**A Project Report On**

**“Student Management System”**

*Submitted by*

**Mistry Mohit Arvindbhai**

*Under the Guidance of*

**Prof. Jinal Tailor**

*In fulfilment for the award of the degree*

*Of*

**Master of Computer Applications**

**(2nd semester)**

In

**Computer Science Department**

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**S.S. Agrawal Institute of Computer Science**

Opp vidya kunj School, Nr Devina Park Soc, Gandevi Rd, Navsari

Affiliated Under

**Gujarat Technological University, Ahmedabad**

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**S.S. Agrawal Institute of Computer Science**

**Master of Computer Application Department**

**2022**

**CERTIFICATE**

This is to certify that the project entitled **Student Management System** has been carried out by **Prajapati Haresh** (218060694027), **Thakur Prabhat** (218060694026) and

**Khalifa Mahmaduvesh** (218060694029) under my guidance in fulfilment of the degree of Master of Computer Applications (MCA 2nd Semester) of Gujarat Technological University, Ahmedabad during the academic year 2022.

**Date:**

**Guide Name& Signature: Prof. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Examiners’ Signature:**

1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2**.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

3**.**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Prof Jinal Tailor**

**Head of Department**

**SSAIMT, Navsari**

**Preface**

Knowledge is power. But Power on its own cannot be a key to success. It needs to be harnessed and channelized properly according to the needs and acquirement of the circumstances. In MCA we are supposed to work on a project, which gives us a required exposure to the professional field, which we will be embracing as soon as we move from our student phase to the professional phase.

Today we have many tools at our disposal, so how to use them judiciously according to the requirements of the clients as well as to convince our client to venture out into Uncharted-Red territory and convince them to adapt to emerging technology is the responsibility of the developer.

A Master of Computer Application (MCA) is a two-year full-time course. It covers various topics associated with the area of computer science. We did a project “Student Management System”. An effort has been to exhaustively deal with every part of the systems developed and at the appropriate position, so That a user can easily generate the reports.

**Acknowledgement**

**Haresh Prajapati, Mahmaduvesh Khalifa and Prabhat Thakur** MCA (Master of Computer Application) Semester – 2 at S.S Agrawal Institute of Management and Technology, Navsari have completed this project. We would like to convey our heartfelt gratitude to all those people from whom we have got considerable support and encouragement during this project.

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We would like to extend our gratitude to **Prof. Hemina Bhavsar (Project Guide)** for her valuable guidance and support. Her suggestions and motivation encouraged us throughout the project.

And finally, we would also like to acknowledge the faculty of the Computer Science department for their constant support during the period with them, mounding our future to survive in this highly competitive world.

**Haresh Prajapati**

**Mahmaduvesh Khalifa**

**Prabhat Thakur.**

**Learning during Project Work**

It was a wonderful learning experience for me while working on this project. This project took me through the various phases of project development and gave me real insight into the project. The joy of working and the thrill involved while tackling the various problems and challenges gave me a feel of the developer’s industry.

There are numerous things that we have learned, while working on the project in the IT industry. The project has helped us in perfecting the concepts which we have learned in the past years.

The project gave us a better understanding that there is so much more to learn from the surrounding environments of the colleagues and the power of the technological languages.

The project helped us in organizing the time effectively, and working with teammates and generating substantial output of the efforts. It has prepared us for analyzing and programming for industrial problems and to work on large projects in the future.

Even though we know so much about the technology, still there is so much more to learn from it. The most important thing that we have learned is to never stop learning.

**Abstract**

This project report on “Student Management System”. During the developing of this project, we explore new ideas and functionality. In this project we have basically 3 modules. These three modules include Admin, Faculty and Student.

The admin module profile, add faculty, add students, add department, add course and notification. The faculty module profile, materials, attendance, time-table and notification. The student module profile, download materials, view attendance, request for any changes and notification.

This document shows details and various diagrams like use case diagram, class diagram, interaction diagram, activity diagram and also add the data dictionary and screen shorts are define in this document.

