



UNIVERSITEIT VAN PRETORIA  
UNIVERSITY OF PRETORIA  
YUNIBESITHI YA PRETORIA

---

DEPARTMENT OF COMPUTER SCIENCE

COS 301 - SOFTWARE ENGINEERING

---

## COS 301 - Mini Project

---

*Author:*

Hanrich Potgieter

Chris Cloete

Jason Richard Evans

Kale-ab Tessera

Lelethu Zazaza

Goodness Adegbenro

Herman Willem Keuris

William Seloma

*Student number:*

u12287343

u13029721

u13032608

u13048423

u13028023

u13046412

u13037618

u10155865

February 26, 2015

# DECLARATION OF ORIGINALITY

## UNIVERSITY OF PRETORIA

The University of Pretoria places great emphasis upon integrity and ethical conduct in the preparation of all written work submitted for academic evaluation.

While academic staff teach you about referencing techniques and how to avoid plagiarism, you too have a responsibility in this regard. If you are at any stage uncertain as to what is required, you should speak to your lecturer before any written work is submitted.

You are guilty of plagiarism if you copy something from another author's work (e.g. a book, an article or a website) without acknowledging the source and pass it off as your own. In effect you are stealing something that belongs to someone else. This is not only the case when you copy work word-for-word (verbatim), but also when you submit someone else's work in a slightly altered form (paraphrase) or use a line of argument without acknowledging it. You are not allowed to use work previously produced by another student. You are also not allowed to let anybody copy your work with the intention of passing it off as his/her work.

Students who commit plagiarism will not be given any credit for plagiarised work. The matter may also be referred to the Disciplinary Committee (Students) for a ruling. Plagiarism is regarded as a serious contravention of the University's rules and can lead to expulsion from the University.

The declaration which follows must accompany all written work submitted while you are a student of the University of Pretoria. No written work will be accepted unless the declaration has been completed and attached.

Full names of students: \_\_\_\_\_

Student numbers: \_\_\_\_\_

Topic of work: \_\_\_\_\_

### Declaration

1. I understand what plagiarism is and am aware of the University's policy in this regard.
2. I declare that this assignment report is my own original work. Where other people's work has been used (either from a printed source, Internet or any other source), this has been properly acknowledged and referenced in accordance with departmental requirements.
3. I have not used work previously produced by another student or any other person to hand in as my own.
4. I have not allowed, and will not allow, anyone to copy my work with the intention of passing it off as his or her own work.

SIGNATURES: \_\_\_\_\_ DATE: \_\_\_\_\_

# SOFTWARE REQUIREMENTS SPECIFICATION AND TECHNOLOGY NEUTRAL PROCESS DESIGN

## BUZZ SPACE DISCUSSIONS/MINI PROJECT

Version: Version 0.2 Alpha For further references see [gitHub](#). February 26, 2015

# Contents

1	Functional requirements . . . . .	4
1.1	Introduction . . . . .	4
1.2	Use case prioritiation . . . . .	5
1.3	Use case/Service contracts . . . . .	6
1.4	Required functionality . . . . .	6
1.5	Process specification . . . . .	12
1.6	Domain Model . . . . .	15

For further references see [gitHub](https://github.com/DieBaber/COS301-GROUP6-A.git) or got to the link <https://github.com/DieBaber/COS301-GROUP6-A.git>

# 1 Functional requirements



## 1.1 Introduction

We use this document to give a high level overview of the buzz discussion board. We have identified the various components. Our purpose is to create a dynamic and scalable solution. We also want to include an achievement system that rewards users for using the discussion board. This document will inform you on how we will achieve a system that is both scalable and pluggable. We have identified the use cases of the various components of the discussion board.

## 1.2 Use case prioritiation

### Critical

- BuzzSpace
- CRUD posts(Creating,Reading; Updating; Deleting).
- System Access
- Information Management

