**REQUIREMENT SPECIFICATION**

1. **INTRODUCTION**

**1.1 PURPOSE**

The purpose of this document is to build a system to manage student’s details and the students should be able to access the timetable, attendance and to ease the course registration.

**1.2 INTENDED AUDIENCE AND READING SUGGESTIONS**

This project is a prototype for the Student management system and it is restricted within the college students and admin. This has been implemented under the guidance of college professors. This project is useful for the student and as well as to the education institution.

**1.3 PROJECT SCOPE**

The purpose of the Student management system is to ease managing and maintaining the students record. The students can view the exam timetable, course registration can be done, fee payment, the marks can be viewed and student personal details can be updated. The admin can view all the student details and add new student record, teacher record, course and timetable. The admin should be able to update and delete the students record. We will have a database server for storing the student’s information.

1. **OVERALL DESCRIPTION**

**2.1 PRODUCT PERSPECTIVE**

A distributed student database system stores the following information.

* **Student**  
  It includes the personal information of the student and academic information like marks, timetable and fee payment.
* **Teacher:**  
  It includes the educational information of the teacher and the personal information
* **Course**:

It includes all the course information which can be registered by the students

* 1. **USER CLASS and CHARACTERISTICS**
* **STUDENT FUNCTIONS**• Should be able to login with the department no and password  
  • Get to view the marks and timetable  
  • Make fee payment  
  • Do course registration  
  •Update personal details
* **ADMINISTRATIVE**• Add/Delete a Student  
  • Add a new Teacher  
  • Update all the record  
  • Add Timetable and marks  
  • View all the record

**2.3 OPERATING ENVIRONMENT**

Operating environment for the student management system is as listed below

* client/server system
* Operating system: Windows.
* database: JDBC
* platform: Java

**3. EXTERNAL INTERFACE REQUIREMENTS**

**3.1 USER INTERFACES**

* Front-end software: Java
* Back-end software: Java DB

**3.2 HARDWARE INTERFACES**

* Windows
* A browser which supports CGI, HTML & JavaScript

**3.3 SOFTWARE INTERFACES**

Following are the software used for the Student management application.

|  |  |
| --- | --- |
| **Software used** | **Description** |
| Operating system | We have chosen Windows operating system for its best support and user-friendliness. |
| Database | To save the student records, teacher records. |
| NetBeans | To implement the project we have chosen Java language for its more interactive support. |

**4. NONFUNCTIONAL REQUIREMENTS**

* **AVAILABILITY:** The student management should be accessed anytime
* **CORRECTNESS:** All the operation like add, delete, update should work
* **MAINTAINABILITY:** The administrators should maintain correct record of students/teachers.
* **USABILITY:** The student should find it easy to access student management system.