A project reports on

Student information management system

Submitted by: Dipankar BARUA

M.sc software engineering

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Project Guided By: Thomas Broussard

PREFACE

This project **“Student Information Management System”** provides us a simple interface for maintenance of student information. It can be used by educational institutes or colleges to maintain the records of students easily. Achieving this objective is difficult using a manual system as the information is scattered, can be redundant and collecting relevant information may be very time consuming. All these problems are solved using this project.

Throughout the project the focus has been on presenting information in an easy and intelligible manner. The project is very useful for those who want to know about Student Information Management Systems .

**ACKNOWLEDGEMENT**

I take this opportunity to express my sincere gratitude to all those who helped me in various capacities in undertaking this project and devising the report.

I am privileged to express my senses of gratitude to my respected teacher **Mr. Thomas Boussard** whose unparalleled knowledge and an immense support in completing the project.

I take this opportunity and also to thank my friend Rohit Kumar Basnet for his co- operation.

Dipankar Barua

SYNOPSIS

**Abstract:**

Student Information Management System can be used by education institutes to maintain the records of students easily. Achieving this objective is difficult using a manual system as the information is scattered, can be redundant and collecting relevant information may be very time consuming. All these problems are solved using this project.

**Name of the Project**: Student Information Management System

**Objectives**: students Maintenance of student records, Searching student records

**Users Views**: Administrator

**Platform Operating Systems**: Microsoft Windows

**Technologies Used**:

Front End: Java

RDBMS (Back end): Apache Derby

**Software Requirements**: Java SE 8

APACHE HTTP Server

Eclipse Neon 4.6

**Hardware Requirements**: Intel Pentium IV processor or equivalent or higher

512 MB Ram or Higher

50 GB HDD or Higher Network Connectivity

**SOFTWARE REQUIRMENT SPECIFICATION**

**1. Introduction**

**1.1 Purpose:**

The objective of **Student information System** is to allow the administrator of any organization to edit and find out the personal details of a student and allows the student to keep up to date his profile. It’ll also facilitate keeping all the records of students, such as their id, name, mailing address, and phone number. So all the information about an student will be available in a few seconds.

Overall, it’ll make Student Information Management an easier job for the administrator and the student of any organization. The main purpose of this SRS document is to illustrate the requirements of the project **Student information System** and is intended to help any organization to maintain and manage its student’s personal data.

**1.2 Scope:**

Without a **Student information System**, managing and maintaining the details of the student is a tedious job for any organization.  Student Information system will store all the details of the students including their background information, educational qualifications, personal details and all the information related to their resume.

**Login module**: Login module will help in authentication of user accounts. Users who have valid login id and password can only login into their respective accounts.

**Search module**: Suppose there are hundreds of students and from this we have to search a particular student and we know the name of the student .In manual system it is a tedious task though we know the name of the student, but using this module we can easily search the student by specifying the name of the student in the search criteria. Thus this module will help the administrator in searching the student with various criteria easily.

**Registration Module and Account Management**: This module will help the student get registered from anywhere if Internet is present. This module will really simplify the task of on paper registration. Also after successful registration the user can update information and change their password as and when required.

**User Management**: This module will help the administrator in deleting user account and updating user information as required.

**Purpose of project is to maintain details of the students such as storing information about:**

Student id:

Student First name:

Student mailing address:

Contact no:

1.4 **Technologies:**

2. JAVA

3.Apache derby

**OVERALL DESCRIPTION**

**2.1 Product Perspective:**

The website **Student Information System** is aimed towards recording a considerable number of student records for managing records of students..

**Student Information System** is intended to be a stand-alone product and should not depend on the availability of other application. The system will also have an administrator who has full-fledged rights with regards to performing all actions related to control and management of the application.

**2.2 Product Functions:**

There is only one user who will be using this product: Administrator who can view and edit the details of any students.

The features that are available to the Administrator are:

An Administrator can login into the system and perform any of the available operations.

Can enable/disable student.

Can edit student information to the database.

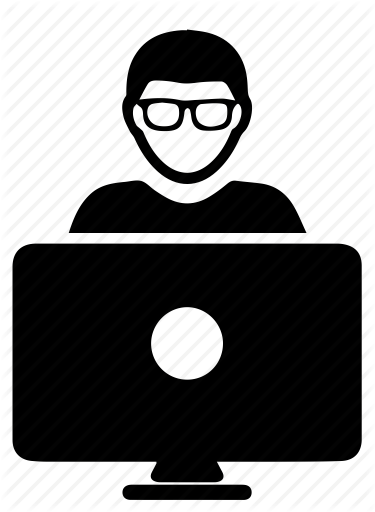
Can make search for a specific student. Can access all the details of the student.

**2.3 User Classes and Characteristics:**

There is only user for the product.

The users include: Administrator

Can view student information



Can delete student information

Can search specific student information

Can modify student information

Can insert student information

**Administrator:** Responsible for managing student details. **Use-case:** Login into the website **Goal in context:** Gain access to the website

**Brief Description:** This use case is used when the administrator wants to access the website to enable/disable/update the personal details of the student.

**Preconditions:** The Administrator must be logged onto the website in order for this use case to begin.

**Basic Flow:**

The Website prompts the administrator for the user name and password. The Administrator enters the user name and password.

The Website verifies the password and sets the user’s authorization. The Administrator is given access to the Website to perform his tasks.

**Alternative Flow:**

The administrator enters invalid username and password then he will not be allowed to enter the website**.**

**Post conditions:** The website state is unchanged by this use case.

LOGIN INTO APPLOCATION

LOGIN SELCTED

REDIRECT TO MAIN MENU

**Use Case:** Display students

**Goal in context:** View the details of a student

**Brief Description:** This use case is used when the administrator wants to view the personal details of the students already existing in the database on the screen.

**Preconditions:**

The Administrator must be logged into the system in order for this use case to begin

The details of the student must pre-exist in the database the student id must be entered correctly.

**Basic Flow:**

The Administrator logs onto the System.  The Administrator search the student from following keys: -

1 Student id

2.First name

3.last name

4.status

The System prompts for the student detail from one of the above keys. The student details are displayed on the screen.

**Alternative Flow:**

Student Not Found

If in the **Display a student** sub-flows, a student with the specified id number does not exist, the system displays an error message. The Administrator can then enter a different id number or cancel the operation, at which point the use case ends.

**Post conditions:**

The student details are displayed on the screen already existing in the system. The state of the system remains unchanged**.**

Login application

Database update

Edit/view

System architecture design:

Student id

Student email id

Student last name

Student first name

Manages

Administration

Decision tree.

Home

Request for login

Admin login

If Login failed

Enter student details

Edit student details

Search student details

View student details

Administration

Home

Student details

Login

**Apache**

The Apache HTTP Server is a web server software notable for playing a key role in the initial growth of the World Wide Web. In 2009 it became the first web server software to surpass the 100 million web site milestones. Apache is developed and maintained by an open community of developers under the auspices of the Apache Software Foundation. Since April 1996 Apache has been the most popular HTTP server software in use. As of November 2010 Apache served over 59.36% of all websites and over 66.56% of the first one million busiest websites.

SNAPSHOTS