### Important

- User Management
- Communication(Notifications)
- Reporting

### Nice-To-Have

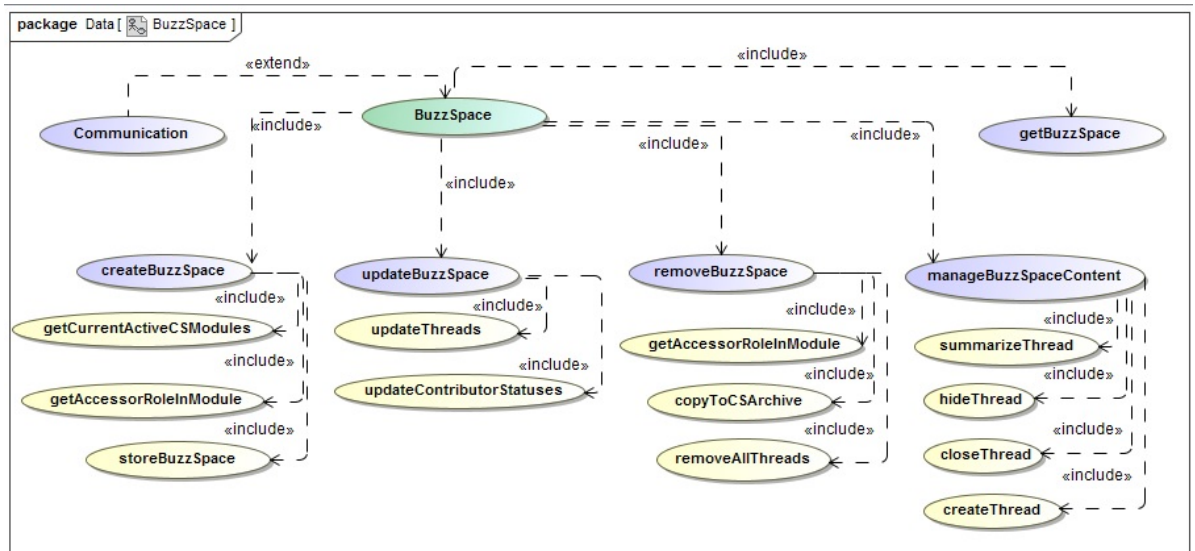
- Achievement/Rewards System
- Reporting
- Summaries

### 1.3 Use case/Service contracts

Use Case	Pre Condition	Post Condition	Description
BuzzSpace	There must be a valid user	User must still exist	This use case provides an interface that facilitates management of threads
Information Management			
Communication	A user needs to be registered in order to have notifications sent to his profile inside the application. For e-mails to be sent, a valid and up-to-date e-mail address is needed on the user database.	A notification should visibally be highlighted in the application with appropriate messages. In some cases, an email is sent out from the system.	This use case specifies all the functions that the Buzz system needs to have in order to communicate important information with the user.
Summaries			
Achievement Rewards System	A user's level requires Achievements to be allocated and/or rewards to be awarded	Achievements are allocated and/or rewards are awarded	This use case provides a system that allocates achievements to users based on their levels and the votes they aquired. it also provides a system that awards rewards to users based on their achievements.
Access	The user will need a browser to view the website.	Threads and posts are displayed in descending order by date.	Details how an end-user will be able to access the Buzz system.
Validation	Post is palgiarised and/or does not follow netiquette	Post is valid against rules	
User Management			
Reporting	Data must be available to report on.	Data must not be corrupt.	This use case generate report for all actors

### 1.4 Required functionality

- **BuzzSpace.** A Buzz Space is a integral component of the Buzz System which facilitates the management of threads added by its users. Buzz Spaces may be created for each active module in the Computer Science Department in order to promote intuitive communication between the Computer Science staff and its students.

