# 1.0 Introduction

1.1 Purpose

The purpose of this document is to present a detailed description of the Web Publishing System. 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.

1.2 Scope of the Project

The software system will be a Student Self Monitoring System intended for the use by students of a college. It is designed so as to help students keep track of their academic activities in college. We include attendance tracking, tasks tracking, notes feature etc for increasing the productivity of students. The attendence tracking mechanism is an extremely useful tool. The notes features allow students to save notes for each period of a day. The feature also supports markdown text which allows the student to go beyond plaintext for their notes.

It is also intended to to minimize the difficulties of communication between students and college authorites which would otherwise have to be performed manually by phone calls or class representatives. More specifically the system allows teachers to notify the students about upcoming tasks/events increasing the efficiency of communication.

The system also contains a relational database containing Students, Teacher, Departments, Classes, Subjects, Notes, Events.

1.3 Glossary

1.4 References

IEEE. IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements Specifications. IEEE Computer Society, 1998.

1.5. Overview of Document

The next chapter, the Overall Description section, of this document gives an overview of the functionality of the product. It describes the informal requirements and is used to establish a context for the technical requirements specification in the next chapter.

The third chapter, Requirements Specification section, of this document is written primarily for the developers and describes in technical terms the details of the functionality of the product.

Both sections of the document describe the same software product in its entirety, but are intended for different audiences and thus use different language.

# 2.0 Overall Description

**2.1 System Environment**

The Student Self Monitoring System has two main actors, the user (Student) and the admin (Teachers/other authorities). The role of the admin is to provide the system with sufficient data about each classes, subjects, departments and teachers involved. The admin has near complete access to the database. It is also the role of the admin(teacher) to add upcoming events/tasks to the software system.

**2.2 Functional Requirements Specification**

This section outlines the use cases for each of the actors seperately; the user and the admin.

2.2.1 Admin Use Case

2.2.1.1 The admin must be able to add/remove data to/from the following entities :

* + Departments
  + Teachers
  + Subjects
  + Classes

2.2.1.2 The admin must also be able to specify the relation between teacher, subject and classes.

2.2.1.2 The admin must be able to add new events to the upcoming event list for the users to view

2.2.2 User Use Case

2.2.2.1 Login – User must be able to login using Google Accounts

2.2.2.2 User must be allowed to pick a class of his choice

2.2.2.3 Attendance Tracking

* + The user must be able to view the current attendance
  + The user must be update the attendace on a daily basis

2.2.2.4 Notes

* User must be able to save notes for every period in a day
* Markdown text should be supported
* Images should be supported
* User must be able to view all the notes saved as of yet

2.2.2.5 Upcoming Events

* User must be able to view upcoming events that are added by admins
* User must have a calender view of upcoming events

**2.3 Non-Functional Requirements Description**

2.3.1 User Interface

2.3.1.1 The general UI must be responsive and also support mobile viewing

2.3.1.2 The UI must be uniform on all browsers