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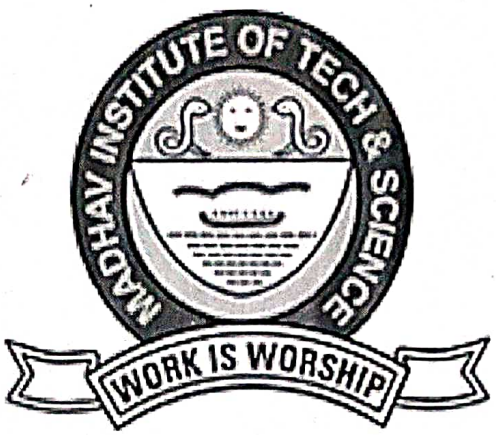

Project Report

on

DIGITAL EDUCATION

Submitted By:

AMAN DEEP NAMDEV

0901CS191015

ADARSH TRIPATHI

0901CS191007

Faculty Mentor:

MIR SHAHNAWAZ AHMAD

ASSISTANT PROF., CSE DEPARTMENT

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
GWALIOR - 474005 (MP) est. 1957

MAY-JUNE 2022

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Project Report

on

Digital Education

A project report submitted in partial fulfilment of the requirement for the degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

Submitted by:

AMAN DEEP NAMDEV

0901CS191015

ADARSH TRIPATHI

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Faculty Mentor:

MIR SHAHNAWAZ AHMAD, ASSISTANT PROF., CSE DEPARTMENT

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CERTIFICATE

This is certified that **AMAN DEEP NAMDEV (0901CS191015)** has submitted the project report **DIGITAL EDUCATION** under the mentorship of **MIR SHAHNAWAZ AHMAD,ASSISTANT PROF.,CSE DEPARTMENT** in partial fulfilment of the requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.

06/05/22

MIR SHAHNAWAZ AHMAD
ASSISTANT PROF.,
Computer Science and Engineering

06/05/22

Dr. Manish Dixit
Professor and Head
Computer Science and Engineering

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

CERTIFICATE

This is certified that **ADARSH TRIPATHI (0901CS191007)** has submitted the project report **DIGITAL EDUCATION** under the mentorship of **MIR SHAHNAWAZ AHMAD, ASSISTANT PROF.,CSE DEPARTMENT** in partial fulfilment of the requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.

06/05/22

MIR SHAHNAWAZ AHMAD
ASSISTANT PROF.,
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06/05/22

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Professor and Head
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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

DECLARATION

I hereby declare that the work being presented in this project report, for the partial fulfilment of requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **MIR SHAHNAWAZ AHMAD ,ASSISTANT PROF.,CSE DEPARTMENT** I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.

AMAN DEEP NAMDEV

0901CS191015

(2019-2023)

ADARSH TRIPATHI

0901CS191007

(2019-2023)

Computer Science and Engineering

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The full semester project has proved to be pivotal to my career. I am thankful to my institute, **Madhav Institute of Technology and Science** to allow me to continue my disciplinary/interdisciplinary project as a curriculum requirement, under the provisions of the Flexible Curriculum Scheme (based on the AICTE Model Curriculum 2018), approved by the Academic Council of the institute. I extend my gratitude to the Director of the institute, **Dr. R. K. Pandit** and Dean Academics, **Dr. Manjaree Pandit** for this.

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I am sincerely thankful to my faculty mentors. I am grateful to the guidance of **MIR SHAHNAWAZ AHMAD ,ASSISTANT PROF.,CSE DEPARTMENT**, for his continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.

