COLLEGE WEBSITE

A

Project Report

SUBMITTED TO THE
DSEU DWARKA CAMPUS

In Partial Fulfilment of the Requirements
For the award of the DIPLOMA in

Computer Engineering

SUBMITTED BY

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UNDER THE GUIDANCE OF

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Title of Project Work- COLLEGE WEBSITE

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DSEU
Crafting Excellence

Index

Title of Project

COLLEGE WEBSITE

Information Sheet

This website contain -:

6.1 TECHNOLOGY-

- **HTML: HTML** is a hypertext markup language which is, in reality, a spinal cord of any website. Any website can't be structured without the knowledge of HTML. If we make our web page only with the help of HTML, then we can't add many of the effective features in a web page, for making a web page more effective we use various platforms such as static and dynamics methods. And here we are using this language to make our web pages more effective as well as interactive for users to understand.

- **CSS: CSS** in PHP Stands for (Cascading Style Sheet). Cascading style sheets are used to format the laust of Web pages. They can be used to define way of writing or style, size of various table, and other aspects of Web pages that previously could only be defined in a static page's HTML. The main work of CSS is to separate content of a web document (written in any markup language) that is written using Cascading Style Sheets. There are lots of benefits that one can extract through this like improved content accessibility, better flexibility and moreover, and hence gives a level of control over various presentation characteristics of the document. It also helps in reducing the problems and helps in saving access time. It gives the option of selecting various style schemes and rules according to the necessity.

- **JAVASCRIPT: JavaScript** is the most famous scripting languages of all time. JavaScript is a Scripting Language of World Wide Web. The main usage of JavaScript is to add various Web

function, validations, detections, a creation of cookies and so on. JavaScript is the best scripting languages and that is why it is adopted by almost all browsers. JavaScript is considered the most powerful scripting languages in present use. It is used for the guider-side web development. JavaScript is used to make pages more interactive. It is a light-weight programming language and it is embedded directly into the markup syntax. JavaScript, as the name defines, was affected by many languages, especially Java.

Declaration

I hereby declare that the project work entitled **"COLLEGE WEBSITE"** submitted to DSEU Dwarka Campus, is a record of an original work done by me under the guidance of **"MRS Komal Dhingra and MR Arun Dabas.** This project work is submitted in the partial fulfilment of the requirements for the award of the Diploma in Computer Engineering. The results embodied in this report have not been submitted to any other University or Institute for the award of any degree or diploma.

Vaibhav Sharma (10621563)
Yogeshwar Vashist (10621619**)**
Sachin Kumar(10621452**)**