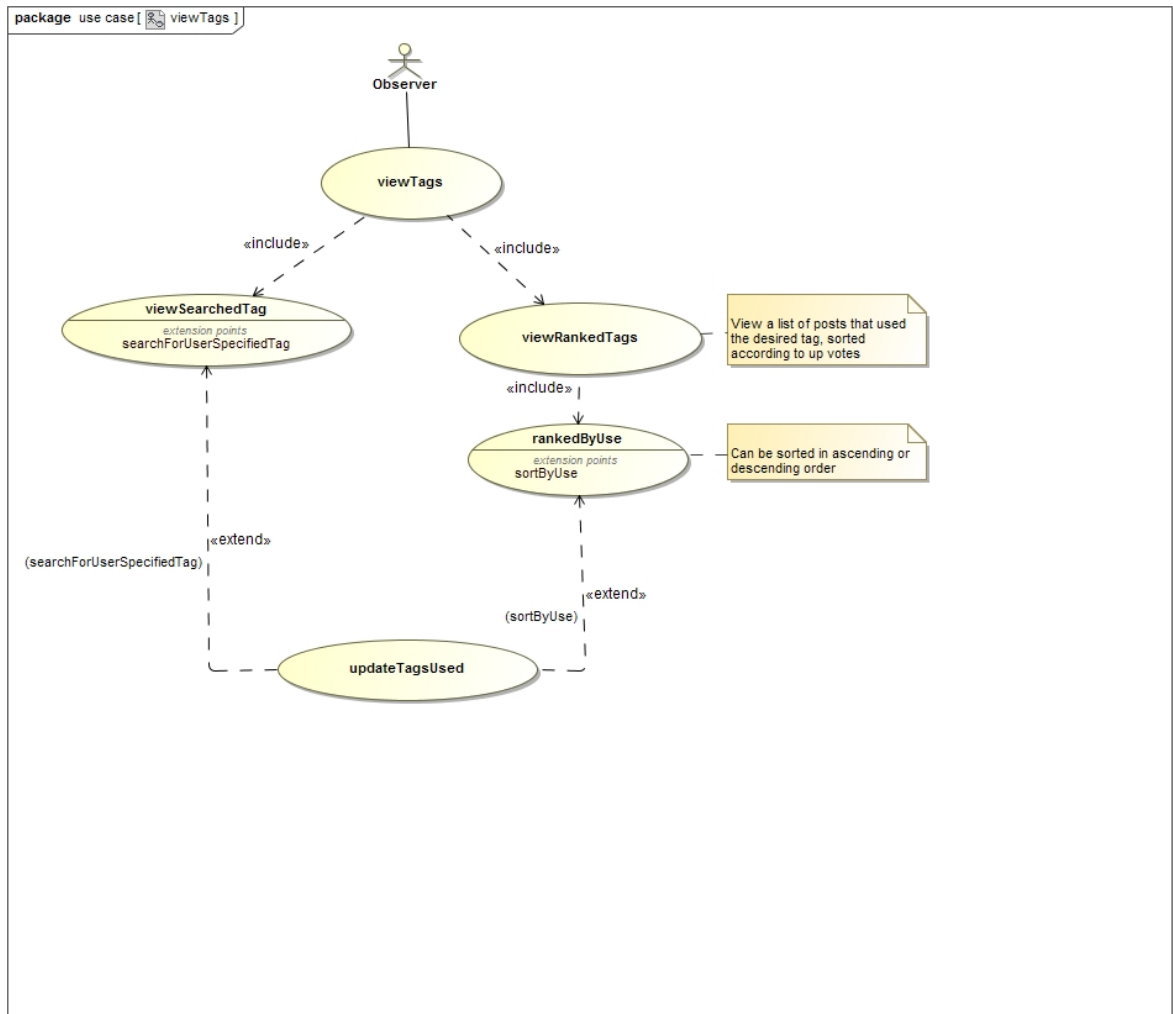




- **Validation.** This module will be used to make sure that post follow certain rules and help generate certain reports regarding these rules.



