



INTERNATIONAL JOURNAL OF ADVANCED INNOVATIVE TECHNOLOGY IN ENGINEERING

Published by Global Advanced Research Publication
House Journal

Home page: www.ijaite.co.in

Web based Dynamic Information System

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Article History

Received on: 12 April 2022

Revised on: 25 April 2022

Accepted on: 29 May 2022

Keywords: Web-Based Dynamic Management Information System, Graphical User Interface, Web-application

ABSTRACT

The Web-Based Dynamic Management Information System is nothing but the MIS system of the National Institute of Technical and Management Studies (NITMS) which is situated in Nagpur. The main objective behind this paper is to provide all-time access to every possible requirement of the institute that has been on the site and to the users/students for their needs. The main admin panel can only be accessed by the owner (i.e., Institute) through an internet connection. Along with the Management System, there is a website that is globally present for everyone especially students, and also for those who are interested in taking admission to this institute. A beautiful and user-friendly website is available on the internet from where people can get all the information about the institute. The enrolled students can also access their details through the website, and also check their results too. With the help of this application, it becomes very easy to manage data.

e-ISSN: 2455-6491

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1. INTRODUCTION

The prime objective of this research is to develop a website that has GUI i.e., Graphical User Interface which is based on software application and is user friendly as well as platform-independent. Web-Based Dynamic Management and Information System is an integrated web application that grasps abundant activities of the institute and deals with all the student-institute-related work. The system uses web technologies for design and implementation. The proposed

system will have a database of students' details in all aspects that can facilitate the user to explore all the features. The management system can be used to store details of students such as admission details, result details, and fees details, and can show detailed information about the student including his/her address, mobile number, etc which can be seen anytime by the student or institute by just logging in. It keeps each and every record with high security. Students can himself/herself pay the fees by

logging into the portal. Students can also check the course details. The admin can add new students and can make the changes by using their IDs and password. Admin can create reports regarding any student anytime.

2. RELATED WORK

Lahar Mishra et. al. [1] proposed the system used lacked the information i.e., it required a lot of time to load and retrieve the information from the database and some of it was lost at the time of viewing which has been overcome by this project which provides clear and accurate information in no time.

Galuh Tresna Murti et. al. [2] suggested the major thing that other Management Information System used to deprive of is that it was available only for a particular institute but the project designed by us have all the features and facilities that can be used for universities and many more rather than using it for small purpose.

Randolph B. Cooper et. al. [3] suggested the previous MIS was inappropriate in many ways. The data used to be stored in a database and from there they have to retrieve using API although there are many efficient ways using which we do not have to run the API on the database. The MIS used to denude the process of payment which caused a lot of people to suffer which has been bridled by this project and many more.

The existing website of the National Institute of Technical Management System was inappropriate in distinct ways. The existing website fails to provide detailed information about the institute as well as about the students because of which there was a miscommunication between the institute and students. The website was not well designed as the images of the result couldn't load as soon as the page appeared.

On the other hand, the admin panel faced difficulty to update the student details related to payments, results, and detailed information regarding the specific student due to miscommunication between the institute and the student. It requires a lot of time to fetch the data from the database [4]-[5]. This leads to a serious problem where the payment made by the student doesn't appear on the page and is not known by the institution because of which the student has to face various problems at the time of transaction.

3. PROPOSED ALGORITHM

We resolve all the issues that have been aroused in the existing system. The proposed

system comprises all the modules and the components that have been implemented during this project. The website is built for the sake of ensuring clear data saving and manipulation as well as neat work on information. The website created avoids waste of time.

The proposed system comprises three modules

- Admin Module
- User Module

A. Module 1 (Admin Module)

1. Login Component: This component includes the login page of the website where the user, as well as the admin, can log in and get access to the facilities.

2. Student-Table Component: It includes the table that contains the details of the students that have taken admitted to the respective institute.

3. Student-Form Component: It comprises the form in which the admin has to fill in the student's details for admission or readmission.

4. Admission Form Component: This page contains the form of admission which will be filled by the admin for conforming and reconfirming the student admission details

B. Module 2 (User Module)

1. Home Component: This component gives a glimpse of NITMS and its motto.

2. Student-Login Component: In this component, the student can log in and access the facilities provided by the website.

3. Student-Verification Component: In this component, the student needs to fill in the enrollment number and the birth date wherein they can view the result details.