ACKNOWLEDGEMENT

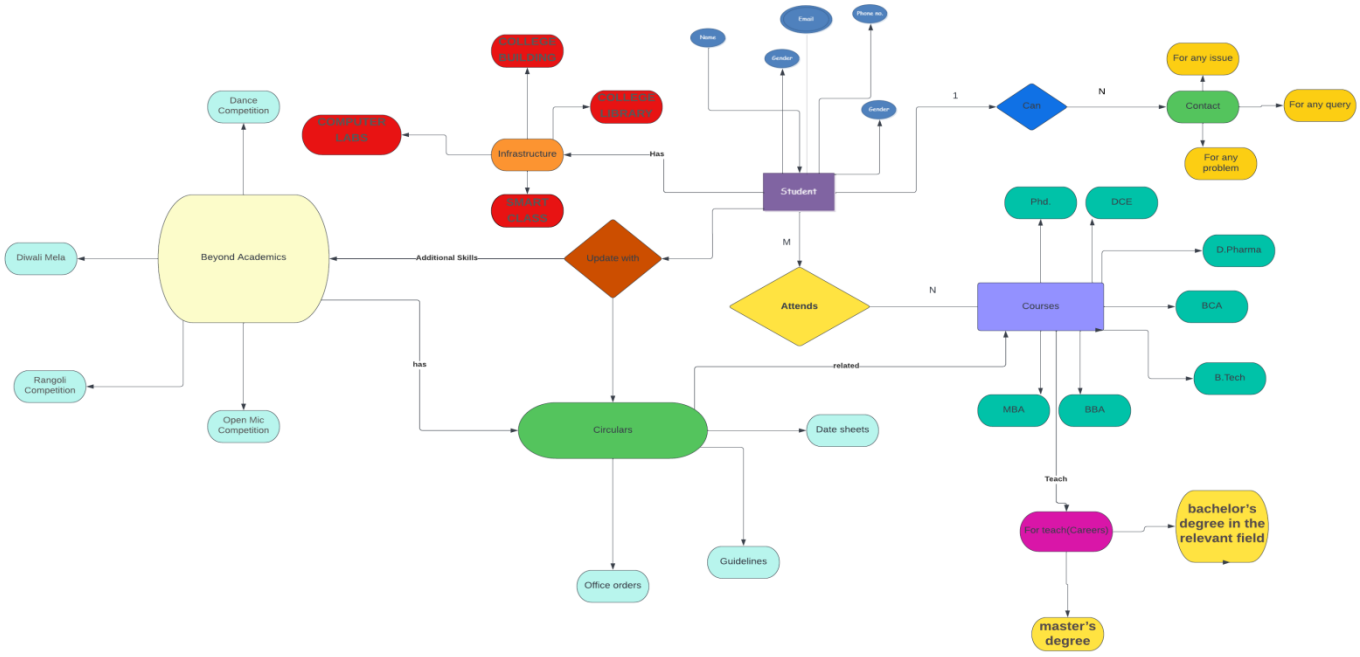
It is great happiness and privilege for us to represent this Project report. I have completed the development of College Website as project under the supervision of Mrs Komal Dhingra and Mr Arun Dabas .

I would like to express my gratitude towards all those people who have in various ways, helped me in successful completion of my project.

I'd like to be thankful to my colleagues and team members for their valuable support and corporation during my project.

List of Figures

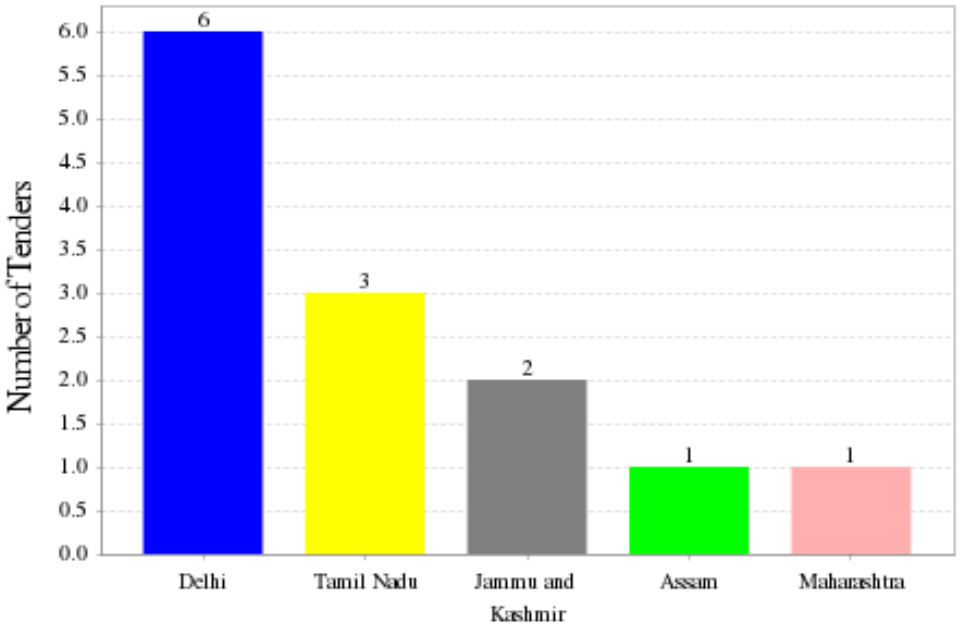
College ER Diagram



Entity-Relationship (ER) Diagram is a diagram that displays the relationship of entity sets stored in a database. As shown in the College ER Diagram, the entity-relationship diagrams help to explain the logical structure of a college that includes teachers, students, and schools. The attached diagram is created using EdrawMax and it contains different symbols that use rectangles to represent entities, ovals to define attributes, and diamond shapes to represent relationships. As represented in the diagram, a college ER diagram is a blended learning approach of the college system that combines different attributes of the teacher like name, gender, age, title, salary, and etc. At the same time, the school has different attributes like name, number, location, and leader.

