

COLLEGE WEBSITE

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ABSTRACT

The purpose of College Website is to automate the existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with. College Website, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus, it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information. The aim is to automate its existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically, the project describes how to manage for good performance and better services for the clients. To automate manual processes, centralize information, and offer a digital hub for the college community.

Keywords: Introduction, Literature Survey, Scope Of Project, Methodology, Details Of Designs, Working And Processes, Features Of The Project College Website, Software Requirement Specification, Results And Applications, Conclusion And Future Scope, References And Bibliography Etc.

1. INTRODUCTION

The "College Website" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and, in some cases, reduce the hardships faced by this existing system. Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and effective manner. The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus, by this all it proves it is user-friendly. College Website, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus, it will help organization in better utilization of resources. Every organization, whether big or small, has challenges to overcome and managing the information of Student, College, Course, Faculty, Fees. Every College Website has different College needs; therefore, we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executive who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.

1.1 Objective of Project on College Website:

The main objective of the Project on College Website is to manage the details of College, Student, Employee, Course, Fees. It manages all the information about College, Faculty, Fees, College. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the College, Student, Faculty, Employee. It tracks all the details about the Employee, Course, Fees.

Functionalities provided by College Website are as follows:

Provides the searching facilities based on various factors. Such as College, Employee, Course, Fees

College Website also manage the faculty details online for Course details, Fees details, College.

It tracks all the information of Student, Faculty, Course etc.

Manage the information of Student • Shows the information and description of the College, Employee

To increase efficiency of managing the College, Student

It deals with monitoring the information and transactions of Course.

Manage the information of college

Editing, adding and updating of Records is improved which results in proper resource management of college data. •

Manage the information of Course

Integration of all records of Fees.

1.2 Requirements

Software Requirements:

BROWSER: GOOGLE CHROME

Operating System: Any Windows version/MAC

Hardware Requirements:

PROCESSOR: INTENL PENTIUM IV OR ABOVE

RAM: 512 MB OR MORE

HARD DISK: 40 GB OR MORE

Functional Requirements:

The system provides all the information about the college in detail

The system gives in detail description of our college infrastructure

All the information about the faculty and labs are provided in department wise

All the necessary information is rendered with proper images and flash slides for better navigation

Proper information regarding the mode of transport and available means is also included Non-Functional Requirements:

Runs on low performance systems and on any environment

Cost effective deployment (When buying out storage space)

All the languages used to develop the system are client-side scripting languages which provide dynamic system.

2. LITERATURE SURVEY

The existing college website is static which makes it less interactive. It doesn't have a database connectivity. Moreover, students didn't have an access to the details of the college through the site, hence they were not updated about the latest events and placement drives. As the existing website is not maintained and the domain has been blocked. There is a need for new one.

2.1 Proposal System:

Introduction related your research work Introduction related your research work Introduction related your research work Introduction related your research work Introduction related your research work Introduction related your research work.

2.2 Glossary:

| Sr. No. | Technology |
|---------|-----------------------------------|
| 1 | HTML – Hyper Text Markup Language |
| 2 | JS – JavaScript |
| 3 | CSS – Cascading Style Sheets |
| 4 | BS - Bootstrap |

3. SCOPE OF PROJECT

It may help collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to College Website. It will be also reduced the cost of collecting the management & collection procedure will go on smoothly.

Our project aims at Business process automation, i.e., we have tried to computerize various processes of College Website.

In computer system the person has to fill the various forms & number of copies of the forms can be easily generated at a time.

In computer system, it is not necessary to create the manifest but we can directly print it, which saves our time.

To assist the staff in capturing the effort spent on their respective working areas.

To utilize resources in an efficient manner by increasing their productivity through automation

The system generates types of information that can be used for various purposes.

It satisfies the user requirement

Be easy to understand by the user and operator

Be easy to operate

Have a good user interface

Be expandable

Delivered on schedule within the budget.

4. METHODOLOGY

Implementation Methodology:

Model View Controller or MVC as it is popularly called, is a software design pattern for developing web applications.

A Model View Controller pattern is made up of the following three parts:

Model - The lowest level of the pattern which is responsible for maintaining data.

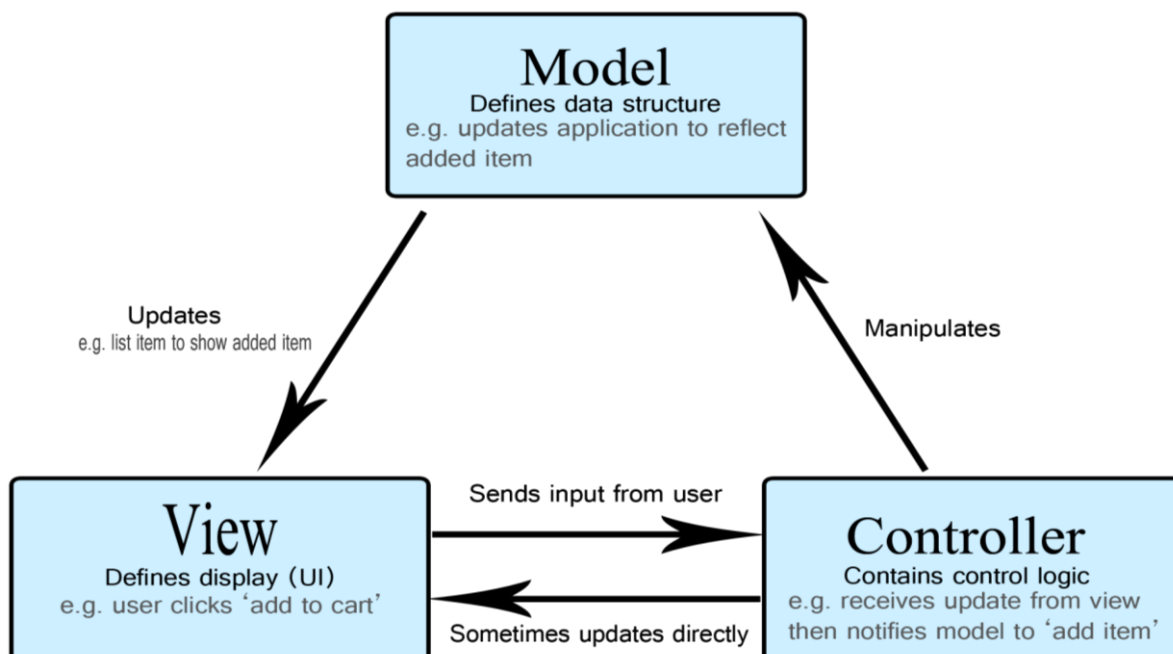
View - This is responsible for displaying all or a portion of the data to the user.