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1. Introduction

**1.1 Existing System**

* All student having trouble to find a study various type of topics. They have to suffering lots of websites to gathering information about their study needs. So, we create better place to help them know they can find all kind of topics of their study material on one place and they don’t have to suffer a various website.
* The student management system is an environment where all the process of the student in the institution is managed. It is done through the automated computerized method. Conventionally this system is done using papers, files, and binders.
* This system saves the time of the student and of the administrator. It includes processes like registration of the student’s details, assigning the department based on their course, and maintenance of the record. This system reduces the cost and workforce required for this job. As the system is online the information is globally present to everyone.
* This makes the system easy to handle and feasible for finding the omission with updating at the same time. As for the existing system, they use to maintain their record manually which makes it vulnerable to security. If filed a query to search or update in a manual system, it will take a lot of time to process the query and make a report which is a tedious job.
* As the system used in the institute is outdated as it requires paper, files, and binders, which will require the human workforce to maintain them. To get registered in the institute, a student in this system should come to the university. Get the forms from the counter while standing in the queue which consumes a lot of the student’s time as well as of the management team.
* As the number of the student increases in the institute manually managing the strength becomes a hectic job for the administrator. This computerized system stores all the data in the database which makes it easy to fetch and update whenever needed

**1.2 Needs for the New System**

* In this systems student can find all type of materials, show study and also interact between faculties.

**1.3 Objective of the New System**

* This system is developed for material.
* All users have access right as per their role.
* The main objective is providing material to student’s access easily.
* Admin can add faculty, student, department and course.
* Faculty can upload the materials, attendance, and Time table and so on…
* Student can download materials, view attendance & time table, etc…
* Create a database for easy to retrieval, storage and maintenance of student record.

**1.4 Problem Definition**

* **Material not available online: -**

All material is not available online in any website.

* **Student cannot fetch material: -**

Material is not available then student cannot find the material. Student have problem to read, write.

* **Uploading problem by faculty: -**

Faculty cannot upload or provide the material to student. Any platform not available. Also, faculty add the wrong study materials upload file.

* **File corrupt problem: -**

Faculty uploads the material PDF at any application. Then file can corrupt also.

**1.5 Core Components**

**1.5.1 Scope**

* The proposed software product is the online education system.
* The system main purpose of this system to material uploads by faculty and easy to access students.
* Managing all records of Admin, Faculty

Student can follow the faculties.

**1.5.2 Modules**

* There are 3 panel of our system as below: -

1. Admin
2. Faculty
3. Student

Details Functionality of the above listed modules

1. **Admin**

* Admin can Login.
* Admin can view its profile and change its password.
* Admin can Insert Update & Delete Faculty and Student.
* Adding the department based on their course
* Also, admin can update department and delete.
* Admin can add the notification.

1. **Faculty**

* Faculty can Login using the email id and password.
* Faculty can view its profile and change password.
* The most important role of the faculty to add the materials. Faculty can update and delete the materials.
* Faculty gives a permission to block the student for the any reason.
* Faculty add student’s attendance.
* Faculty also add the time table.
* Faculty view and add the notification.

1. **Student**

* Student can Login using the email id and password.
* Student can view its profile and change password.
* Student can view materials and download.

Student can also view its Attendance, Time table and Notification.

**1.6 Project Profile**

**Project Profile:**

|  |  |
| --- | --- |
| Project Name: | **Student Management System** |
| Developers Name: | Prajapati Haresh  Khalifa Mahmaduvesh  Thakur Prabhat |
| Team strength: | 3 |
| Front end: | React JS |
| Frame Back end Work: | Laravel(DB:MYSQL) |
| Operating System: | Windows 10 and window 11 |
| Project Duration: | 4 months |
| Submitted to: | S.S Agrawal Institute of Management and Technology |
| Internal guide: | Prof. Hemina Bhavsar |
| Software Used: | Visual studio code, Xampp or Wampp, MS Word, Edrawmax, Paint. |
| Head of Departments: | Prof. Jinal Tailor |

**1.7 Advantages and Limitations of the Proposed System**

* Advantages of This System as below: -
* It is very efficient way to provide material online.
* Download the report file like docx, ppt and pdf.
* Possible for some time cutting in the Educational Process.
* Free and Easy to download.
* Time saving for students.
* Online study materials to be great alternative. Students have the chance to study in their own time especially for free.
* Due to its convenience and flexibility, material is available at any time, and anywhere.
* Material available 24\*7.
* Student can’t depend on anyone for material.
* Provide material online is also a cost effective.
* Limitations of this systems: -
  + Network problem can affect the system and student material.
  + Internet problem.
  + Also, Faculty block the student for some reason. It is not accessing the materials.