4. Courses-Component: The courses provided by NITMS for student learning have been mentioned in this component.

5. Examination-Component: It includes the process of examination, exam center as well as grading process.

6. Placement-Component: It shows the list of companies in which the students have been placed with the help of NITMS.

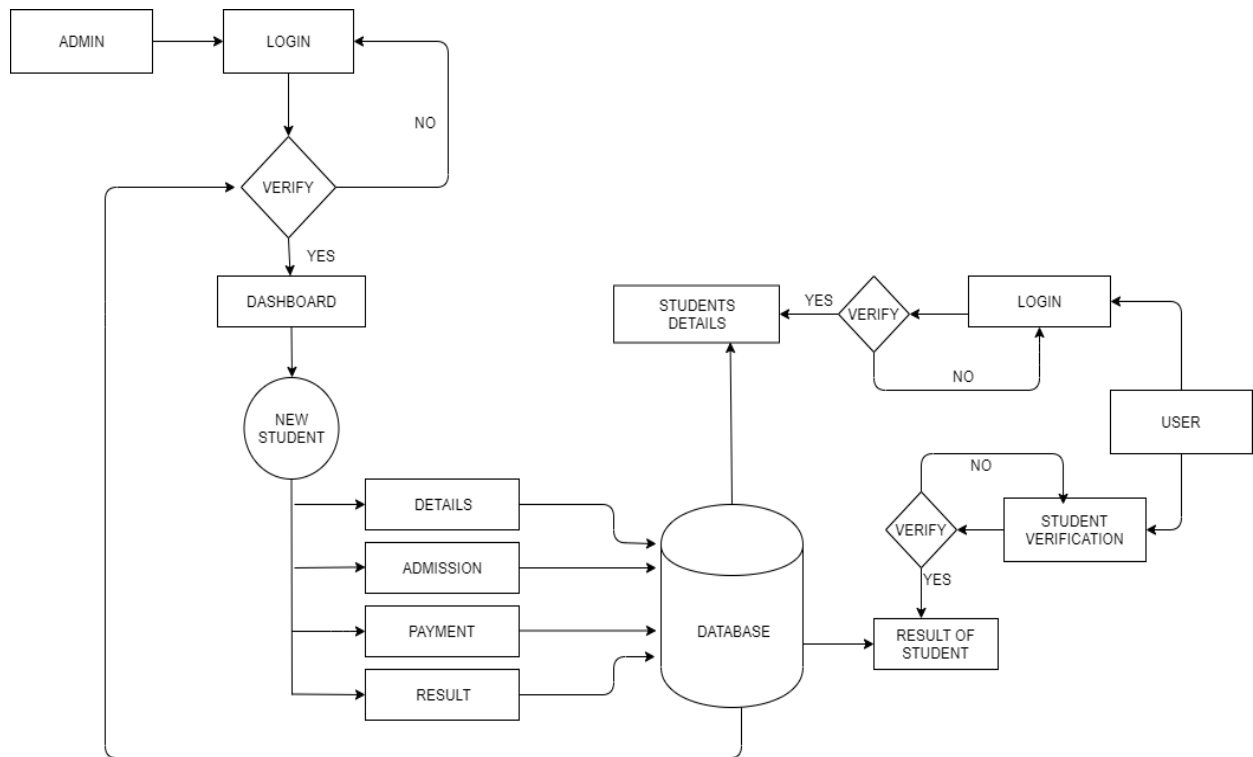


Figure 1: Working Flow of Proposed Web-based application

RESULT ANALYSIS

This section presents the screenshots of a proposed web-based application.