- **Information Management**

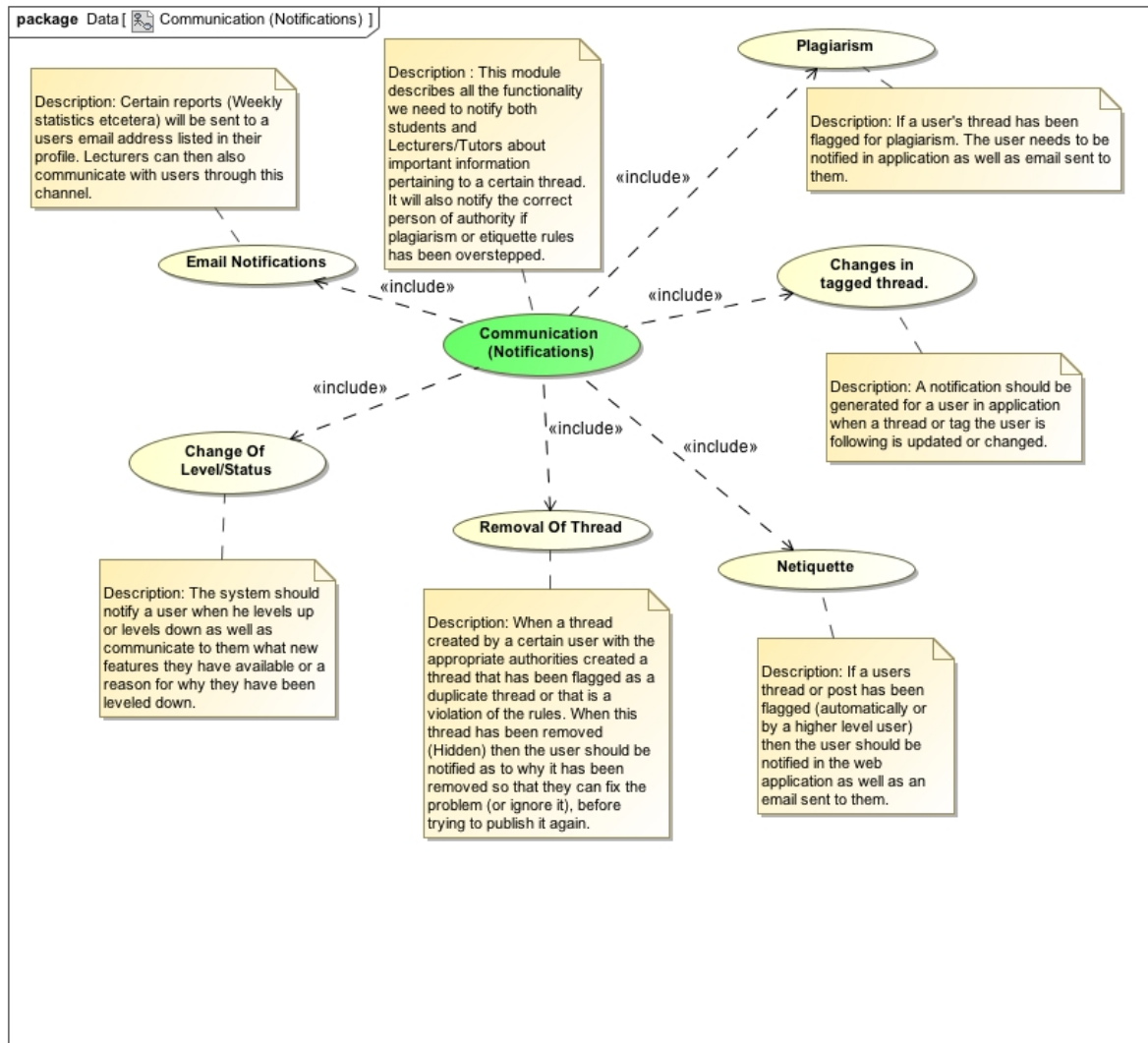


- Reporting.** We will use the reporting module to generate quite a few reports regarding the Buzz Space system. It will be a key player in adding value to lecturers and students. Each student can easily general a report regarding their own contributions towards a Buzz Space. Lecturers will be able to grade student performance and see how much plagiarism has occurred. The system administrators will be able to check for system bugs and see error logs.