List of tables

College Website Renewal Tenders - Top Ranked States



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The State government agencies and Public Sector Undertakings have published **15** College Website Renewal tenders until 04 Jan 2023.

Tendersniper consolidates online tenders, e Tenders, Expression of Interest (EoI), Request for Quotation and Manual tender notices published for College Website Renewal by the State government agencies and Public Sector Undertakings (PSU) in the various e-Procurement portals and public outlets in India.

Introduction

This College Website project developed using specific programming languages. The main aim of this project is to develop an online website which covers all the details of college i.e.; Event details, Students details, Marks details, Photo gallery, etc. In future All the record stores google drive. The proposed software will also reduce the cumbersome paperwork, manual labor as well as communication cost.

Purpose of the project:

The purpose of our project is to design, publish and maintain a website for our college which consists of all the information regarding the college like Basic information about website Short hand notices

Literature Review

The development of online college website has become an increasingly popular means for students to connect with their school community. This website provide a platform for students to easily disseminate information about the college, its activities and initiatives, as well as allow faculty and administrators to interact with their students on an equal level. Many research projects have looked into the impact that these websites have had in reshaping the expectations of student and staff in higher education institutions today.

Analysis of how university websites are designed from a usability perspective. They discovered that although online universities advance academic offerings beyond what can be provided on campus, many websites still lack an effective navigation system or require too much scrolling for access to key information like registration deadlines or departmental contacts. In this study, it was suggested that less hierarchical sites be developed in order to better serve the users' needs for personalized education experiences or research opportunities.

Objectives

- **STUDENT MODULE: -** This module used to store student records. It contains the following information i.e. Important Notices, Datesheet, Educational details, etc. The students can search the notices according to different criteria such as name, Course, Room number, etc.

- **NOTICES:-**It includes information about various events which is currently going on and which will occur in the near course of time. Notices helps in quick capturing of any occurring event.

- **REGISTRATION MODULE: -** Report generation is also provided to view summarized detail regarding hostel fees and mess bill. It includes Hostel fees, Mess reports. Students can check hostel fees and mess bill

Work Plan and Methodology

The following are the steps to carry out the process of website programming:

#1 Planning

Phase 1: Guider collaboration

Planning with our guider will help achieve site goals, and allows for efficient use of time and development resources. Ask our guider to define what customers want in the clearest terms possible. Ask questions like:

1. What type of website is required?
2. Who is the target audience?
3. How many web pages are required?
4. How often will the content be updated?
5. Is CMS required (content management system)?
6. Are there any references worth checking out?
7. What's the web development budget?
8. Which third-party integrations are required?

Once us find answers to these questions, write them down. They will help us formulate goals for our website development project and define its scope.

Phase 2: Team discussion

The next phase involves discussing our client's website specification with our project team. This phase is important as it will help us translate the guider requirements into a fool-proof website project plan.

Address the following questions with our crew:

1. What needs to be done for the client?

2. How does the project break down into tasks?
3. Which team member will perform which task?
4. Where are the dependencies in the project?

With these primary questions answered, we will be able to lay out a basic project plan, describing when and how the website development project plan will be carried out. Discuss it with our guider and wait for the approval.

Once our guider gives a green signal, move to the next step!

#2 Building

The building phase is the most crucial phase of any website development project. Why? Because it's the part where us and our team will create things our guider wished existed. It is the part where our client's site will be brought to reality. From the information gathered to this point, us have to determine the laust, content, look, and functionalities of the site.

Phase 1: Branding, infrastructure, and laust

A good branding, infrastructure, and laust will not only make the website look attractive but will also help the visitors understand the core message and connect with the brand. Long story short, us will be planning and setting up the foundation of our website development project.