Controller - Software Code that controls the interactions between the Model and View.

MVC is popular as it isolates the application logic from the user interface layer and supports separation of concerns. Here the Controller receives all requests for the application and then works with the Model to prepare any data needed by the View. The View then uses the data prepared by the Controller to generate a final presentable response. The MVC abstraction can be graphically represented as follows.

MVC (Model View Controller Flow)

Diagram DATA FLOW



MVC DIAGRAM

4.1 Project Planning:

Software project plan can be viewed as the following:

1) Within the organization: How the project is to be implemented? What are various constraints (time, cost, and staff)? What is market strategy?

2) With respect to the customer: Weekly or timely meetings with the customer with presentation on status reports. Customers feedback is also taken and further modification and developments are done. Project milestones and deliverables are also presented to the customer.

For a successful software project, the following steps can be followed:

Select a project

- o Identifying project's aims and objectives
- o Understanding requirements and specification
- o Methods of analysis, design and implementation
- o Testing techniques
- o Documentation

Project milestones and deliverables

Budget allocation

- o Exceeding limits within control

Project Estimates

- o Cost
- o Time
- o Size of code
- o Duration

Resource Allocation

- o Hardware
- o Software
- o Previous relevant project information
- o Digital Library

Risk Management

- o Risk avoidance
- o Risk detection

5. DETAILS OF DESIGN, WORKING AND PROCESSES

5.1 System Design of College Website

In this phase, a logical system is built which fulfils the given requirements. Design phase of software development deals with transforming the client's requirements into a logically working system. Normally, design is performed in the following in the following two steps:

1. Primary Design Phase:

In this phase, the system is designed at block level. The blocks are created on the basis of analysis done in the problem identification phase. Different blocks are created for different functions emphasis is put on minimizing the information flow between blocks. Thus, all activities which require more interaction are kept in one block.

2. Secondary Design Phase:

In the secondary phase the detailed design of every block is performed.

The general tasks involved in the design process are the following:

1. Design various blocks for overall system processes.
2. Design smaller, compact and workable modules in each block.
3. Design various database structures.
4. Specify details of programs to achieve desired functionality.
5. Design the form of inputs, and outputs of the system.
6. Perform documentation of the design.
7. System reviews.

5.2 User Interface Design:

User Interface Design is concerned with the dialogue between a user and the computer. It is concerned with everything from starting the system or logging into the system to the eventually presentation of desired inputs and outputs. The overall flow of screens and messages is called a dialogue.

The following steps are various guidelines for User Interface Design:

1. The system user should always be aware of what to do next.
2. The screen should be formatted so that various types of information, instructions and messages always appear in the same general display area.

3. Message, instructions or information should be displayed long enough to allow the system user to read them.
4. Use display attributes sparingly.
5. Default values for fields and answers to be entered by the user should be specified.
6. A user should not be allowed to proceed without correcting an error.
7. The system user should never get an operating system message or fatal error.

5.3 Reports of College Website:

It generates the report on College, Student, and Faculty

Provide filter reports on Employee, Course, and Fees

You can easily export PDF for the College, Faculty, and Course

Application also provides excel export for Student, Employee, Fees

You can also export the report into csv format for College, Student, and Fees

5.4 Modules of College Website:

College Management Module: Used for managing the College details.

Fees Module: Used for managing the details of Fees

Faculty Module: Used for managing the details of Faculty

Student Management Module: Used for managing the information and details of the student.

Employee Module: Used for managing the Employee details

Course Module: Used for managing the Course information

Login Module: Used for managing the login details

Users Module: Used for managing the users of the system.

6. FEATURES OF THE PROJECT COLLEGE WEBSITE

- Product and Component based
- Creating & Changing Issues at ease
- Query Issue List to any depth
- Reporting & charting in more comprehensive way
- User Accounts to control the access and maintain security
- Simple Status & Resolutions
- Multi-level Priorities & Severities.
- Targets & Milestones for guiding the programmers
- Attachments & Additional Comments for more information
- Robust database back-end
- Various level of reports available with a lot of filter criteria's
- It contains better storage capacity.
- Accuracy in work.
- Easy & fast retrieval of information.
- Well-designed reports.
- Decrease the load of the person involve in existing manual system.
- Access of any information individually.
- Work becomes very speedy.
- Easy to update information

7. SOFTWARE REQUIRMENT SPECIFICATION

The Software Requirements Specification is produced at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by establishing a complete information description, a detailed functional and behavioral description, an indication of performance requirements and design constraints, appropriate validation criteria, and other data pertinent to requirements.

The proposed system has the following requirements:

- System needs store information about new entry of college.
- System needs to help the internal staff to keep information of Student and find them as per various queries.

- System needs to maintain quantity record.
- System needs to keep the record of Employee.
- System needs to update and delete the record.
- System also needs a search area. It also needs a security system to prevent data.

7.1 Identification of need:

The old manual system was suffering from a series of drawbacks. Since whole of the system was to be maintained with hands the process of keeping, maintaining and retrieving the information was very tedious and lengthy. The records were never used to be in a systematic order. there used to be lots of difficulties in associating any particular transaction with a particular context. If any information was to be found it was required to go through the different registers, documents there would never exist anything like report generation. There would always be unnecessary consumption of time while entering records and retrieving records. One more problem was that it was very difficult to find errors while entering the records. Once the records were entered it was very difficult to update these records.

The reason behind it is that there is lot of information to be maintained and have to be kept in mind while running the business. For this reason, we have provided features Present system is partially automated (computerized), actually existing system is quite laborious as one has to enter same information at three different places.

Following points should be well considered:

- Documents and reports that must be provided by the new system: there can also be few reports, which can help management in decision-making and cost controlling, but since these reports do not get required attention, such kind of reports and information were also identified and given required attention.
- Details of the information needed for each document and report.
- The required frequency and distribution for each document.
- Probable sources of information for each document and report.
- With the implementation of computerized system, the task of keeping records in an organized manner will be solved. The greatest of all is the retrieval of information, which will be at the click of the mouse. So, the proposed system helps in saving the time in different operations and making information flow easy giving valuable reports.