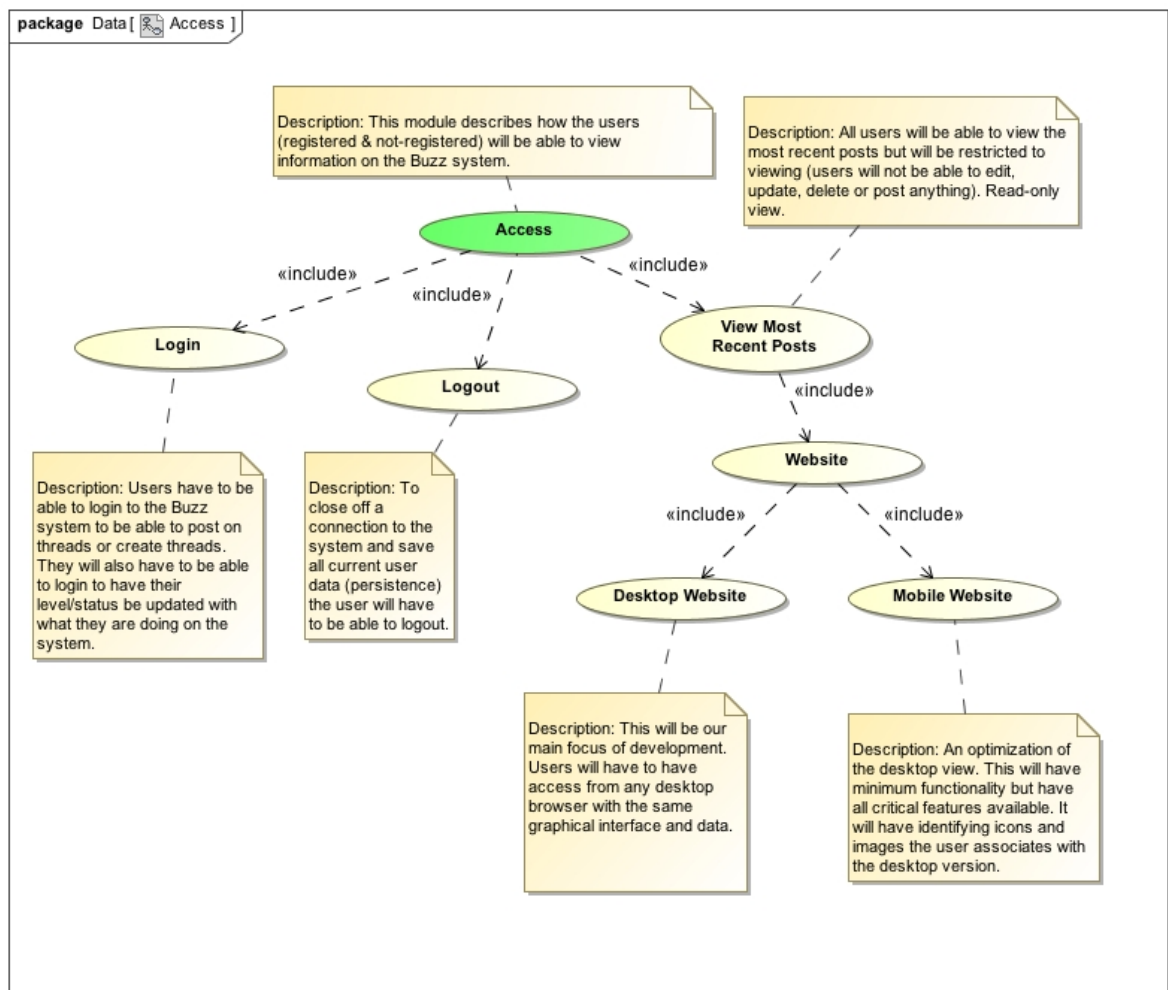
- **Communication (Notifications)**

This module describes the way the Buzz System will communicate with its users inside of the application as well as sending information and/or reports from the Buzz system to an external system such as email notifications.



- **Access**

The use case below shows how a end-user will be able to access the Buzz system. Although a user may not be registered, they should still be able to view and read threads and posts.