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Computer Science and Engineering

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ABSTRACT

The Digital education is a web-based system which will use as a platform for interaction between student, teachers and parents. While the main objective of this project is to computerize the paperwork in the system and automate the work. The computerization is done so that the storage of all the details regarding students and teachers will be stored in the system which makes system centralized and the chance of duplication of any data is minimised. While by doing automation to the system will reduce the time for storing any data in the system. In the present system, it is uneasy to store the information related to students, faculty and parents on the paper. As there is too many information when someone tries to access any of stored information it becomes a difficult and time-consuming task. While these days parents and faculty have more work than just take care of students it is difficult for both parents and faculty to monitor them. Whereas the storing and retrieving an information is a difficult task, it also requires much amount of unnecessary worker to do the task. The Digital education will manage all the work in any school in particular order so that the time requirement and complexity of the system will be reduced, at first it will focus on student related information. As a student gets the admission in the school system will start managing the details regarding the students. It will manage the fee details, and if the full payment has not done, then it will notify about the fee to a staff of the school. This will then display the date of the test and when the test completes it will display the results of the students. While the parents can use it to monitor their children's performance, also they can contact with the teachers.The person in this module has control over the entire system as he/she can add, delete anyone from the system. The admin can view the details of another person and can edit any details. The users from another module will send the request to admin for any change. From this module, the students can view the details of the assignment given to them, test date, results, time-table. The parents can monitor the performance of their children, can contact with the teachers, view the due fee amount. This project contains the information of a teacher.

Chapter 1 - INTRODUCTION -

1.1 Project Overview -

The Digital education is a web-based system which will use as a platform for interaction between student and teachers. While the main objective of this project is to computerize the paperwork in the system and automate the work. The computerization is done so that the storage of all the details regarding students and teachers will be stored in the system which makes system centralized and the chance of duplication of any data is minimised. While by doing automation to the system will reduce the time for storing any data in the system.

1.2 Objective and Scope – This package is basically developed for the authorities of the schools to make their tasks easier and we can say this automate their tasks like maintaining students personal detail. This helps the administrative and accounts department in maintaining the students personal, timetable and fees related details.

1.3 Project features – Scalable, easy accessible , cheap , easy to manage, helpful in studies.

1.4 Feasibility -

1.4.1 Technical feasibility - Easy accessible services are used by which we can expand it for future needs.

1.4.2 Economic Feasibility – This system will be easy to use for students and schools in **INDIA.**

1.4.3 Operational feasibility – This system has an easy to use for students and school administration by easy interface and simple terms.

1.5 System requirement- Maintain records, manage student attendance, track student performance, schedule timetable, effortless administration.

Chapter 2 – TECHNOLOGY USED AND SYSTEMS REQUIREMENT

2.1 Technology Used in Django School Management System Project

1. We have developed this project using the below technology
2. HTML : Page layout has been designed in HTML

3. CSS : CSS has been used for all the desigining part
4. JavaScript : All the validation task and animations has been developed by JavaScript
5. Python : All the business logic has been implemented in Python
6. SQLite : SQLite database has been used as database for the project which is default database in Django.
7. Django : Project has been developed over the Django Framework of Python

2.2 Supported Operating System

1. We can configure this project on following operating system.
2. Windows : This project can easily be configured on windows operating system. For running this project on Windows system, you will have to install
3. Python 3.7, PIP, Django 3.0.
4. Linux : We can run this project also on all versions of Linux operating systemMac : We can also easily configured this project on Mac operating system.