Some popular activities involved within this phase are:

1. Define the website name and tagline
2. Conclude logo, color palette, fonts, and page lausts
3. Buying a domain name or hosting service
4. Build a sitemap to display web pages and their relations

Note: Some of these are already present with guider and shared with the team

Phase 2: Content

Imagine going to a painting exhibition and looking at an 11 x 14 painting canvas with absolutely nothing in it. We might feel baffled and angry at the same time. our client's reaction will be the same if a website with no content gets delivered.

Gather all the content needed for the website. We will be working on the following aspects during this phase of our web development project:

1. Identify content needed for web pages, testimonials, privacy policy, terms of use, FAQs, etc.
2. Arrange stock images and graphics
3. Organize content in a content repository
4. Proofread and finalize content

Note: Some clients share imagery and text on their own and delegate the task of arranging the same to the web design and development company.

Phase 3: Design and development

Here comes the most important phase of our web development project. After deciding on branding, infrastructure, laust, and content for our guider, start planning, designing, and developing the website pages. The following are some important activities that will happen during this phase:

1. Designing page elements such as buttons, CTAs, and testimonials.
2. HTML, CSS, and Javascript authentication.
3. Developing functionalities like a blog, ecommerce store, or content management system.
4. Organizing web pages based on the sitemap
5. Reviewing design and making changes based on guidance's approval.

We suggest us do regular team meetings during the build phase. This will keep usr website development and management team on top of all deliberations.

#3 Optimization

According to Alan Perlis, optimization hinders revolution. Website optimization after the designing and development process is important because it can help visitors feel more fortunate with their visits to our guidance's website. In other words, people who come to our client's site hoping to find the answer to a question will find a solution to their problem using different platforms.

From minifying scripts and CSS to improving cross-browser performance and enabling gzip compression to optimizing images, this is the phase where our website development team will plan and bring the client's site up to the highest grade.

In case we have no idea of how we can improve the site's performance, Techoquare suggests checking out different website speed optimization checklists on the internet. Assign optimization tasks to a relevant team member if needed.

#4 Finalization

By the heading, us might have guessed what our next step of the website development project plan is going to be about! During the finalization, crucial steps will be taken from beginning to end in order to complete the client's web project. Relatively complex, it covers the following phases:

Phase 1: Initial testing

Initial testing is the phase where our web development team will authenticate website functionality and confirm if it matches the client's demand. On the basis of his requirements, certain tests may be conducted. Some of the known activities performed during this phase are:

1. Checking if the website matches current web standards
2. Making sure if the functionality is working as expected
3. Fixing issues that arise during testing
4. Check if the website design is responsive and work fine on all devices
5. Improving the website loading speed
6. Ensuring accessibility for differently-abled people.

Phase 2: Go live

Done with testing and fixing website problems? Great! Now it's time to make the client's website and support systems operational. In simple words, it is time to GO LIVE.

Here are some activities that will be planned and performed during this phase of the website development project:

1. Writing and passing the website's documentation to the client.

#3 Create a project schedule

The last step of creating a website development project plan is to create a project schedule. It involves mapping the activities and phases to specific dates. Remember all the activities we talked about above? During this phase, they will become usr project tasks with start and end dates.

Since project management scheduling process may feel a bit foreign to some teams, we have curated a list of steps us can take to build ours:

1. Define our project goals
2. Identify all stakeholders

3. Determine our final deadline
4. List each step or task to cover all bases
5. Assign a team member responsible for each task
6. Work backward to set due dates for each task
7. Organize our project schedule using a specific tool and share it with your team

There we go!

We told us about all the crucial steps of the website development project plan. Making a plan for our client's business website is crucial as it will help us and our team make sure that the end product comes out the right way.

Implementation/Coding

Implementation is the process of building the web according to its design. A web implementor creates hypertext markup language (HTML), Cascading Style Sheets (CSS), and Java scripts and Bootstrap.