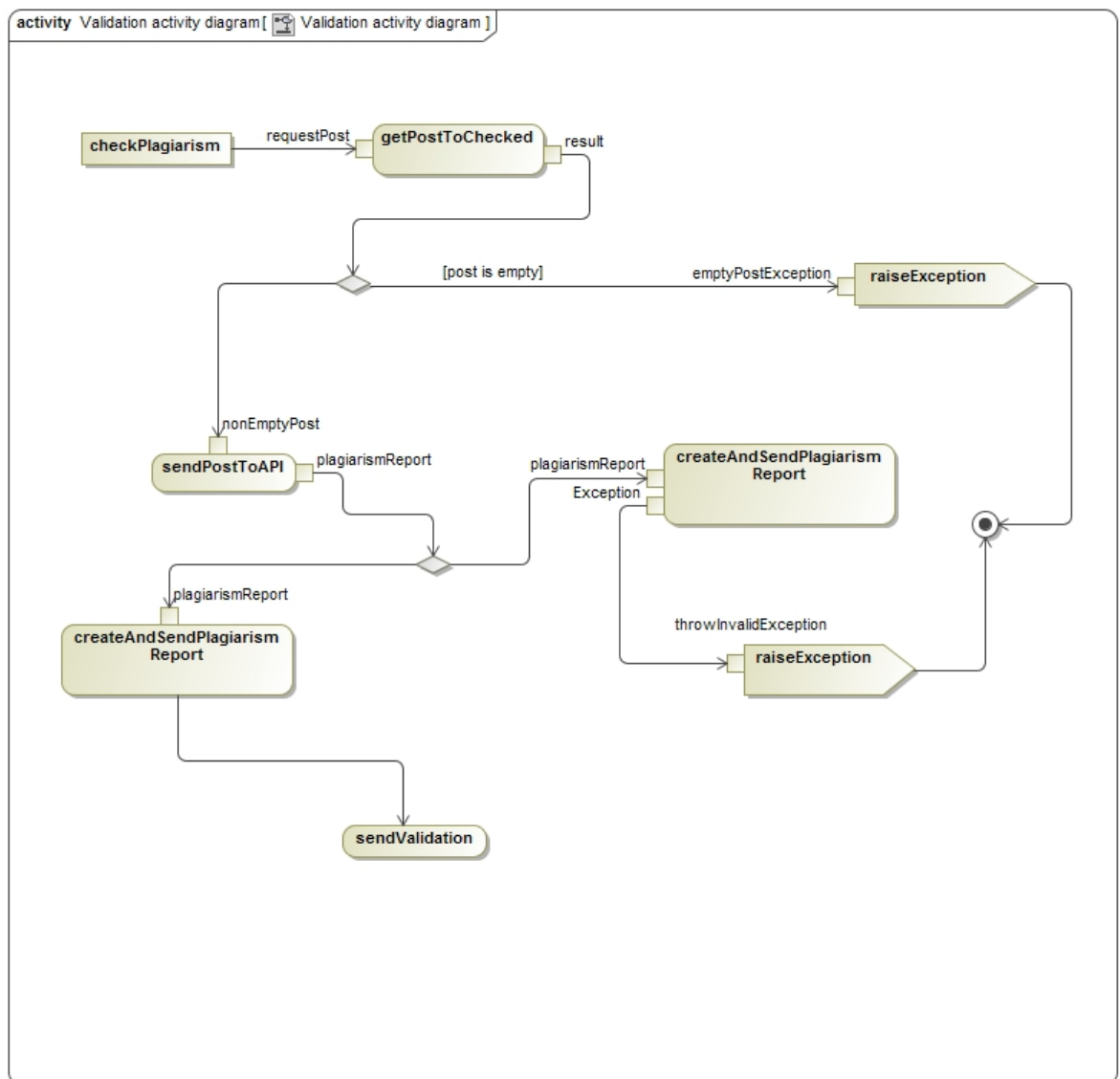


## 1.5 Process specification

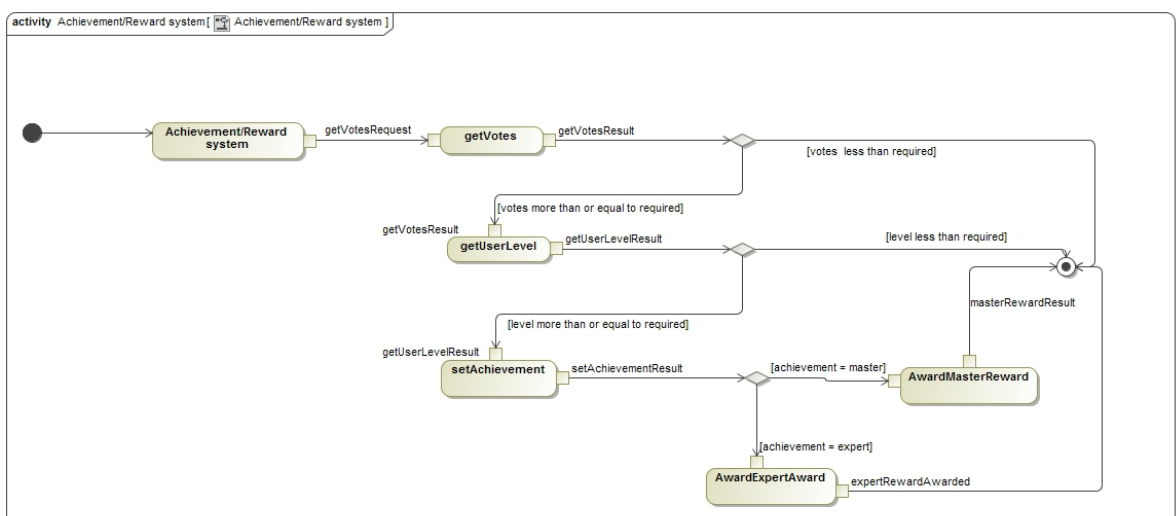
We want to show various important process specification of our recommendation.

- CreateBuzzSpace





- Achievement/Rewards system



## 1.6 Domain Model

