A PROJECT SYNOPSIS

on

A PROTOTYPE WEBSITE 'VIDYA.COM'

Submitted By

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Under the Guidance of

PROF. SHRADDHA SUBHEDAR

Department of CSE in

Artificial Intelligence and Machine Learning

Saraswati Education Society's

SARASWATI COLLEGE OF ENGINEERING

Kharghar, Navi Mumbai

(Affiliated to University of Mumbai)

Academic Year: -2021-22

Saraswati College of Engineering, Kharghar

Vision

"To develop a core of eminency in Engineering Education and Research "

Mission

"To educate Students to become quality techno-crafts for taking up challenges in all facets of life "

Department of CSE
in Artificial Intelligence and Machine Learning

Vision

"To be among renowned institution in Computer Science Engineering (CSE) education and research by developing globally competent graduates."

Mission

1. To produce quality Engineering graduates by imparting quality training, hands on experience and value education.
2. To pursue research and new technologies in Computer Science Engineering and across interdisciplinary areas that extends the scope of Computer Engineering and benefit humanity.
3. To provide stimulating learning ambience to enhance innovative ideas, problem solving ability, leadership qualities, team-spirit and ethical responsibilities.

SARASWATI Education Society's
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CERTIFICATE

This is to certify that the requirements for the synopsis entitled, "*A Prototype Website'Vidya.com*"

Have been successfully completed by the following students:

Roll numbers	Name
41	TUSHAR MUNGEKAR
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In partial fulfillment of Sem –V **Bachelor of Engineering of Mumbai University, CSE(AIML)** of Saraswati college of Engineering, Kharghar during the academic year 2021-22.

Internal Guide
Prof. Shraddha Subhedar

External Examiner

Project coordinator
Prof. Shital Ajagekar

Head of Department
Prof. Shraddha Subhedar

Program Educational Objectives (PEO)

1. To apply statistical data analysis and other data science techniques to effectively solve real-world problems.
2. To motivate & prepare students for lifelong learning and research to manifest global competitiveness.
3. To equip students with communication, team work and leadership skills to accept challenges in all facets of life ethically.

Program Outcomes (PO)

At the end of the program, a student will be able to:

1. Apply the knowledge of Mathematics, Science and Engineering Fundamentals to solve complex Data Science Problems.
2. Identify, formulate and analyze Data analysis Problems and derive conclusion using First Principle of Mathematics, Engineering Science and Computer Science.
3. Investigate Complex Data Science problems to find appropriate solution leading to valid conclusion.
4. Design a data science model, process to meet specified needs with appropriate attention to health and Safety Standards, Environmental and Societal Considerations.
5. Create, select and apply appropriate techniques, resources and advance Engineering software to analyze tools and design for Data Science Problems.
6. Understand the Impact of Data Science solution on society and environment for Sustainable development.
7. Understand Societal, health, Safety, cultural, Legal issues and Responsibilities relevant to Engineering Profession.
8. Apply Professional ethics, accountability and equity in Engineering Profession.
9. Work Effectively as a member and leader in multidisciplinary team for a common goal.
10. Communicate Effectively within a Profession and Society at large.
11. Appropriately incorporate principles of Management and Finance in one's own Work.
12. Identify educational needs and engage in lifelong learning in a Changing World of Technology.

Program Specific Objectives (PSO)

1. Identify, understand, formulate and analyse complex engineering problems in the field of Data Analysis, Big Data, Database Management, Predictive Analysis, Trends Identification and Identifying Business Insights.

2. Acquire, Store, Retrieve, Process and finally convert data into knowledge in the field of artificial intelligence, data mining, network management and security, and Internet of Things applications through use of secure, reliable and cost effective state of art Analysis tools efficiently.

Lab Objectives:

Students will try to:

1. To acquaint with the process of identifying the needs and converting it into the problem.

2. To familiarize the process of solving the problem in a group.

3. To acquaint with the process of applying basic engineering fundamentals to attempt solutions to the problems.

4. To inculcate the process of self-learning and research.

Lab Outcomes:

Student will be able to:

1. Identify problems based on societal /research needs.

2. Apply Knowledge and skill to solve societal problems in a group.

3. Develop interpersonal skills to work as member of a group or leader.

4. Draw the proper inferences from available results through theoretical/ experimental/simulations.

5. Analyze the impact of solutions in societal and environmental context for sustainable development.

6. Use standard norms of engineering practices

7. Excel in written and oral communication.

8. Demonstrate capabilities of self-learning in a group, which leads to life long learning.

9. Demonstrate project management principles during project work.

A Prototype Website ‘Vidya.com’

ABSTRACT

Vidya.com is a website that will provide all college-related information. It is now essential in the current environment of any college where students may obtain all information before enrolling. This site provides all information such as students can easily get all information regarding their fee structure and location, especially for placement, because it is difficult to get the students informed during the campus so all students can easily get information and there are many other facilities that can easily get it. This website has been kept as simple as possible in order to minimize errors while entering data. The College Website, as stated above, can lead to an error-free, dependable, and rapid management system. We also attempted to make the website dynamic and interactive. It is simple to use.

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1. Introduction

Our website is a trustworthy source of information. The most recent information on the college may be found right here.

We give particular information for students interested in UG/PG programmes in Navi Mumbai's most popular academic subjects, such as engineering, medicine, and many more.