The implementation process resembles software development because it involves using a specific syntax for encoding web structures or a programming language in a formal language in computer files. Although there are automated tools to help with the construction of HTML documents, a thorough grounding in HTML enriches the web implementor's expertise.

6.2 TECHNOLOGY-

- **HTML: HTML** is a hypertext markup language which is, in reality, a spinal cord of any website. Any website can't be structured without the knowledge of HTML. If we make our web page only with the help of HTML, then we can't add many of the effective features in a web page, for making a web page more effective we use various platforms such as static and dynamics methods. And here we are using this language to make our web pages more effective as well as interactive for users to understand.

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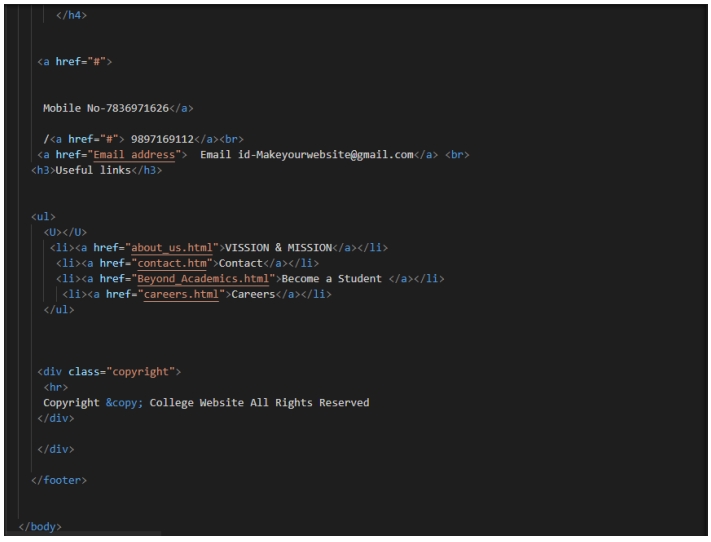
1. Pick our code editor.

Code editors are a great tool for new developers because they offer many features that make our lives easier. For example, Visual Studio Code (my choice) will offer syntax suggestions so you can avoid simple typos that cause issues in your code. On top of that, it will autocomplete closing tags for HTML and add visual markers to your files so that you can easily tell different pieces of code apart.

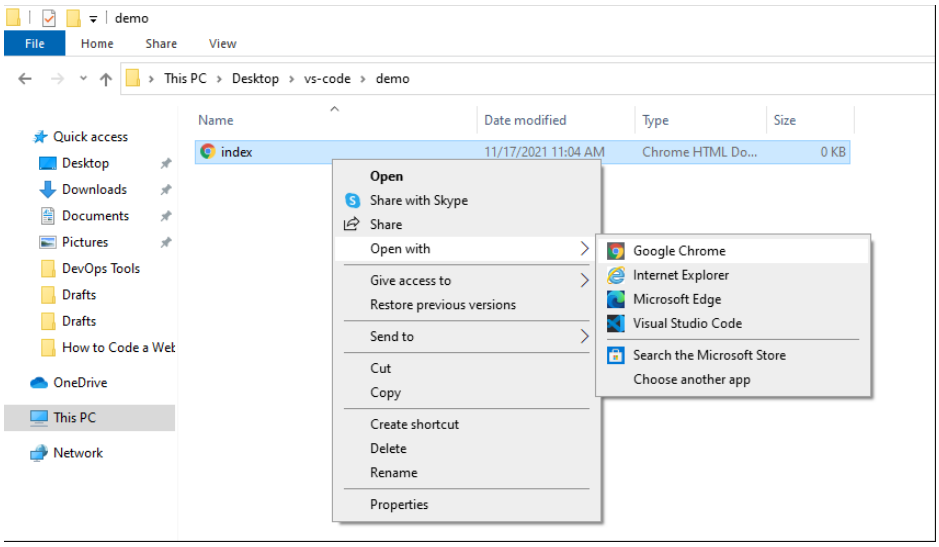
2. Write our Html code .