7.2 Feasibility Study:

After doing the project College Website, study and analyzing all the existing or required functionalities of the system, the next task is to do the feasibility study for the project. All projects are feasible - given unlimited resources and infinite time.

Feasibility study includes consideration of all the possible ways to provide a solution to the given problem. The proposed solution should satisfy all the user requirements and should be flexible enough so that future changes can be easily done based on the future upcoming requirements.

A. Economic Feasibility

This is a very important aspect to be considered while developing a project. We decided the technology based on minimum possible cost factor.

- All hardware and software cost has to be borne by the organization.
- Overall, we have estimated that the benefits the organization is going to receive from the proposed system will surely overcome the initial costs and the later on running cost for system.

B. Technical Feasibility

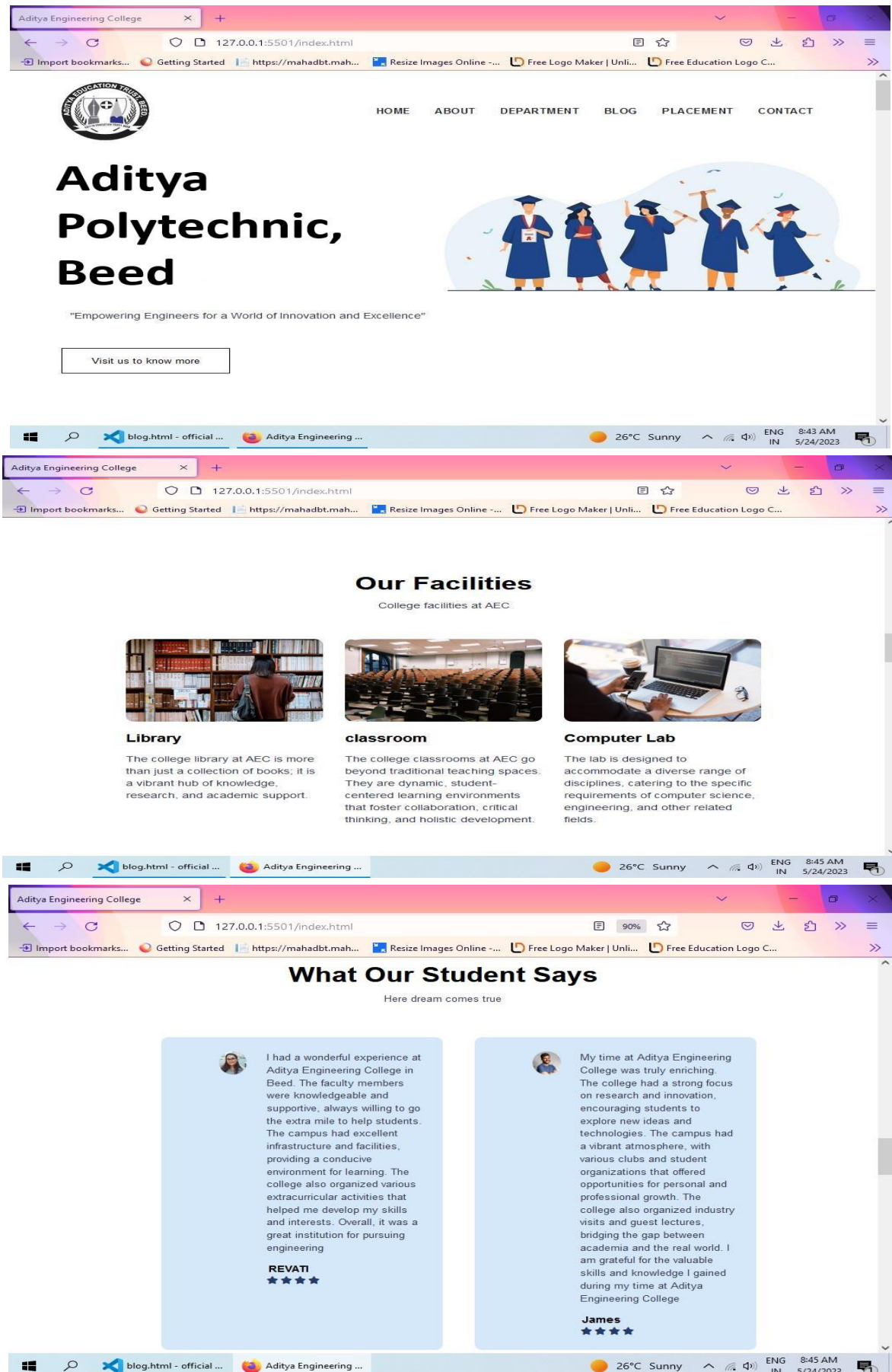
This included the study of function, performance and constraints that may affect the ability to achieve an acceptable system. For this feasibility study, we studied complete functionality to be provided in the system, as described in the System Requirement Specification (SRS), and checked if everything was possible using different type of frontend and backend platforms.

