

# UNIVERSITEIT VAN PRETORIA UNIVERSITY OF PRETORIA YUNIBESITHI YA PRETORIA

## DEPARTMENT OF INFORMATION TECHNOLOGY

COS 301 - SOFTWARE ENGINEERING

# COS 301 - Mini Project

Author:	Student number:
Hanrich Potgieter	u12287343
Chris Cloete	u13029721
Jason Richard Evans	u13032608
Lelethu Zazaza	u13028023
William Seloma	u10155865

iiiiiii HEAD

## **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 if 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 student:

Student number:

	Topic of work:
D	eclaration
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.
SI	IGNATURE: DATE:

======

## **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 if 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:
D	eclaration
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.
SI	GNATURES: DATE:

# SOFTWARE REQUIREMENTS SPECIFICATION AND TECHNOLOGY NEUTRAL PROCESS DESIGN

# Buzz Space Discussions/Mini Project

Version: Version 0.1 Alpha February 25, 2015

# Contents

## 1 Introduction

This document specifies a discussion board which aims to add educational benefits to a user. This is an attempt to redesign the idea of a discussion board. We aim to keep it as simple as possible. Also adding functionality that will make it enjoyable to use. It must captivate a user's attention and keep the user involved in the discussions.

## 2 Vision

To provide a new perspective on discussion boards and how they can be used to benefit individuals, it must be educational and benefit the students. As most students using the discussion board we will attempt to recognize code and display it accordingly.

## 3 Background

The project was introduced to us by the University of Pretoria. Vreda Pieterson a lecture at the University has been trying to find a way to get students more involved. Currently the discussion boards are under utilized. They are also looking for a modular system that can be integrated into their current website. This will be a educational benefit to the students.

## 4 Arcitecture requirements

The program will be accessed throught the web. We will follow a responsive design approach. This will make our web application available on both Desktop and mobile devices of various screen sizes. It will also be necessary to be modular. So that the application can integrate into the a existing echo system.

## 4.1 Access channel requirements

Mobile Devices	Students are using devices frequently.
Desktop Computers	This will be our main focus
Restful webserver clients	

## 4.2 Quality requirements

## 4.3 Integration requirements

#### 4.4 Architecture constraints

JavaEE, JPA and JPQL, JSF, HTML, AJAX.

## 5 Functional requirements

## 5.1 Use case prioritiation

#### Critical

- Login System.
- Creation of a Buzz thread.
- Edit options on threads (Reading; Updating; Deleting).

#### **Important**

- Content Management (By higher level users and Administrators).
- User Restriction.
- Automatic update of user status.
- Semi-Automatic evaluation of posts.
- Gathering and analization of statistical information.
- Socail tagging system on threads (and posts).
- Searching and filtering of threads.

#### 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.

## 5.2 Use case/Service contracts

Pre-Conditions Post-Conditions Request and Results Data Structures

- 5.3 Required functionality
- 5.4 Process specification
- 5.5 Domain Model