Chapter 3 - PRELIMINARY DESIGN –

3.1- Water fall model-

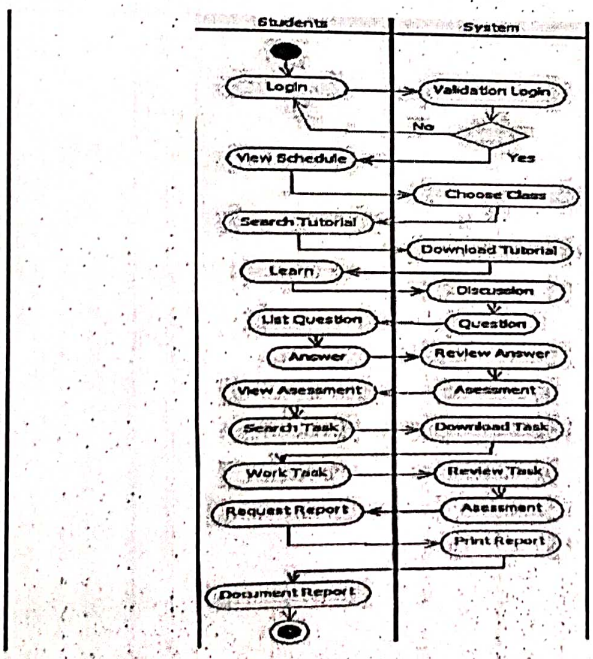

Fig. 3.1 Water fall model

3.2- UML Diagram -

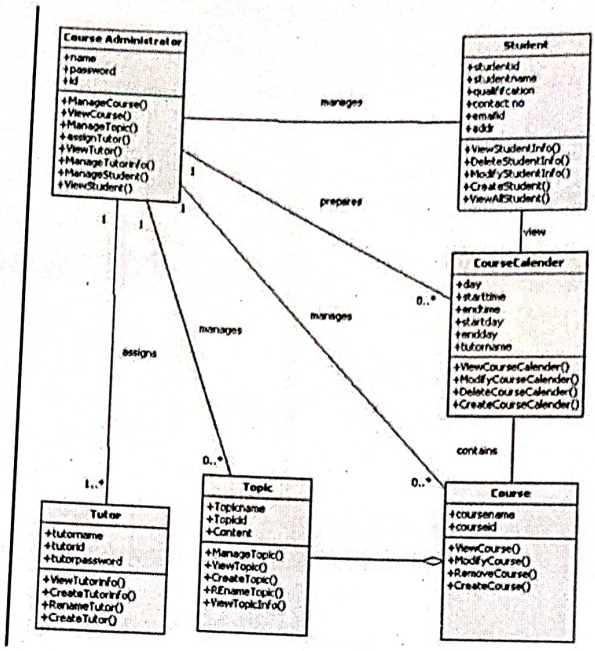

Fig. 3.2 UML dig.

3.3- ER Diagram -

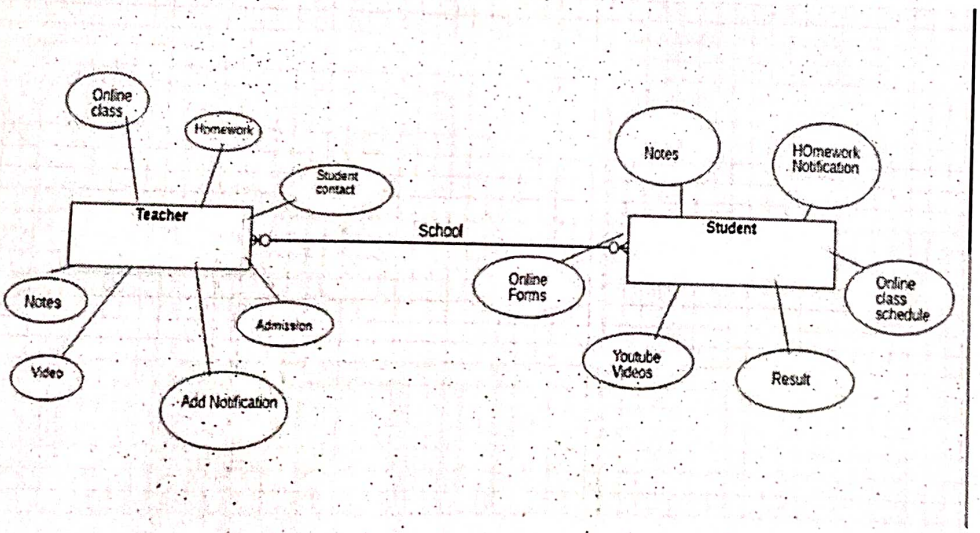

Fig. 3.3 ER dig.

