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# DEPARTMENT OF COMPUTER SCIENCE

COS 301 - SOFTWARE ENGINEERING

# COS 301 - Mini Project

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# 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

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For further references see gitHub 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

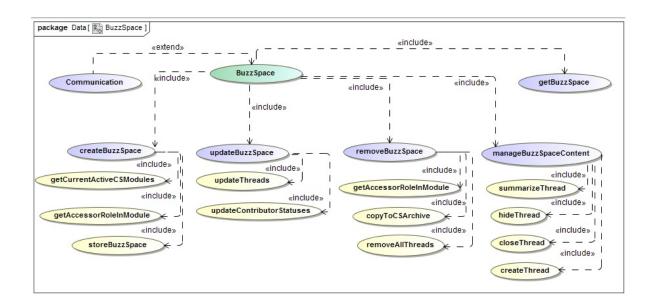
- Achievement/Rewards System
- Reporting
- Summaries

# 1.3 Use case/Service contracts

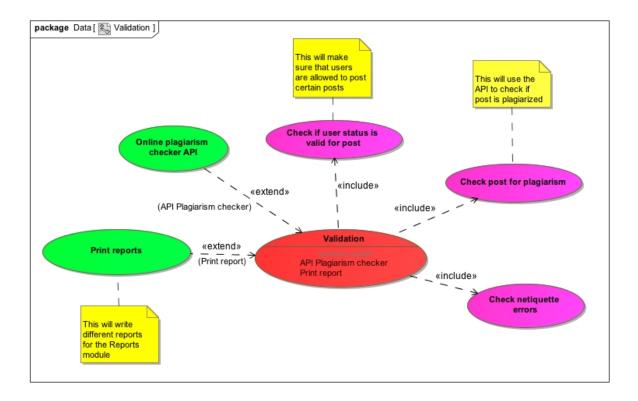
| Use Case       | Pre Condition           | Post Condition         | Description              |
|----------------|-------------------------|------------------------|--------------------------|
| BuzzSpace      | There must be a valid   | User must still exist  | This use case provides   |
|                | user                    |                        | an interface that facil- |
|                |                         |                        | itates management of     |
|                |                         |                        | threads                  |
| Information    |                         |                        |                          |
| Management     |                         |                        |                          |
| Communication  |                         |                        |                          |
| Summaries      |                         |                        |                          |
| Achievement    | A user's level requires | Achievements are allo- |                          |
| Rewards System | Achievements to be      | cated and/or rewards   |                          |
|                | allocated and/or re-    | are awarded            |                          |
|                | wards to be awarded     |                        |                          |
| Summaries      |                         |                        |                          |
| Access         |                         |                        |                          |
| Summaries      |                         |                        |                          |
| Validation     | Post is palgiarised     | Post is valid against  |                          |
|                | and/or does not         | rules                  |                          |
|                | follow netiquette       |                        |                          |
| User Manage-   |                         |                        |                          |
| ment           |                         |                        |                          |
| Reporting      | Data must be avail-     | Data must not be cor-  | This use case generate   |
|                | able to report on.      | rupt.                  | 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

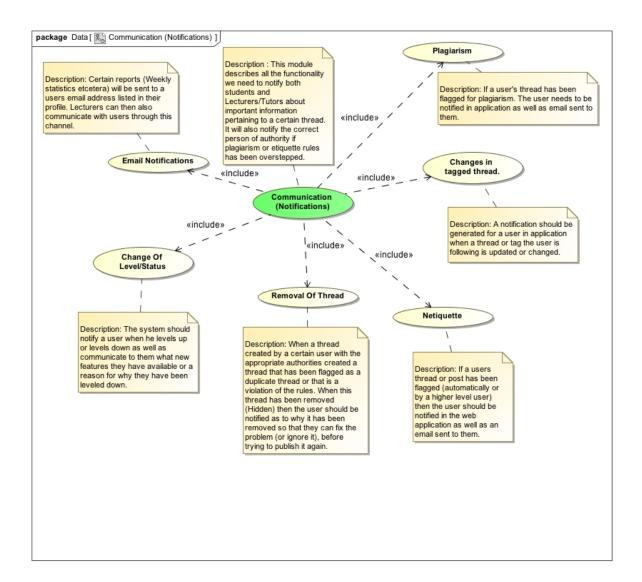


• Reporting. We will use the reporting module to generate quite a few reports regarding the Buzz Space system. It will be a key player in adding value to lecturers and students. Each student can easily general a report regarding their own contributions towards a Buzz Space. Lecturers will be able to 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)

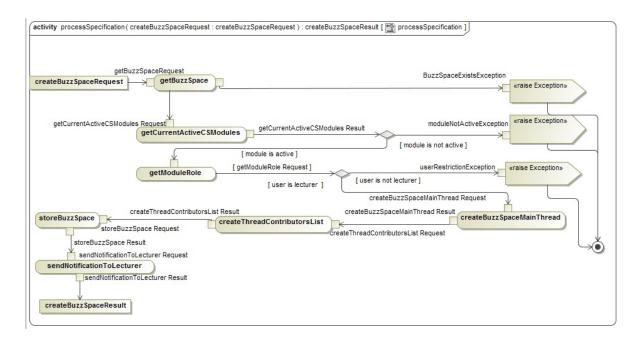
This module describes the way the Buzz System will communicate with its users inside of the application as well as sending information and/or reports from the Buzz system to an external system such as email notifications.



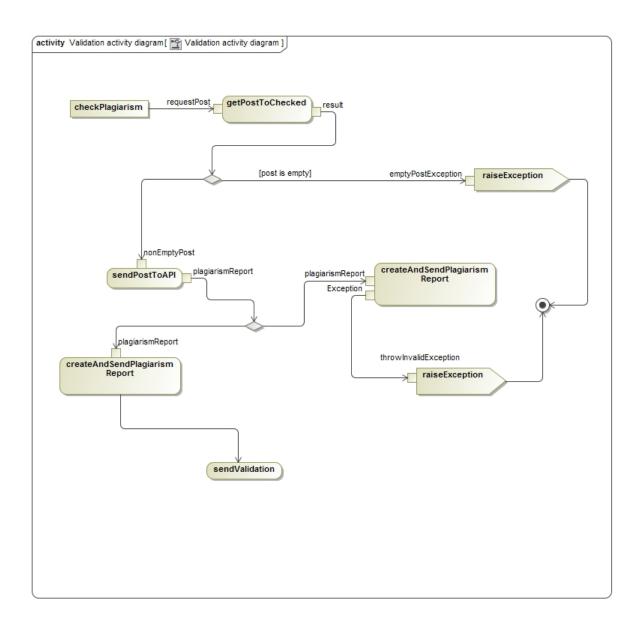
## 1.5 Process specification

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

• CreateBuzzSpace



### • Validation



## 1.6 Domain Model