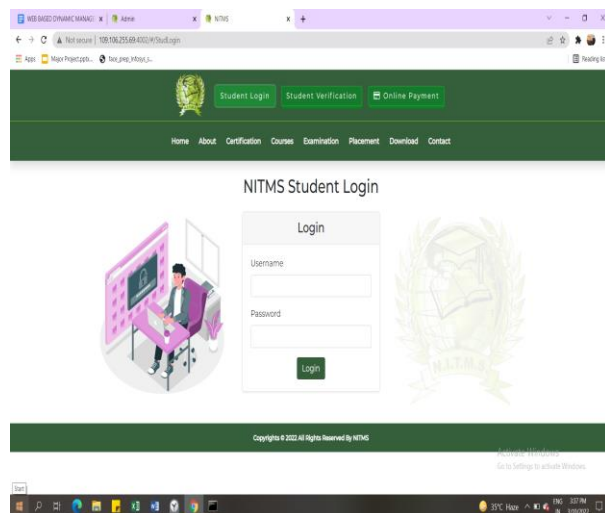


Figure 2: Student Login Page

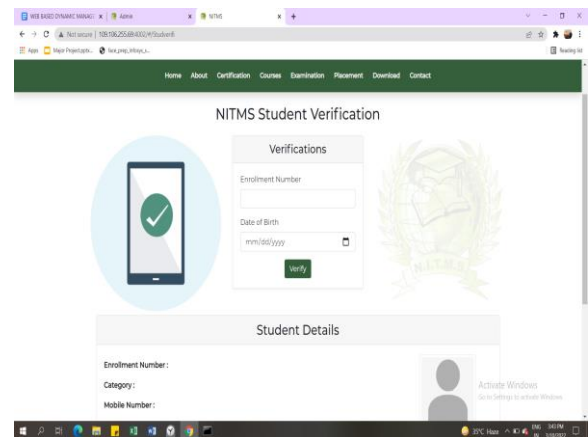


Figure 3: Student Verification

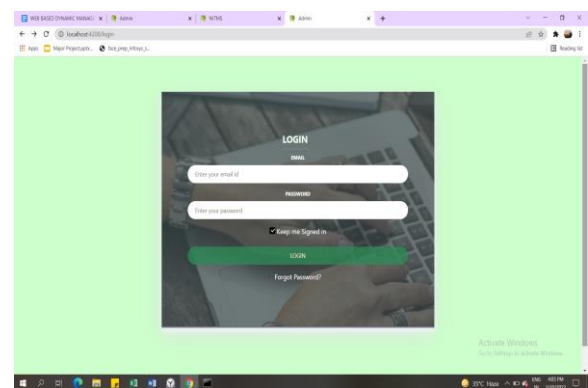
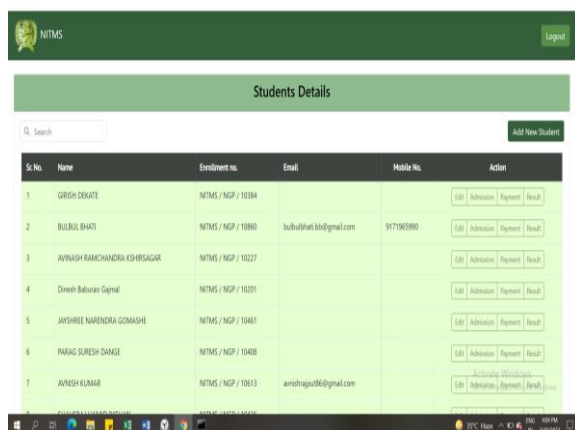


Figure 4: Admin Login



Sl No.	Name	Enrollment no.	Email	Mobile No.	Action
1	GIRISH DEKATE	NITMS / NGP / 10384			Edit Admission Payment Result
2	BULBUL BHATTI	NITMS / NGP / 10380	bulbulbhatti.bbb@gmail.com	9177963990	Edit Admission Payment Result
3	ANURAG RAMCHANDRA KISHORSAGAR	NITMS / NGP / 10327			Edit Admission Payment Result
4	Dinesh Baburao Gajmal	NITMS / NGP / 10301			Edit Admission Payment Result
5	JAYSHREE NARENDRA GOMASHE	NITMS / NGP / 10461			Edit Admission Payment Result
6	PARAG SURESH DANGE	NITMS / NGP / 10408			Edit Admission Payment Result
7	ANURAG KUMAR	NITMS / NGP / 10413	anuragkumar08@gmail.com		Edit Admission Payment Result

Figure 5: Students Details

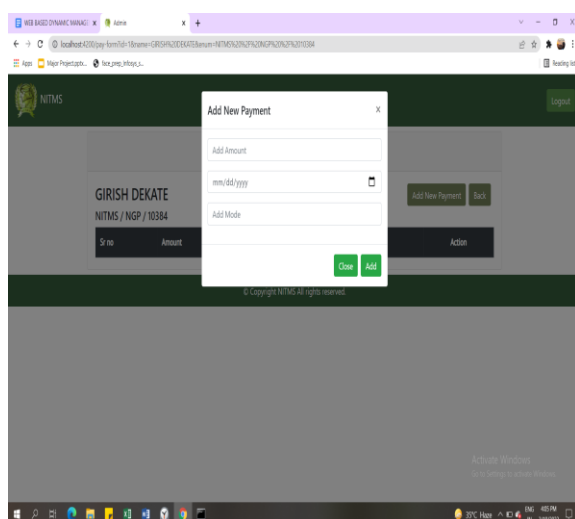


Figure 6: Payment Mode

CONFLICT OF INTEREST

The authors declare that they have no conflict of interest.

FUNDING SUPPORT

The author declares that they have no funding support for this study.

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