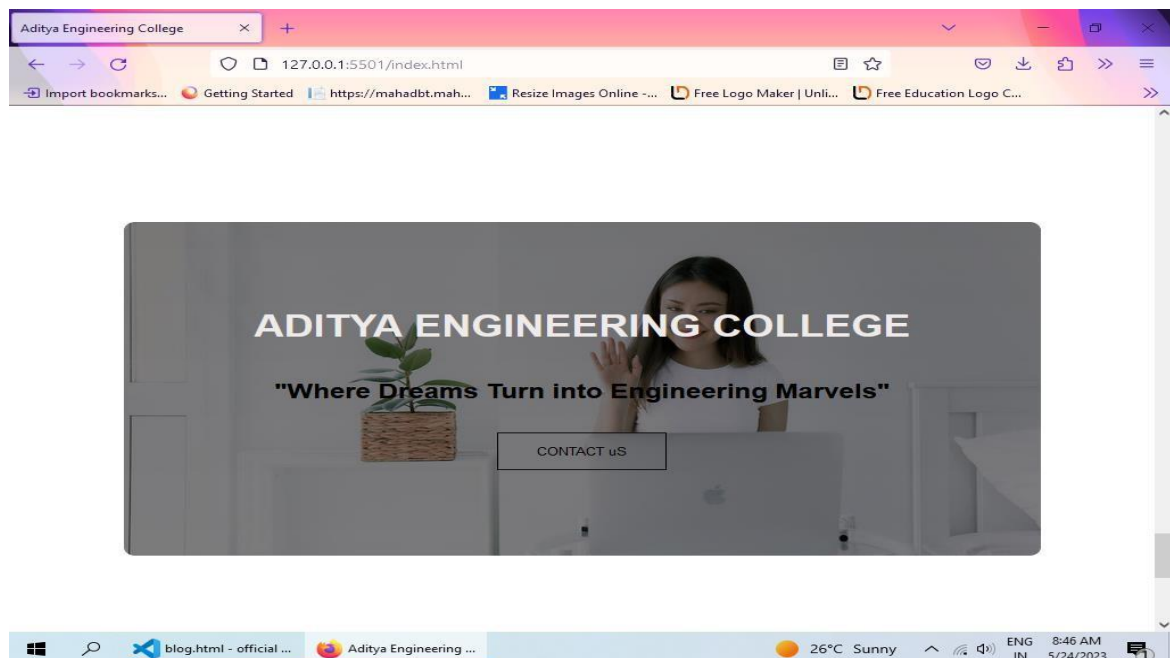
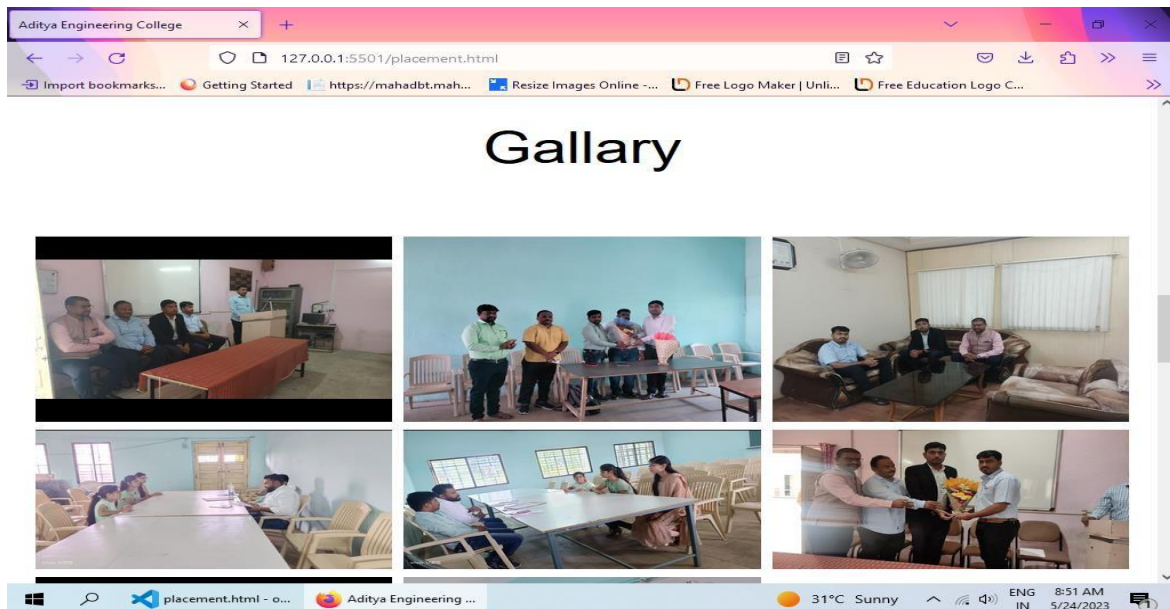
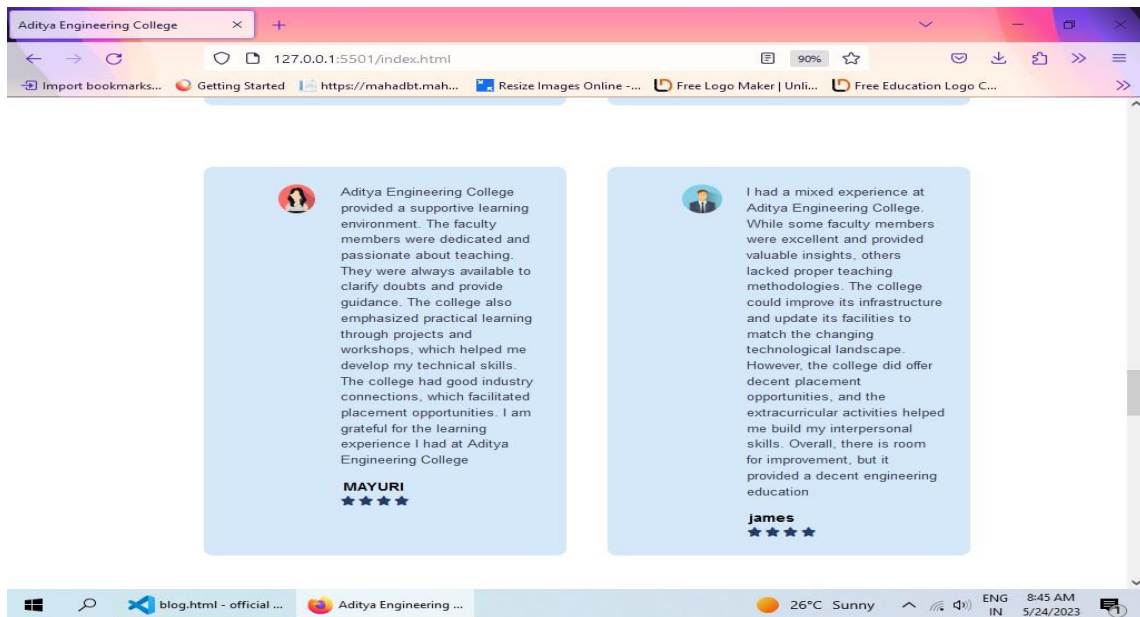
C. Operational Feasibility

No doubt the proposed system is fully GUI based that is very user friendly and all inputs to be taken all self-explanatory even to a layman. Besides, a proper training has been conducted to let know the essence of the system to the users so that they feel comfortable with new system. As far our study is concerned the clients are comfortable and happy as the system has cut down their loads and doing.

