

# Examiner's Board Meeting

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# 1 Introduction

## 1.1 Purpose

The purpose of this document is to present a detailed description of the Examiners' Board Meeting Web-Application. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for both the stakeholders and the developers of the system and will be proposed to the Faculty of Science for its approval.

## 1.2 Scope

This software system will be a Web-Application System for the Faculty of Science. This system will be designed to maximize the productivity by providing tools to assist in automating the voting system review and publishing process, which would otherwise have to be performed manually. By maximizing the faculty registers work efficiency and production the system will meet the faculty's needs while remaining easy to understand and use. More specifically, this system is designed to allow the faculty to manage and communicate with a group of Administrators, Dean and Lecturers to vote on the website. The software will facilitate voting between Administrators, Dean and Lecturers using the web-application. This is a Java web application that will allow members of the Science Faculty at Wits University to approve the promotion, failure or exclusion status of each student. This application enables each student's marks to be viewed on any device used by the participants of the meeting.

## 1.3 Glossary

1. **Database** - Collection of all the information monitored and used by the system.
2. **User** - A member of faculty that is part of the administration or the mark review committee(The Dean, Head Of School and Lecturers).
3. **Software Requirements Specification** - A document that completely all of the functions of a proposed system and the constraint under which it must operate. For example this document.
4. **Faculty of Science** - A group of university scientific schools.
5. **School** - A department concerned with a specific discipline e.g School Of Mathematics.
6. **Member** - An employee of the faculty of Science who is part of the mark review committee e.g The Dean Of Faculty.
7. **Student** - A registered individual for a specific degree in the faculty.
8. **Vaadin** - An open-source platform for web application development.
9. **MySQL** - an open-source relational database management system.

## 1.4 References

IEEE Std 830-1998, IEEE Recommended Practice for Software Requirements Specifications (Revision of IEEE Std 830-1993), IEEE Computer Society, 1998.

## 1.5 Overview

The forthcoming section i.e. the Overall Description, will give a more broad explanation of how the product is intended to work. It will delve into things like the product functions, design constraints, assumptions etc. The Specific Requirements section is a derivation of the preceding section written specifically for developers hence it uses a lot of technical jargon.