Entities – Teacher, Student

Attributes – Notes, Add notification,homework , online forms, results, you tube videos, admission

Relationship – School

3.4- Project Screen shots –

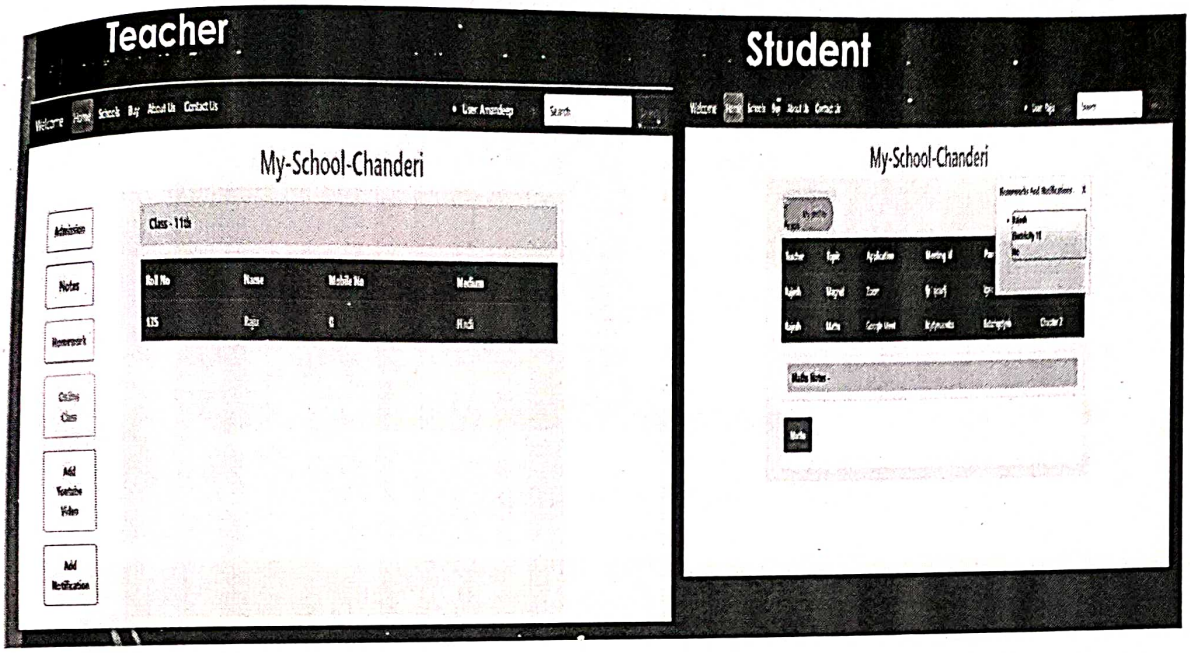

Fig. 3.4 Teacher and student interface

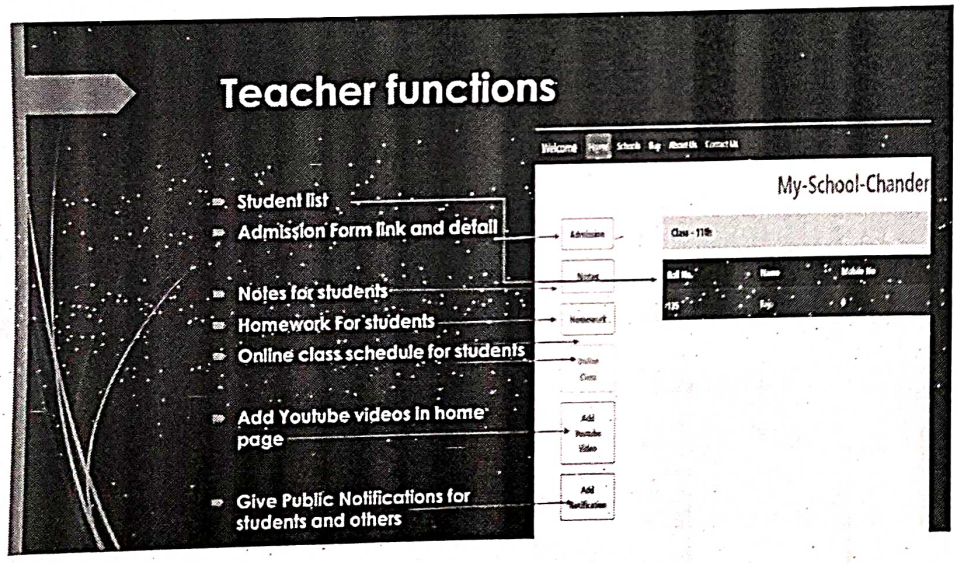

Fig. 3.5 Teacher functions interface

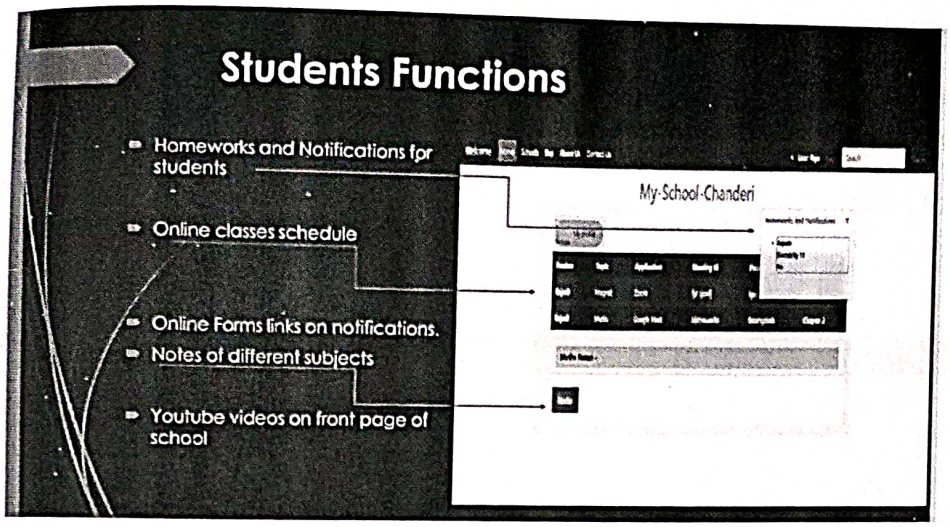