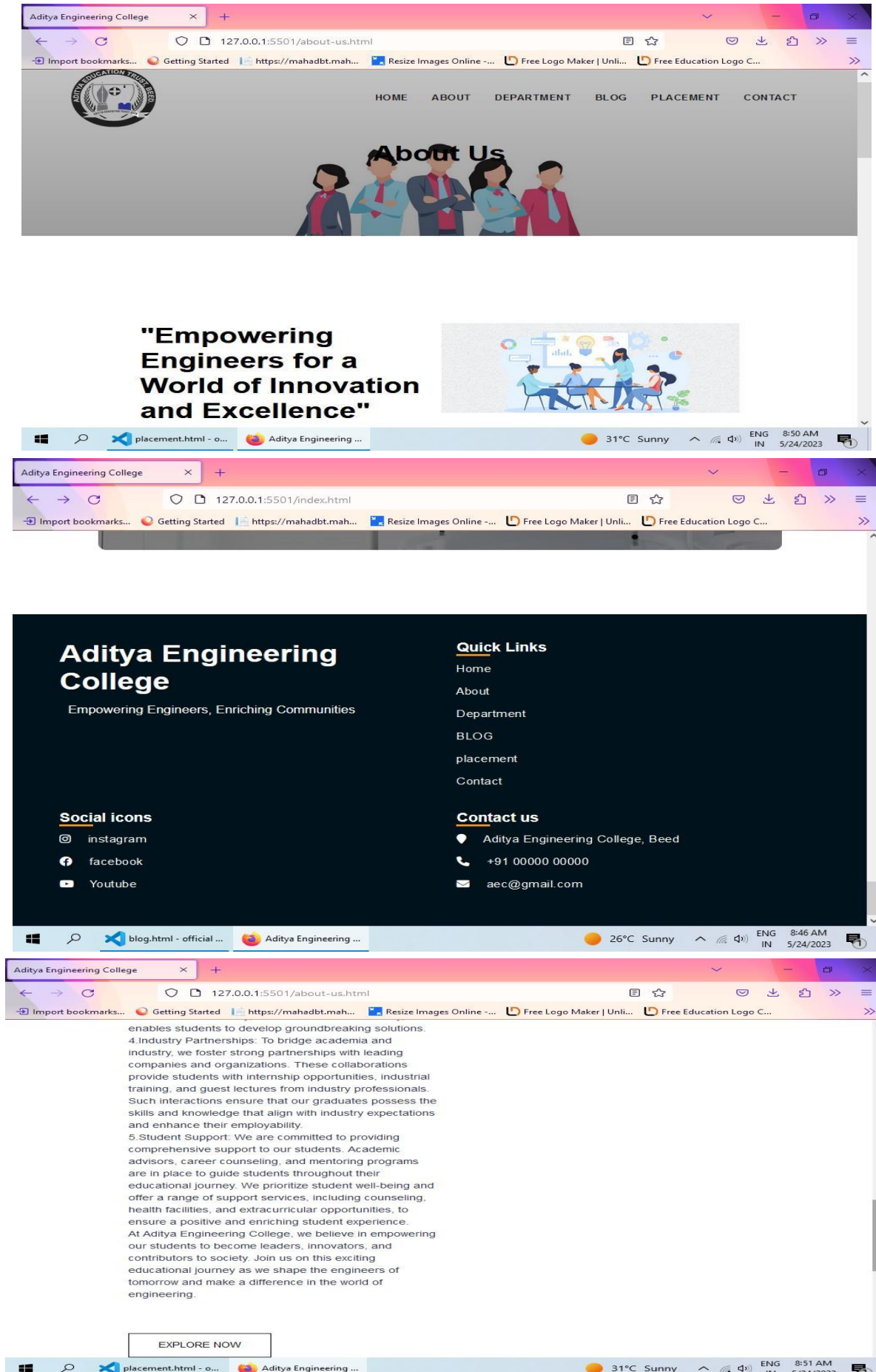
8. RESULTS AND APPLICATIONS

8.1 HOME PAGE

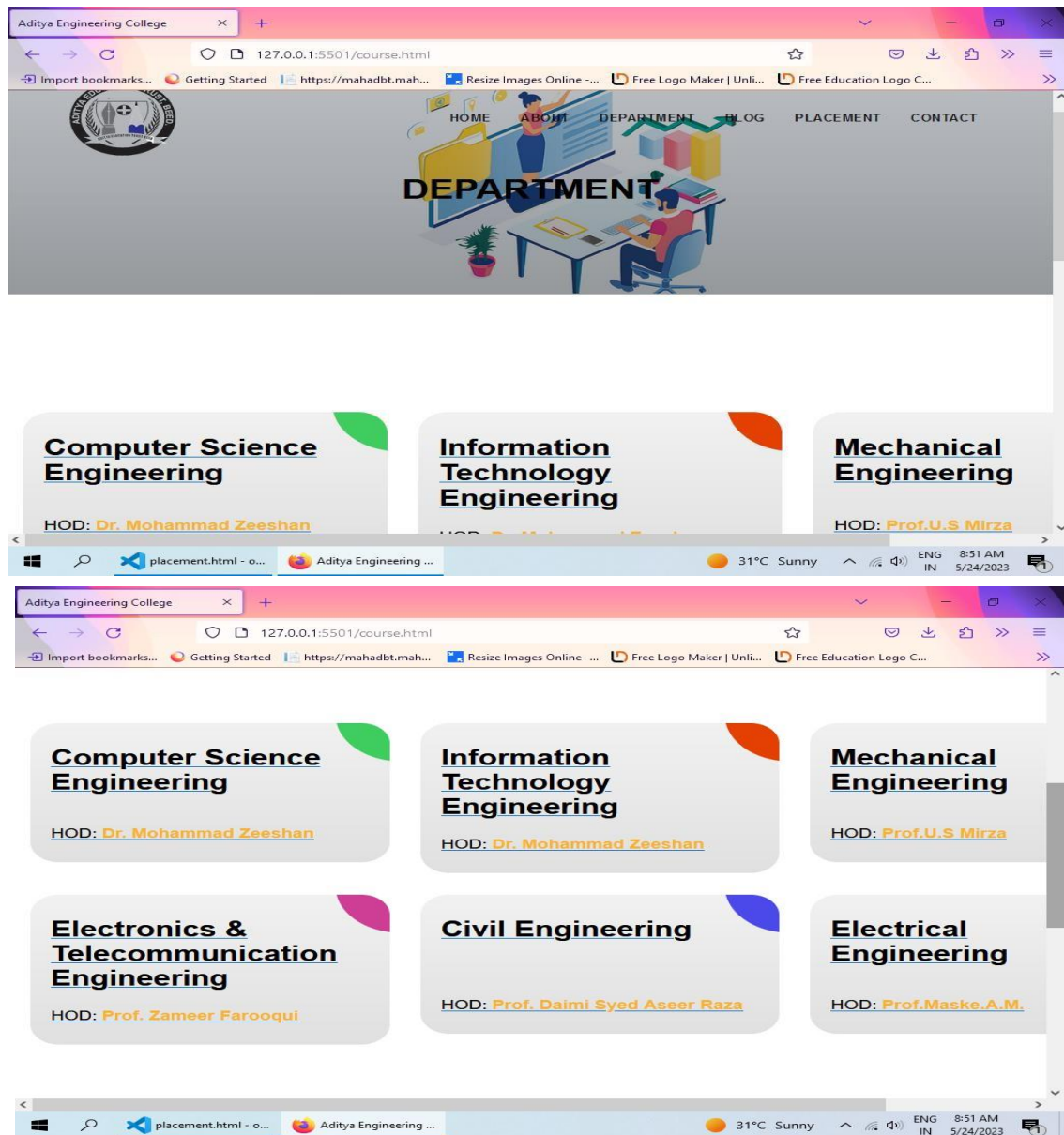