HTML stands for Hypertext Markup Language. If that doesn't make sense right now, don't worry. Focus less on the definition and more on this picture: we're building a house. The most natural place to start is with the foundation, walls, and roof because every house needs these before you worry about interior decorating or painting.
With HTML, we're able to build this structure for our website. This is a metaphor I use when I lead HTML and CSS trainings, so we'll repurpose it for this tutorial as well.



3. Check our work.

If you've made it this far, you're probably excited to see your hard work on the big screen (AKA web browser). The simplest way to do this is to return to your File Explorer and right click your HTML file:



Once you've selected your web browser of choice (I recommend Chrome, but any will work), you should see your HTML file displaying like it's a live web page. Don't worry, only you can see it for now.

4. Create Your CSS stylesheet .

We now have our house's structure. But you may have noticed that — like the clipart house graphic — our HTML is uniform and lacks color. We can see all of it, but clearly there's a lot more that can be done with HTML than its default display. We'll turn to CSS to give our "house" some flair.

5. Put Your CSS and HTML together.

For our CSS to affect our HTML, we need to tell the browser to apply the CSS. The process to do this is straightforward. We simply need to add a **<link>** element to our **<head>**.

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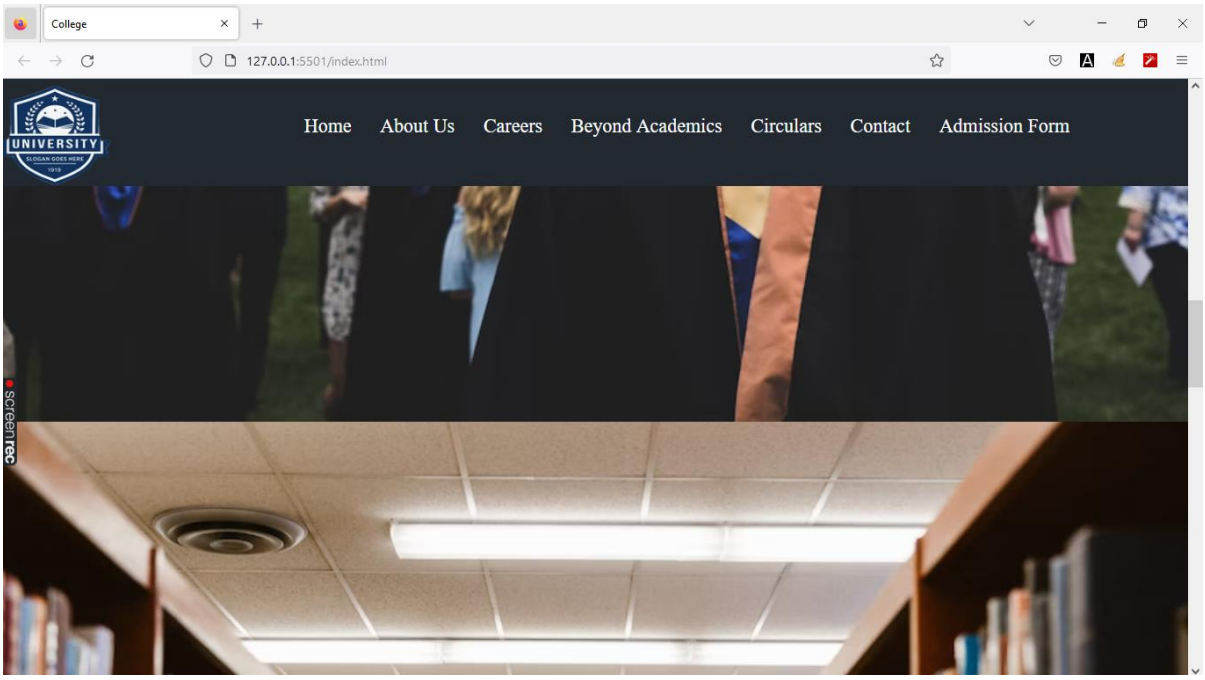
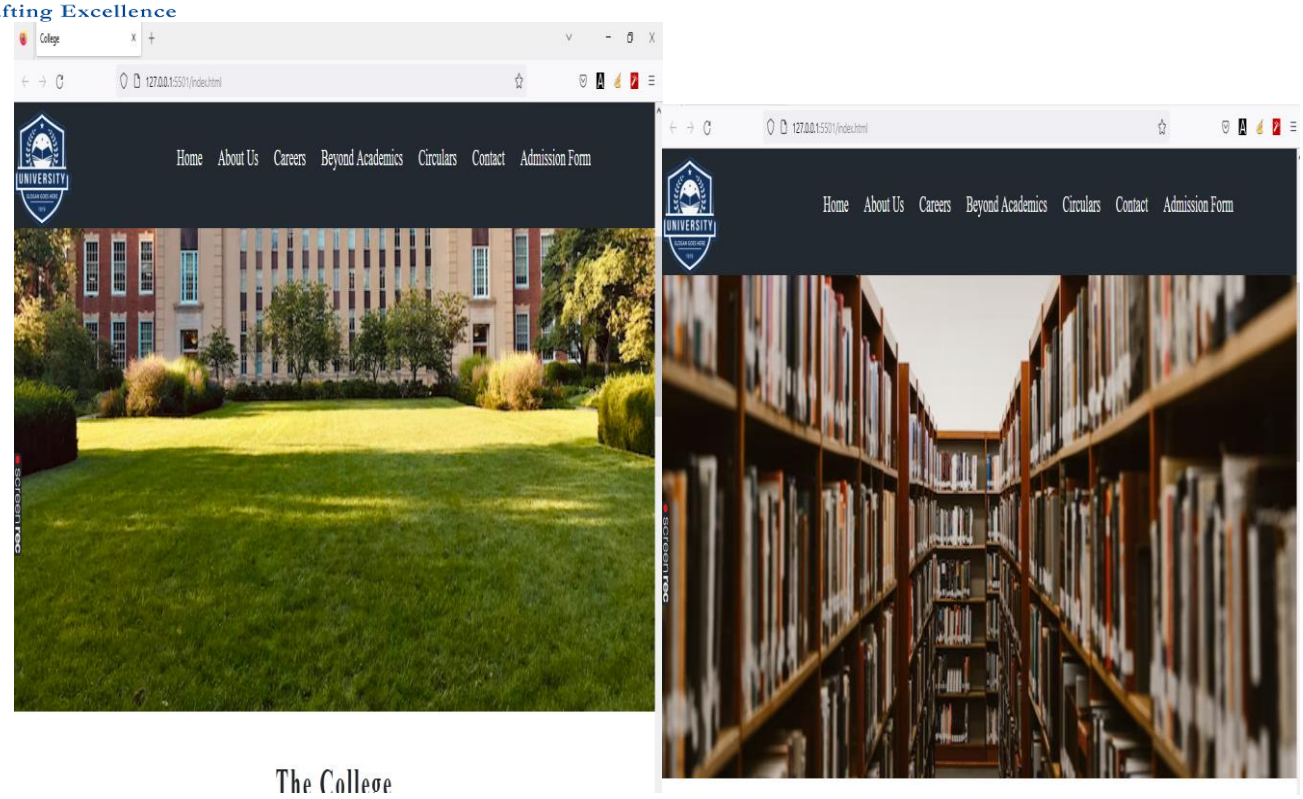


6. Adding JS to our Page.

The main method for adding JavaScript to our page is with the **script** tag which wraps around our program. This tells the browser that we are adding JavaScript to our page so our script isn't treated like more HTML. You can see this implemented below.



We put JS on image slider as images slides after some time automatically.

TESTING

SYSTEM TESTING

Testing is a set activity that can be planned and conducted systematically. Testing begins at the module level and work towards the integration of entire computers based system. Nothing is complete without testing, as it isvital success of the system.