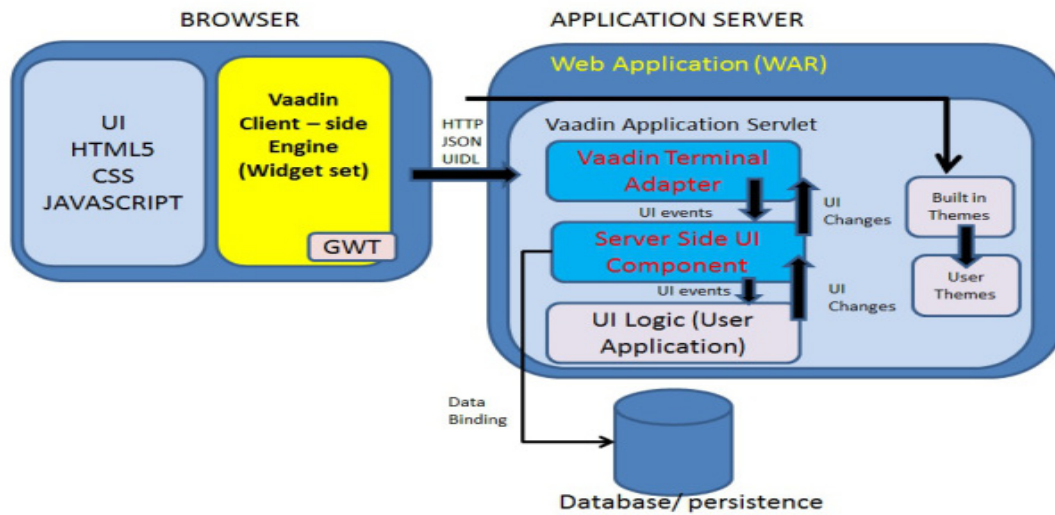


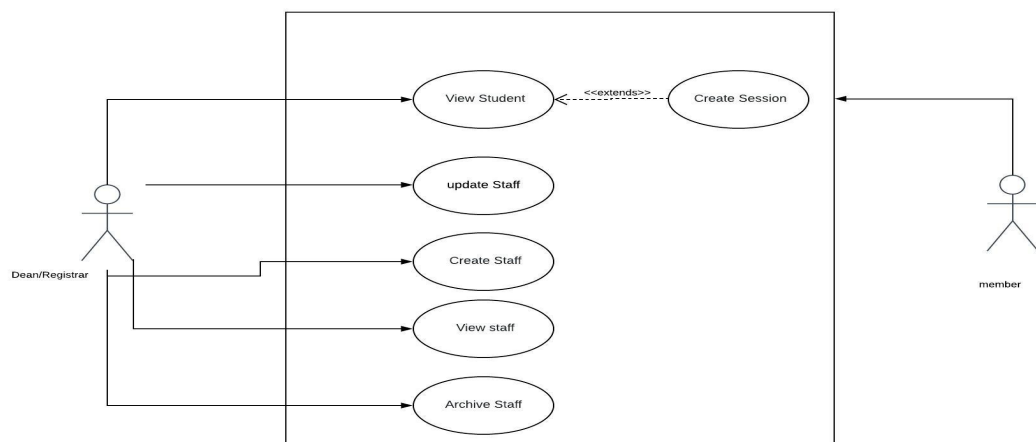
Figure 1: Architecture Of The System

## 2 Overview

### 2.1 Product perspective

#### 2.1.1 System Interfaces

The system has



Use Case Diagram :Examiner's Board

case.jpeg

### 2.1.2 Hardware Interfaces

### 2.1.3 User Interfaces

The first screenshot shows a window titled 'Examiner's Board' with a 'logout' button. Below it is a table titled 'List of students' with the following data:

Student ID	View
1385451	View
1383251	View
1235451	View
134331	View

The second screenshot shows a window titled 'Examiner's Board' with a 'logout' button. Below it is a table with the following data:

Course Code	Mark	Outcome	Vote
Math2001	48	fail	Vote
Coms1290	50	pass	Vote
Coms2345	56	pass	Vote
Coms2345	46	fail	Vote

The third screenshot shows a window titled 'Examiner's Board' with a 'logout' button. Below it is a table titled 'Voting Session' with the following data:

Yes	No	Outcome %
9	7	56.26

Below the table is an 'Update Status' button.

interface.png

### 2.1.4 Software Interfaces

### 2.1.5 Communications Interfaces

### 2.1.6 Memory Constraints

### 2.1.7 Operations

### 2.1.8 Site Adaptation Requirements

## 2.2 Product Functions

- Display a list of all registered students in the Science faculty.
- View all the courses in which each student is enrolled for, marks, class attendance, progress etc.

Official Grades								
Program	Program Description	Course Offering	Course Description	Mark	Symbol	Grade	Units	Exam Type
SB000	Bachelor of Science	INFO1000	Information Systems IA	50	D	PASS	18.00	
SB000	Bachelor of Science	MATH2019	Linear Algebra II	68	C	PASS	8.00	
SB000	Bachelor of Science	MATH2015	Abstract Mathematics II	52	D	PASS	8.00	
SB000	Bachelor of Science	COMS2014	Computer Networks II	46	F	PMIN	12.00	
SB000	Bachelor of Science	MATH2021	Multivariable Calculus II			FAIL		Supplementary Exam
SB000	Bachelor of Science	COMS2002	Database Fundamentals II	54	D	PASS	12.00	
SB000	Bachelor of Science	COMS2015	Analysis of Algorithms II	56	D	PASS	12.00	
SB000	Bachelor of Science	COMS2001	Operating Systems	52	D	PASS	12.00	
SB000	Bachelor of Science	INFO2000	Information Systems IIA	57	D	PASS	24.00	
SB000	Bachelor of Science	INFO2001	Information Systems IIB	70	B	PASS	24.00	
SB000	Bachelor of Science	STAT2012	Introduction to Mathematical Statistics II	50	D	PASS	8.00	
SB000	Bachelor of Science	MATH2022	Introductory Analysis II	35	F	FAIL		

Exam-

ple Of A Student Record

- Create a voting session for each individual course.
- Enable members to vote on progress outcome of each course.
- Count number of votes and decide on outcome.
- Update the student's status together with the mark.

### **2.3 User characteristics**

The system will require basic computer skills and the use of a web browser. Registrar/Dean - Will be facilitating the mark review process Members- These include lecturers , school representatives.

### **2.4 Constraints**

The application will be web based and written in Java, JavaScript, HTML and CSS. Anyone willing to further develop it will have to know these technologies. And since it is web based, it will require internet access. The apps should be restricted to work on the Wits proxy only. Furthermore, the system should only allow members of the Science Faculty to access it.

### **2.5 Assumptions and dependencies**

The system assumes that the user has basic web-browser knowledge. The software is meant to be run locally on the clients designated hardware in which the design of the system is based. A working Java Run-time Environment version 1.8 and above is required.