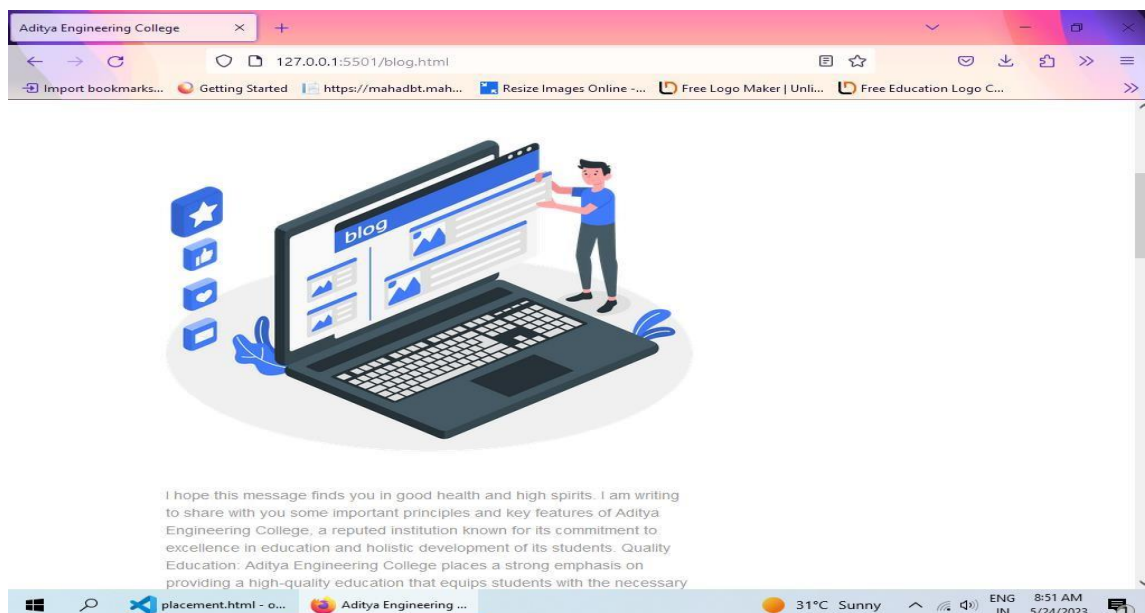
8.2 ABOUT PAGE

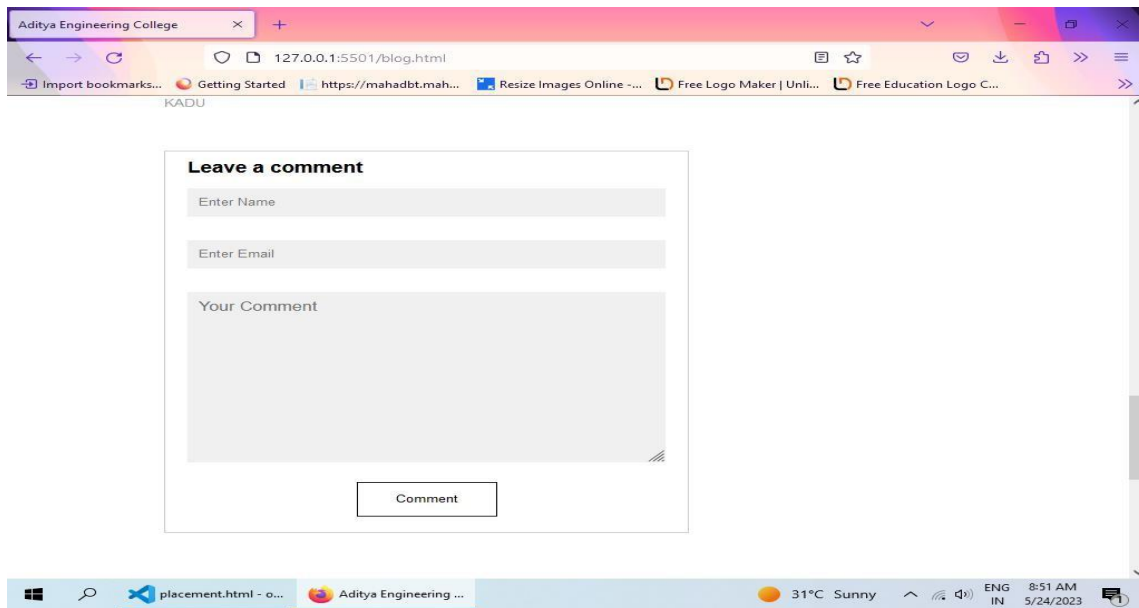


