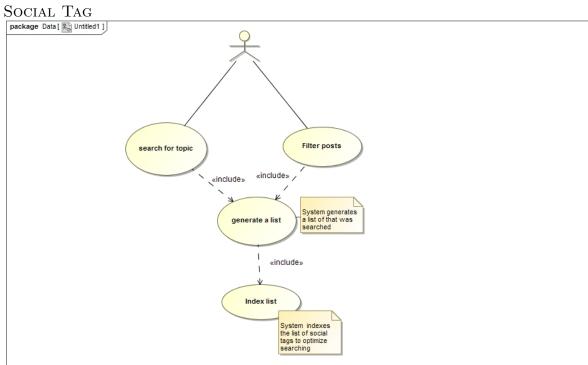
2.2 Use case/Services contracts

	Use Cases			
Theme: Category	Functions	List Description	Pre-Condition	Post-Condition
Categories are used to group content and they are created! accessed by users with appropriate user authorisation e.g. Lecturers. It also facilitates searching.	Create a Category Deleting a Category Edit Categories	Add a category to the system. Locate category in the system. Remove category from the Access the category and make desired changes, save the	The category must not be in the system The category must exist in the system The category must exist in the system	A new category is added to the system Category removed from the system An updated category is added to the system
Theme: User Management	Functions	List Description	Pre-Condition	Post-Condition
Mesage the users of the system and keeps track of their overall participation and a contract of their overall participation ratestranks them according to their participation. Every user will have different oababilities depending on their level	Assign UserLevel	Giet 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 Demote user Login Login	Get UserLevel and UserPoints, if the user's points have increased promote user to a higher level if their points correspond to that level. Get UserLevel and UserPoints, if the user's points have Checks if user exists on the LADP database and logs the System checks if user is logged in and logs the user out of	User is logged and is not a guest User. User is logged and is not a guest User. The user has entered their oredentials. The user has entered their oredentials.	The user will be promoted to a higher level. The user will be demoted to a lower level The user will be logged into the system. The user will be logged out of the system.
Theme: Threads	Functions	List Description	Pre-Condition	Post-Condition
	Create Thread	Check if user is allowed to create a thread. Create a new thread and add it to the the system	The user must be logged in and allowed to create a thread. The thread must not exist in the system.	New thread added to the system.
	Edit Thread	Check if user is allowed to edit that thread. Get the thread from the system and make desired changes and save the updated thread.	The user must be logged in and allowed to edit a thread. The thread must exist in the susutem	The thread will be updated in the system
Threads provide users with the capability of expressing their views! suggestions regarding the concepts covered in each module and any other	Delete Thread	Check if user is allowed to delete that thread. Get the thread from the system if it exists remove thread from system.	The user must be logged in and allowed to delete a thread. The thread must exist in the sysytem	Thread will be removed from the system
general topic.	Detect Plaigiarism	Get the current thread.	There post should exist so that it can be checked for	The system should indicate the plagiarism percentage

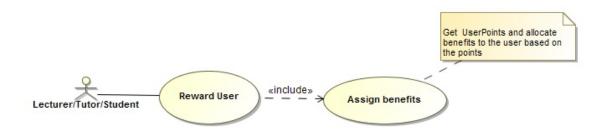
Theme: Reporting	Functions	List Description	Pre-Condition	Post-Condition
	Generate report	Get the type of user	The user must be logged in and exists and is requesting a	A generated report is returned to the user.
Reporting is used to determine the performance of				
not only the user				
but also each BuzzSpace and				
the system as a whole.				
Theme: Voting	Functions	List Description	Pre-Condition	Post-Condition
				The threads number of upvotes will increase by one upvote
				after a user has upvoted. This information will be saved in
		Get thread from a system	User must be logged in and allowed to upvote a thread.	the database and the system will keep track of the total
	Upvoting	Increase the thread's points or number of votes.	The thread must exist.	upvotes.
				after a user has upvoted. This information will be saved in
		Get thread from a system	User must be logged in and allowed to downvote a thread.	the database and the system will keep track of the total
	Downvoting	Decrease the thread's points or number of votes.	The thread must exist.	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			 	
Trilead Owler's oserpolitis				
Theme: Social Tagging	Functions	List Description	Pre-Condition	Post-Condition
			A user will use the # symbol in order to search for a	All discussions and threads containing the searched for
			discussion or post that is relavent to what they are lookig	word will be brought from the database and placed in order
	Search	Searching	for.	from most to least upvotes.
	Filter	Filtering	There should be check boxes to indicate the attribute the	
	Index	Index for searching	System has an unindexed list of all the social tags.	System has indexed the list of social tags to optimize
Tagging gives the system a social network type of			-	
feel and consequently makes the system more appealing to students and other general.			-	
appealing to students and other general , public users.				
papiid Users.	-		•	•