Fig. 3.6 Student functions interface

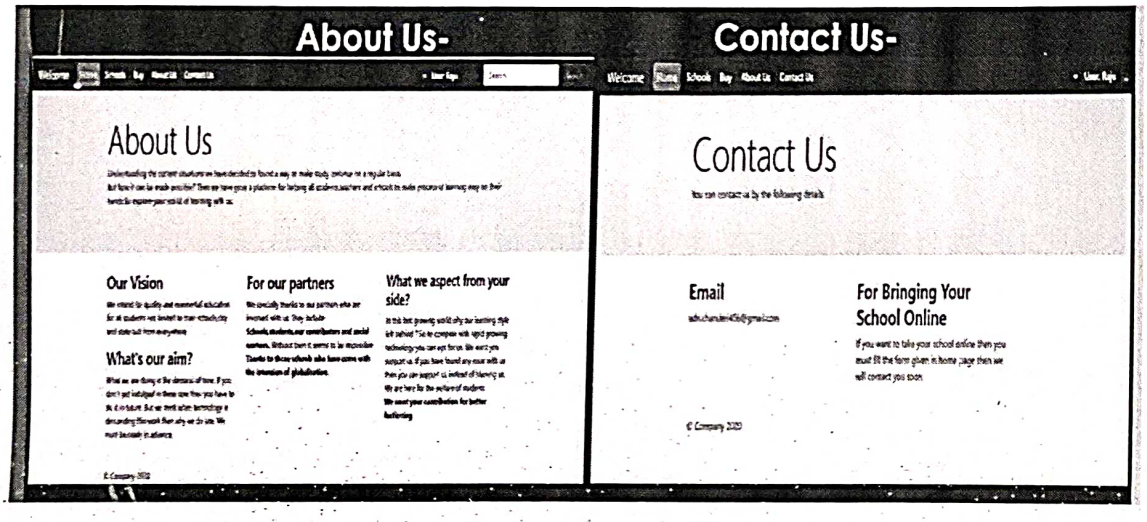

Fig. 3.7 About us and contact us interface

Chapter 4 Final Analysis and Design –

This app is meant to be used by school manager to manage their school records: student data staff results and finances. Solely, it's expected to be used on a single machine or online for managers only.