8.3 DEPARTMENT PAGE

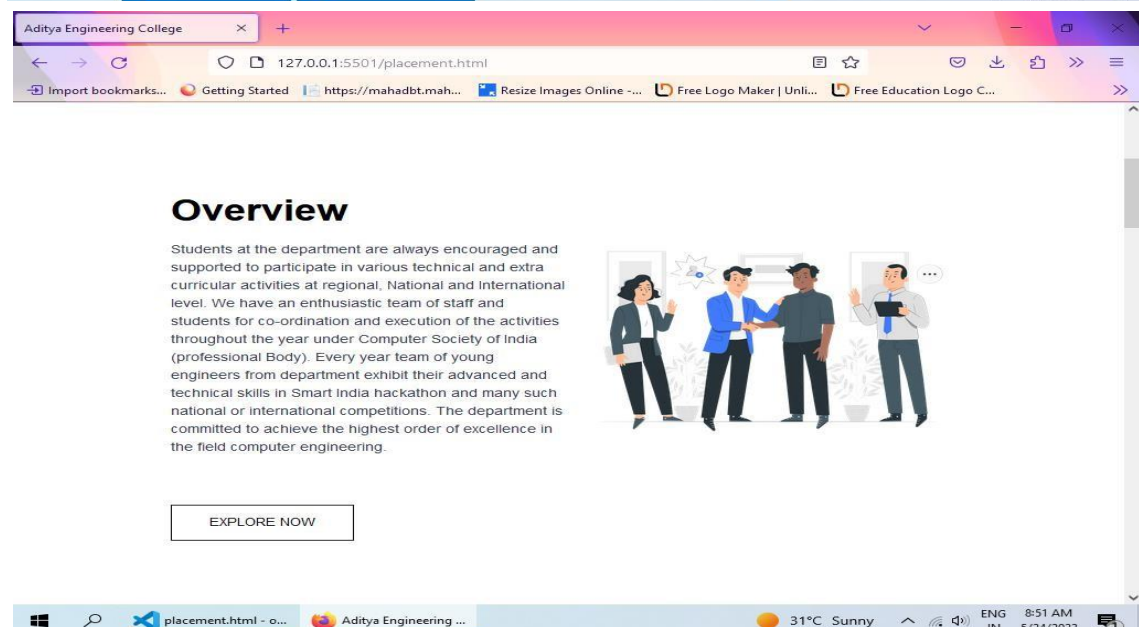
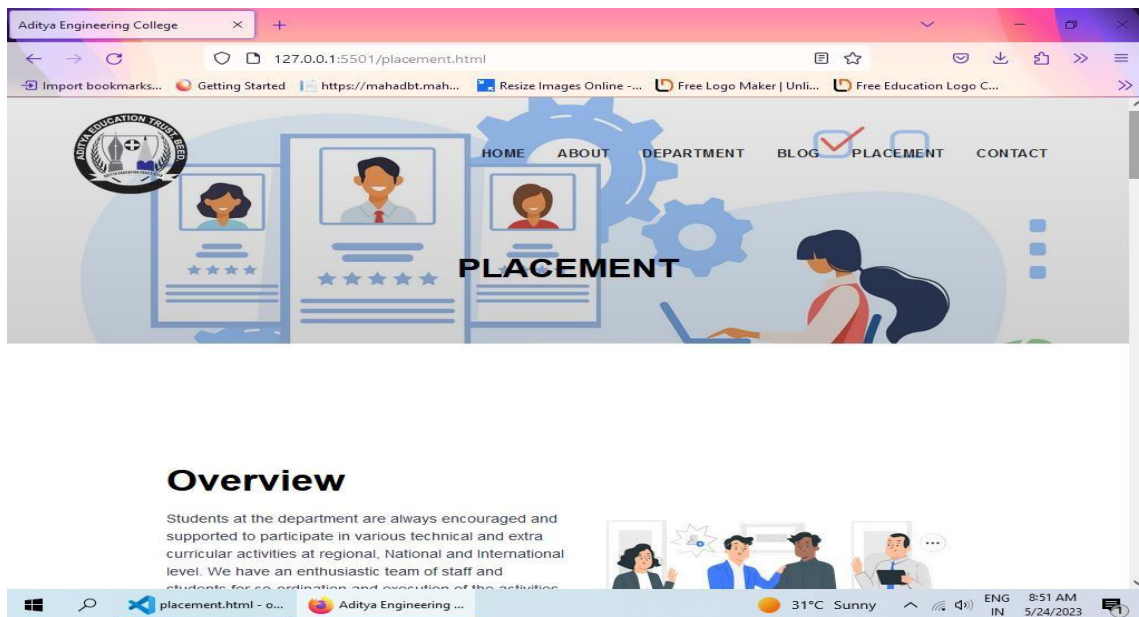


