



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
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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

Student number:

u12287343

u13029721

u13032608

u13048423

u13028023

u13046412

u13037618

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SIGNATURES: _____ DATE: _____

SOFTWARE REQUIREMENTS SPECIFICATION AND TECHNOLOGY NEUTRAL PROCESS DESIGN

BUZZ SPACE DISCUSSIONS/MINI PROJECT

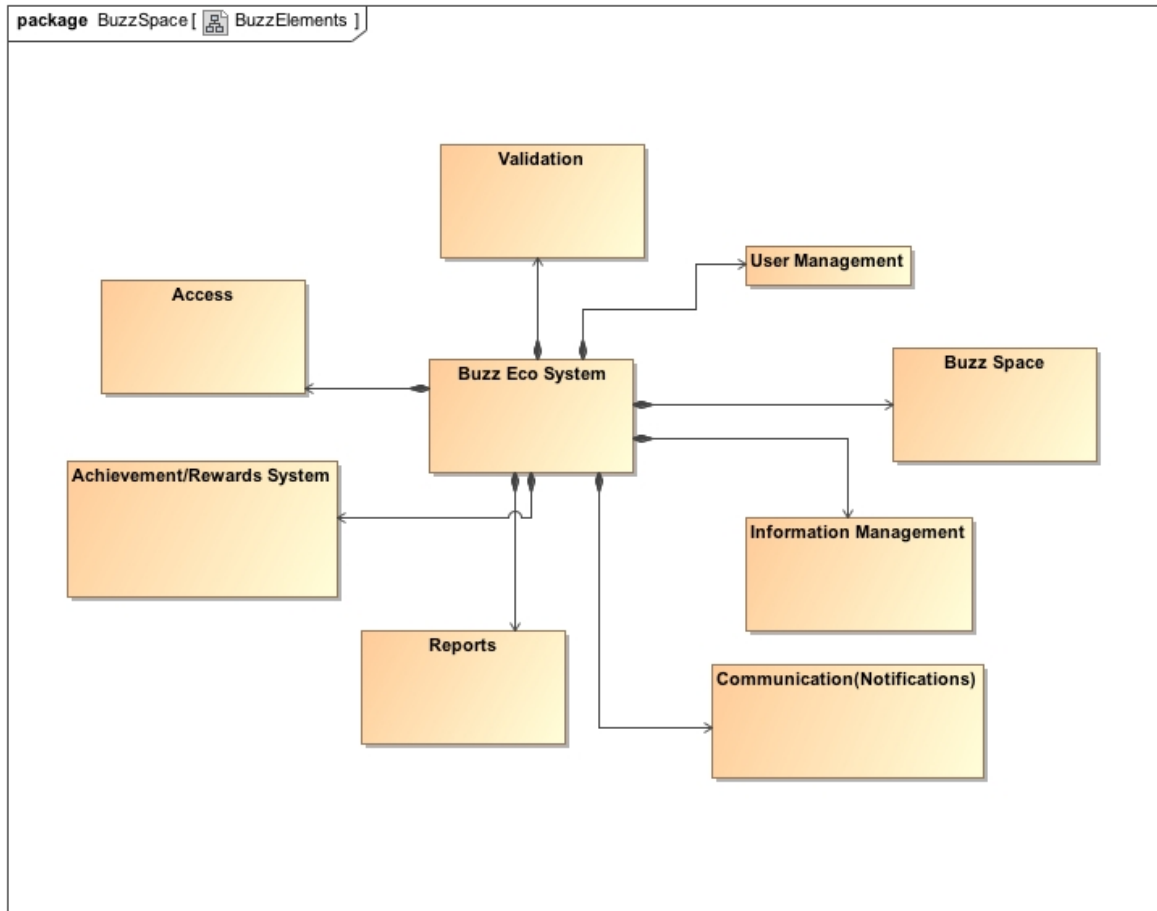
Version: Version 0.2 Alpha For further references see [gitHub](#). February 25, 2015

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For further references see [gitHub](#).

1 Functional requirements



1.1 Introduction

We use this document to give a high level overview of the buzz space 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 how we will achieve a system that is both scalable and pluggable.

1.2 Use case prioritiation

Critical

- Login System.
- Logout System
- Creation of a Buzz thread.
- CRUD OWN posts(Creating,Reading; Updating; Deleting).
- CRUD Other people's posts

Important

- Content Management (By higher level users and Administrators).
- User Restriction based on level.
- Automatic update of user status.
- Semi-Automatic evaluation of posts.
- Gathering and analization of statistical information.
- Social tagging system on threads (and posts).
- Searching and filtering of threads.
- Format code in an easy to view/edit layout.

Nice-To-Have

- Keeping track of who read what (ie. Message Highlighting).
- Semi-Automatic functionality for generating thread summaries.
- Text formatting functionality based on user level.
- Self organization functionality.
- Automatic plagiarism checking system.
- Semi-Automatic detection of netiquette rule violations.
- Have functionality to vote for and evaluate posts.

1.3 Use case/Service contracts

1. CRUD (Creating, reading, updating, deleting posts) OWN posts

- **Pre-conditions**

Student is not registered for a course [Unless he/she is a Teaching Assistant/Tutor/Lecturer/Administrator]

Student must be a high enough level to participate in the thread. [Unless he/she is given permission by an Admin or Lecturer.

- **Post-conditions**

Student is still registered for the course.

Student hasn't been blocked from the thread.

Student level must still be high enough to participate in the thread.

- **Request and Results Data Structure**

2. CRUD (Creating, reading, updating, deleting posts) OTHER People's posts

- **Pre-conditions**

Not an administrator. [Unless he/she is a Teaching Assistant/Tutor/Lecturer]

Not a high enough level. [Unless given permission by the System Administrator]

- **Post-conditions**

Individual must still be an Administrator/Teaching Assistant/Tutor/Lecturer.

Level must still be high enough to allow an individual to CRUD other people's posts.

Individual mustn't be blocked from that thread.

- **Request and Results Data Structure**

3. Keep track of what has been read and highlight all unread messages in a particular thread

- **Pre-conditions**

Not a registered student for the course [Unless individual is an Administrator/Teaching Assistant/Tutor/Lecturer.

- **Post-conditions**

Individual must still be registered for that subject.

If not a registered student, the individual must still be an Administrator/Teaching Assistant/Tutor/Lecturer.

Individual mustn't be blocked from that thread.

- **Request and Results Data Structure**

1.4 Required functionality

1.5 Process specification

1.6 Domain Model