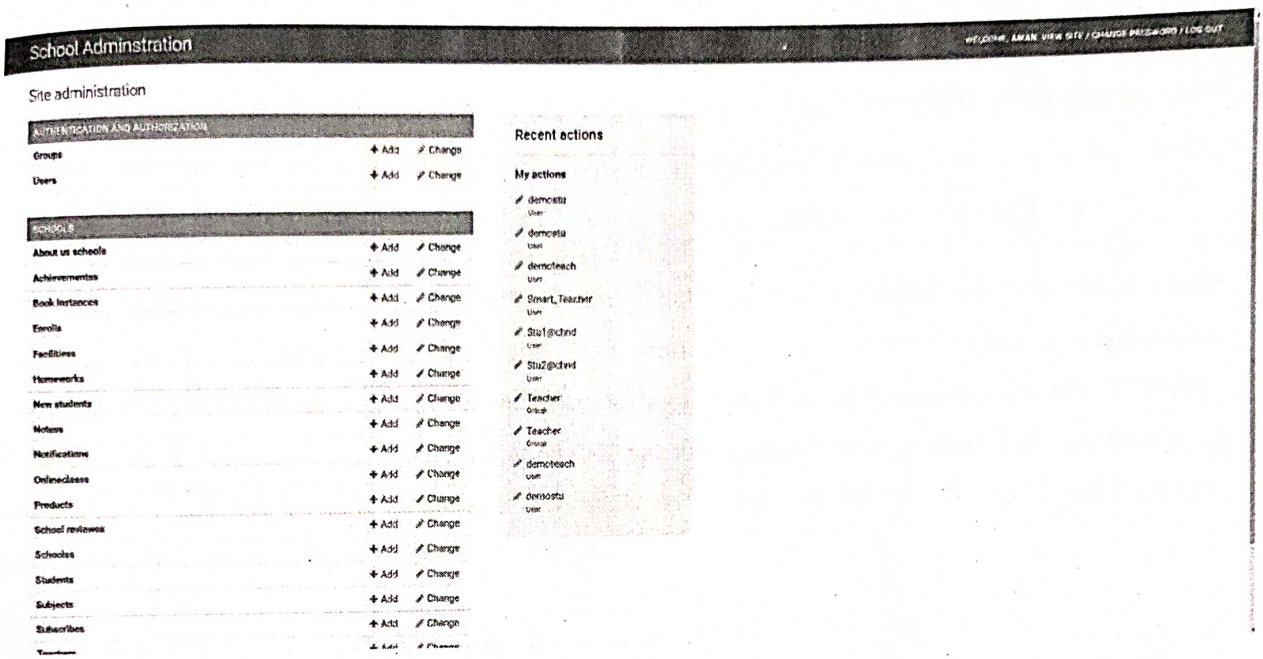

Fig. 4.1

A **Django School Management System** runs Django Framework in back-end and **HTML, CSS** in front-end. It has a interactive dashboard built in for admin using which admin can add student, manage fees , manage employees, manage results .

Chapter 5 - CONCLUSION AND FUTUTRE SCOPE -

5.1 Conclusion - The Digital education will manage all the work in any school in particular order so that the time requirement and complexity of the system will be reduced, at first it will focus on student related information. As a student gets the admission in the school system will start managing the details regarding the students. It will manage the fee details, and if the full payment has not done, then it will notify about the fee to a staff of the school. This will then display the date of the test and when the test completes it will display the results of the students. While the parents can use it to monitor their children's performance, also they can contact with the teachers.

5.2 Future Scope- This system is aimed at total user-friendly as well as efficient management of varied tasks. These tasks may range from registering new students, managing fees payment, examination management to all the essential features necessary for making the administrative division of school effective. In order to cope up with all these factors, the school management system was developed and nowadays, it has even been recognized by most of the Indian schools. As a matter of fact, this system based on smart technology has become an integral part of many schools.

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