- **Testing Objectives:**

There are several rules that can serve as testing objectives, they are

1. Testing is a process of executing a program with the intent of finding anerror

2. A good test case is one that has high probability of finding an undiscovered error.

3. A successful test is one that uncovers an undiscovered error.

If testing is conducted successfully according to the objectives as stated above, it would uncover

- **Testing Correctness**

The following ideas should be a part of any testing plan:

1. Preventive Measures
2. Spot checks
3. Testing all parts of the program
4. Test Data
5. Looking for trouble
6. Time for testing
7. Re Testing

The data is entered in all forms separately and whenever an error occurred, it is corrected immediately. A quality team deputed by the management verified all the necessary documents and tested the Software while entering the data at all levels. The entire testing process can be divided into 3 phases

1. Unit Testing
2. Integrated Testing
3. Final/ System testing

UNIT TESTING

As this system was partially GUI based WINDOWS application, the following were tested in this phase

1. Tab Order
2. Reverse Tab Order
3. Field length
4. Front end validations

In our system, Unit testing has been successfully handled. The test data was given to each and every module in all respects and got the desired output. Each module has been tested found working properly.

INTEGRATION TESTING

Test data should be prepared carefully since the data only determines the efficiency and accuracy of the system. Artificial data are prepared solely for testing. Every program validates the input data.

VALIDATION TESTING

In this, all the Code Modules were tested individually one after the other. The following

were tested in all the modules

1. Loop testing
2. Boundary Value analysis
3. Equivalence Partitioning Testing

In our case all the modules were combined and given the test data. The combined module works successfully with out any side effect on other programs. Everything was found fine working.

OUTPUT TESTING

This is the final step in testing. In this the entire system was tested as a whole with all forms, code, modules and class modules. This form of testing is popularly known as Black Box testing or system testing.

Black Box testing methods focus on the functional requirement of the software. That is, Black Box testing enables the software engineer to derive sets of input conditions that will fully exercise all functional requirements for a program. Black Box testing attempts to find errors in the following categories; incorrect or missing functions, interface errors, errors in data structures or external database access, performance errors and initialization errors and termination errors.

Results and Findings

The findings of the college website project concluded that the overall design and laust of the website was satisfactory. Users were able to easily access information, with some minor issues identified, such as difficulties in navigating between pages. The website was found to be user friendly, with a simple and straightforward design that made it easy to find content.

Overall, the project findings suggest that while there were still room for improvement in certain aspects of the website's structure and design, its user friendliness rated highly among college visitors. Additionally, it appears that users would like an easier way to access more comprehensive information about the college's programs and services.

Future Scope

The requirement of the user is to:

- Access/ Search information.
- Log in to the system through the first page of the application
- Change the password after logging the system
- View/change details.
- Can get help through the help option to view different property of the system.
- Students can give feedback for college/staff/any other student.
- An admin login should be present who can read as well as remove any uploads

Limitations

1. The website lacks a secure payment gateway which makes it impossible to conduct online payments for admission fees or any other form of payments.
2. The website cannot accurately track the user's journey throughout the entire site and provide personalized experience accordingly.
3. The website does not feature a comprehensive online library which can be used by the students, faculty, and staff.
4. There is no single platform on which all communication between the college faculty, staff, and students occurs in an organized manner.
5. It is hard to create an interactive dashboard where anyone can visualize relevant college data from different sources like courses offered, classes taken, fee structure etc., in easy understandable way unavailable at this moment.

Conclusion

We hope that this college website project has proved to be helpful and informative. This web project was made to provide users with an easy-to-use platform to learn more about the college, its offerings, and its services. Even after this project's completion, continuous updates will be made in order to provide a contemporary and relevant experience of discovering college information.

We would like to thank our teacher MRS Komal Dhingra and MR Arun Dabas for teaching Us and dedication during the making of this website. With their help, this website was created as comfortable browsing experience for all visitors. From academics, student life, alumni resources and more, we hope that this site can provide us with all the information us seek. Ready to take usr next step? Start by exploring what College has offer today! Thank us for being part of our story.

Refrence

A Smarter Way to Learn HTML and CSS [by Mark Myers] ...

https://www.codewithharry.com/videos/web-development-in-hindi-103/

https://www.ustube.com/watch?v=hKB-YGF14SY.

https://www.ustube.com/watch?v=hKB-YGF14SY\