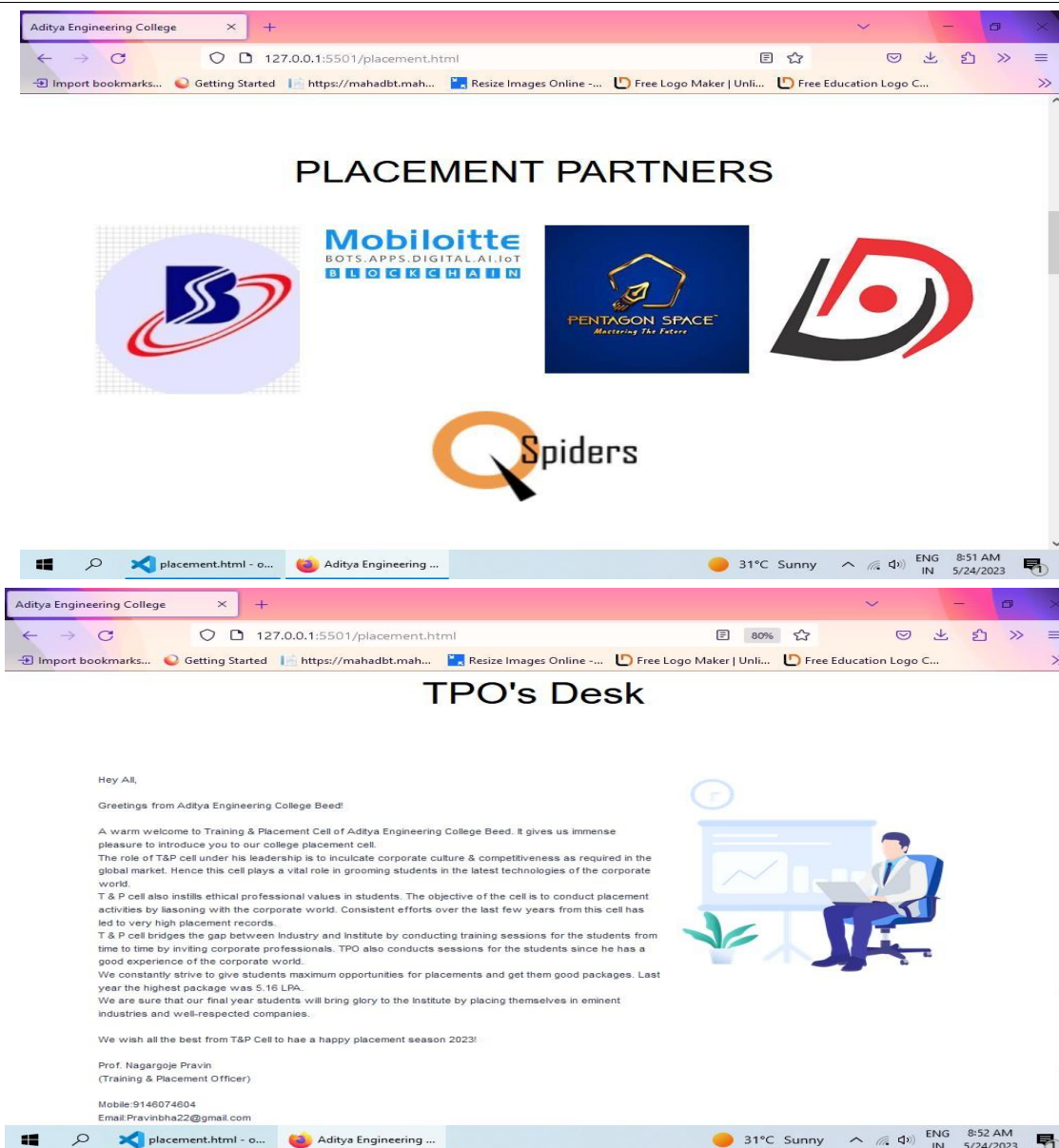
8.4 BLOG PAGE



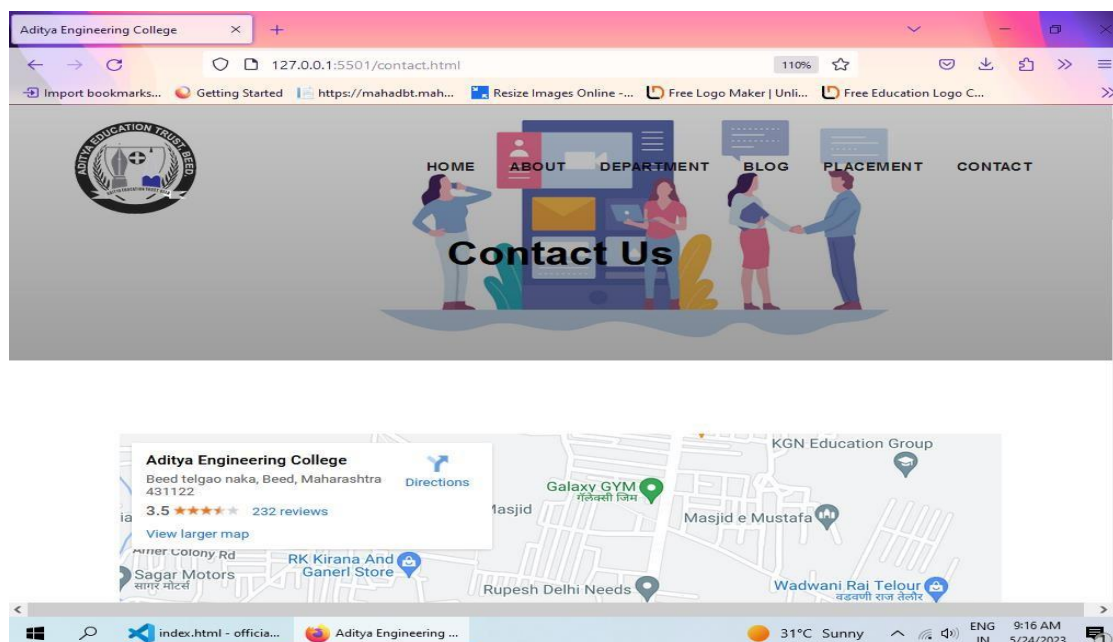


8.5 PLACEMENT PAGE





8.6 CONTACT US PAGE



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9. CONCLUSION

9.1 Conclusion of the Project College Website:

It is only a humble venture to satisfy the needs to manage their project work. Several user-friendly coding has also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the school. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

At the end it is concluded that we have made effort on following points...

- A description of the background and context of the project and its relation to work already done in the area.
- Made statement of the aims and objectives of the project.
- The description of Purpose, Scope, and applicability.
- We define the problem on which we are working in the project.
- We describe the requirement Specifications of the system and the actions that can be done on these things.
- We understand the problem domain and produce a model of the system, which describes operations that can be performed on the system.
- We included features and operations in detail, including screen layouts.
- We designed user interface and security issues related to system.

Finally, the system is implemented and tested according to test cases.

9.2 Future Scope of the Project:

In a nutshell, it can be summarized that the future scope of the project circles around maintaining information regarding:

- We can add printer in future.
- We can give more advance software for College Website including more facilities
- We will host the platform on online servers to make it accessible worldwide
- Integrate multiple load balancers to distribute the loads of the system
- Create the master and slave database structure to reduce the overload of the database queries
- Implement the backup mechanism for taking backup of codebase and database on regular basis on different servers

The above-mentioned points are the enhancements which can be done to increase the applicability and usage of this project. Here we can maintain the records of College and Student. Also, as it can be seen that now-a-days the players are versatile, i.e., so there is a scope for introducing a method to maintain the College Website. Enhancements can be done to maintain all the College, Student, Employee, Course, Fees.

We have left all the options open so that if there is any other future requirement in the system by the user for the enhancement of the system then it is possible to implement them. In the last we would like to thanks all the persons involved in the development of the system directly or indirectly. We hope that the project will serve its purpose for which it is develop there by underlining success of process.

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