Theme: Rewarding	Functions	List Description	Pre-Condition	Post-Condition
-	Assign Benefits	Get UserPointsDetermine which benefits a user should have	The user must be logged in and exists i.e is not a guest	The user has acquired benefits
The rewarding is responsible for assigning benefits				
to a user based on their overall partoipation.				
The higher the UserPoints the more				
functionality benefits a user will obtain.				
Theme: BuzzSpace	Functions	List Description	Pre-Condition	Post-Condition
		Add a BuzzSpace to the system	The BuzzSpace must not be in the system	A new BuzzSpace is added to the system
	Deleting a BuzzSpace	Locate BuzzSpace in the system , Remove BuzzSpace from	The BuzzSpace must exist in the system	BuzzSpace removed from the system
BuzzSpaces are assigned to each module and module		Access the BuzzSpace and make desired changes, save the		
they group the content for each module.	Edit BuzzSpace	changes	The BuzzSpace must exist in the system	An updated BuzzSpace is added to the system

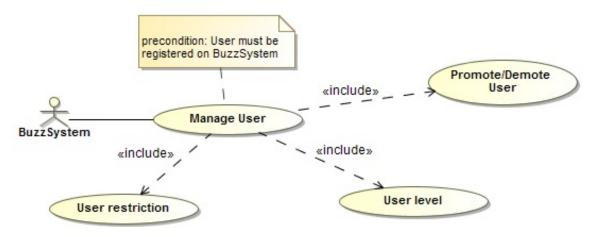
2.3 Required functionality



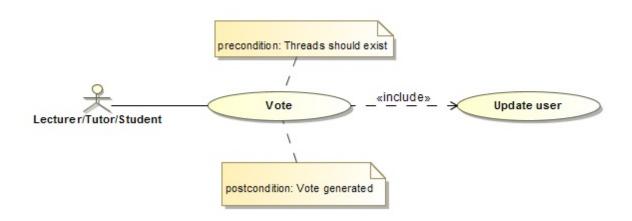
REWARDING



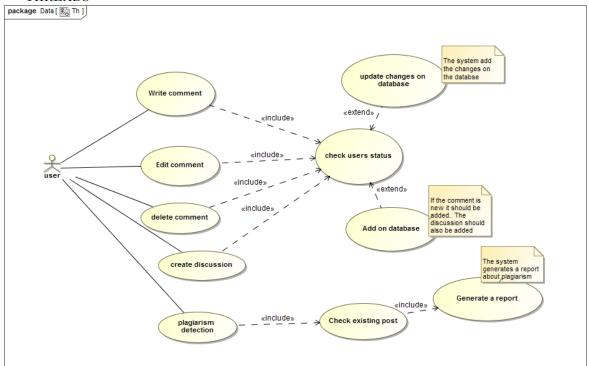
USERMANAGEMENT



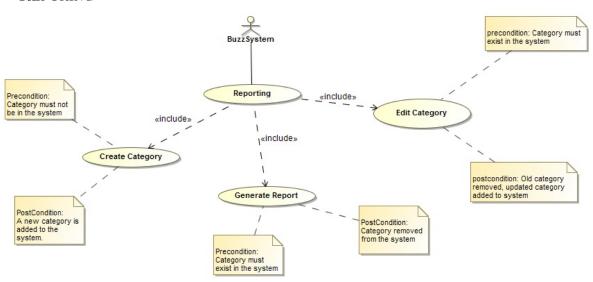
Vote



THREADS

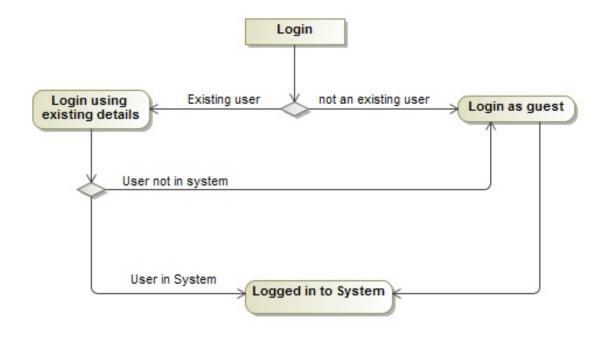


Reporing

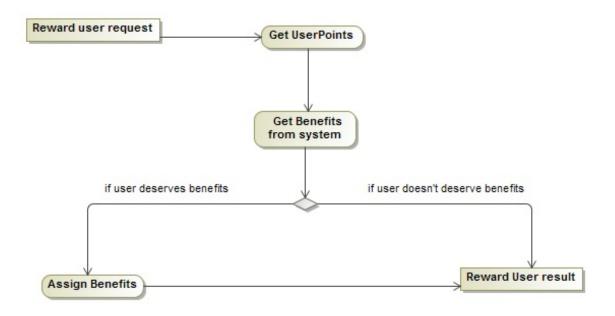


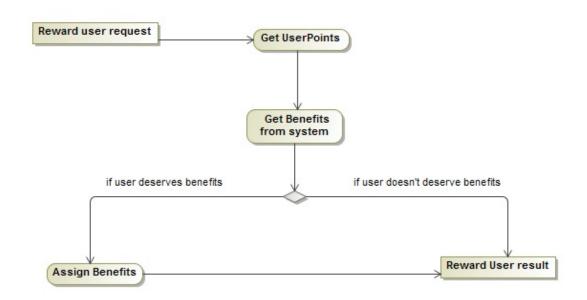
2.4 Process specifications

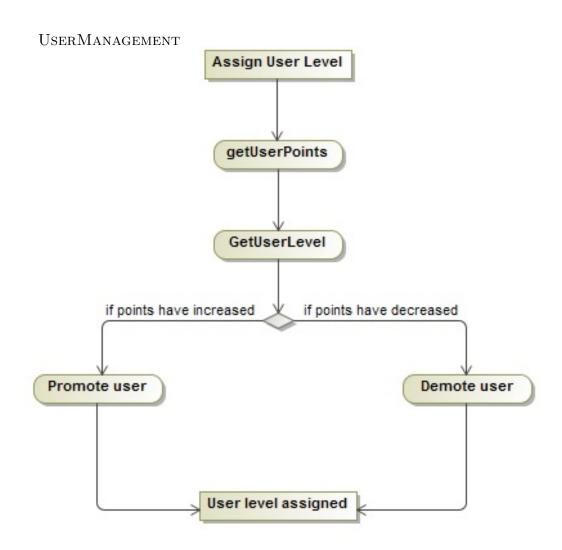
Login

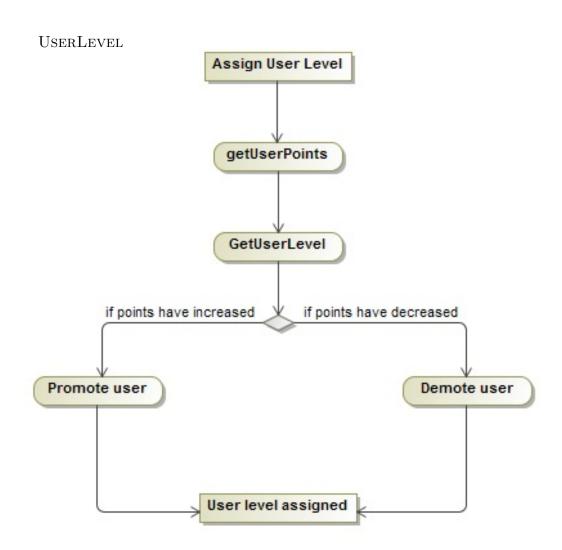


REWARDING

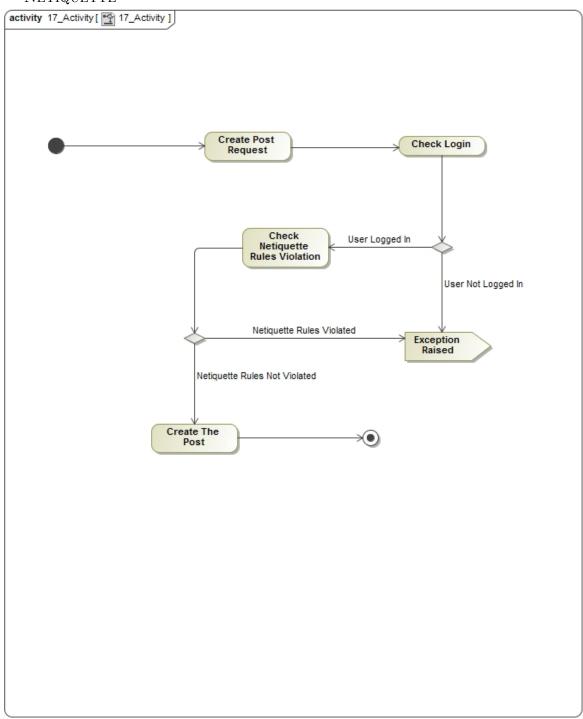








Netiquete



2.5 Domain Model