Education seekers on our platform enjoy a personalized experience based on their academic background and professional interests, allowing them to make educated decisions regarding their course and college selections.

Our website is a collection of Web pages, photos, and other digital assets housed on one or more Web servers and typically accessible by the Internet, smartphone, or LAN.

Our website has an appealing design and a correct arrangement of links and graphics, allowing a browser to quickly perceive and access the site's characteristics.

Several links are provided on the first page. The Home page offers a variety of information about the site, such as academic courses, amenities, and infrastructure.

2. Problem Statement

After completing secondary school, every student needs the greatest college. To select a suitable college, students must first acquire basic details about the college, such as the fee structure, courses offered, and so on, for which they must travel to distant institutions.

Choosing the right one can be challenging because of time constraints. Websites that are readily available to search are a bit complex and convoluted. There is a need to create a simple website that is easy to use and comprehend so as to provide an one-stop solution.

3. Proposed System

Every student needs the best college after completing high school. Students must first obtain basic information about the college, such as the fee structure, courses offered, and so on, for which they must go to distant institutions. Because of time limits, selecting the best one might be difficult. Websites that are easily searchable are quite sophisticated and intricate. This proposed system aims to provide college-related information like fee structure and location. It also aims to make the website interactive and dynamic. The College Website can lead to a management system that is error-free, trustworthy, fast and easy to access.

3.1 Literature Survey

The paper “An empirical study of CSS code smells in web framework” by author Tobias Bleisch speaks about Cascading Style Sheets (CSS) and its necessity to front-end web development for the specification of style. Even popular websites developed with web frameworks may contain CSS code smells such as duplicated rules and hard-coded values. Such code smells have the potential to cause adverse effects on websites and complicate maintenance. This thesis investigates the prevalence of CSS code smells in websites built with different web frameworks. it helps in training a classifier to predict which framework the website was built with, and perform various clustering tasks to gain insight into the relationship between code smells and metrics.

Authors Ch Rajesh, K S V Krishna Srikanth published the paper “Research on HTML5 in Web Development” in which they talk about the design of HTML5. It was designed to deliver rich content without the need for additional plug-ins and proprietary technologies. It can be used to build complicated web apps and also supports cross-platform platforms like Apple iOS and Microsoft Windows. The web is a resource that is widely and steadily usable across many platforms. Some vendors have developed their own proprietary technologies that provide more functionality than web standards. W3C is developing HTML5 with the help of the Web Hypertext Application Technology Working Group (WHATWG).

We also studied another paper “Website Design and User Engagement” by Renee Garett, Jason Chiu, Sean D Young. According to this paper, proper design has become a critical element needed to engage website and mobile application users. Little research has been conducted to define the specific elements used for effective design. This review may help designers and researchers operationalize best practices for facilitating and predicting user engagement. The design elements mentioned most frequently in the reviewed literature were navigation, graphical representation, organization, purpose, simplicity, and readability.

The article “Evolution of PHP Applications: A Systematic Literature Review” by author Douglas Kunda examines some of the studies done on the evolution of PHP applications that have been around for a long time and are widely utilized. PHP is now one of the most popular programming languages, extensively utilized to develop massive web-focused apps and application frameworks in both the open-source community and industry. This assessment examines how PHP programmes have progressed in terms of library usage, software maturity, object-oriented paradigm acceptance, complexity evolution, and security. The findings indicate that these systems are subjected to systematic maintenance and evolution, which aids the development of the underlying programming language.

Title	Year of Publication	Author	Description
An empirical study of CSS code smells in web frameworks [1]	2014	Tobias Bleisch	Styles, background image setting, class and ids, font family
Research on HTML5 in Web Development [2]	2018	Ch Rajesh, K S V Krishna Srikanth	Create containers and to structure the website
Website Design and User Engagement [3]	2018	Renee Garett, Jason Chiu , Sean D Young	Colour palettes
Evolution of PHP Applications: A Systematic Literature Review [4]	2017	Douglas Kunda	Connection and Query For Database

Fig 3.1: Literature Survey

3.2 Algorithm

The above algorithm illustrates the connection between a web page and a database, as well as how data is retrieved from the database. MYSQL Database is linked to a PHP script containing code through mysql_connect() and mysqli_select_db(). mysql_connect() links a PHP script to a localhost/MYSQL database. mysqli_select_db() allows choosing a database from localhost. The table from the database is then allocated to the query using the command "SELECT * from 'tablename';". It enables retrieving specific data from the table. mysqli_fetch_assoc() in PHP is used to search data from a table in a row as an associative array. A variable is assigned to each array of table. These variables are called when needed and the data is displayed on the webpage.

1. Start.

2. Connect to MYSQL with PHP Script.

    2.1 mysql_connect()

    2.2 mysqli_select_db()

3 Select the table from the database.

    3.1 $var=“SELECT*FROM ‘table name’”;

4 Get the data by mysqli_fetch_assoc().

5 Fetch row data and put then into HTML variable names.

    5.1 <?php echo $var; ?>

6 Convert data types for displaying on the web page.

7 Close connection database.

8 END

3.3 Block Diagram

At first, http request is sent to the web browser from the client-side device for visiting our website, then the web browser requests the respective web page from the web server.

According to further steps taken by the user, the website will respond for Example - if the user searches for any college in engineering category the code will connect the page to the database having list of colleges through PHP connection and retrieve the data from it and it will return to the web server and hence to the web browser and user.

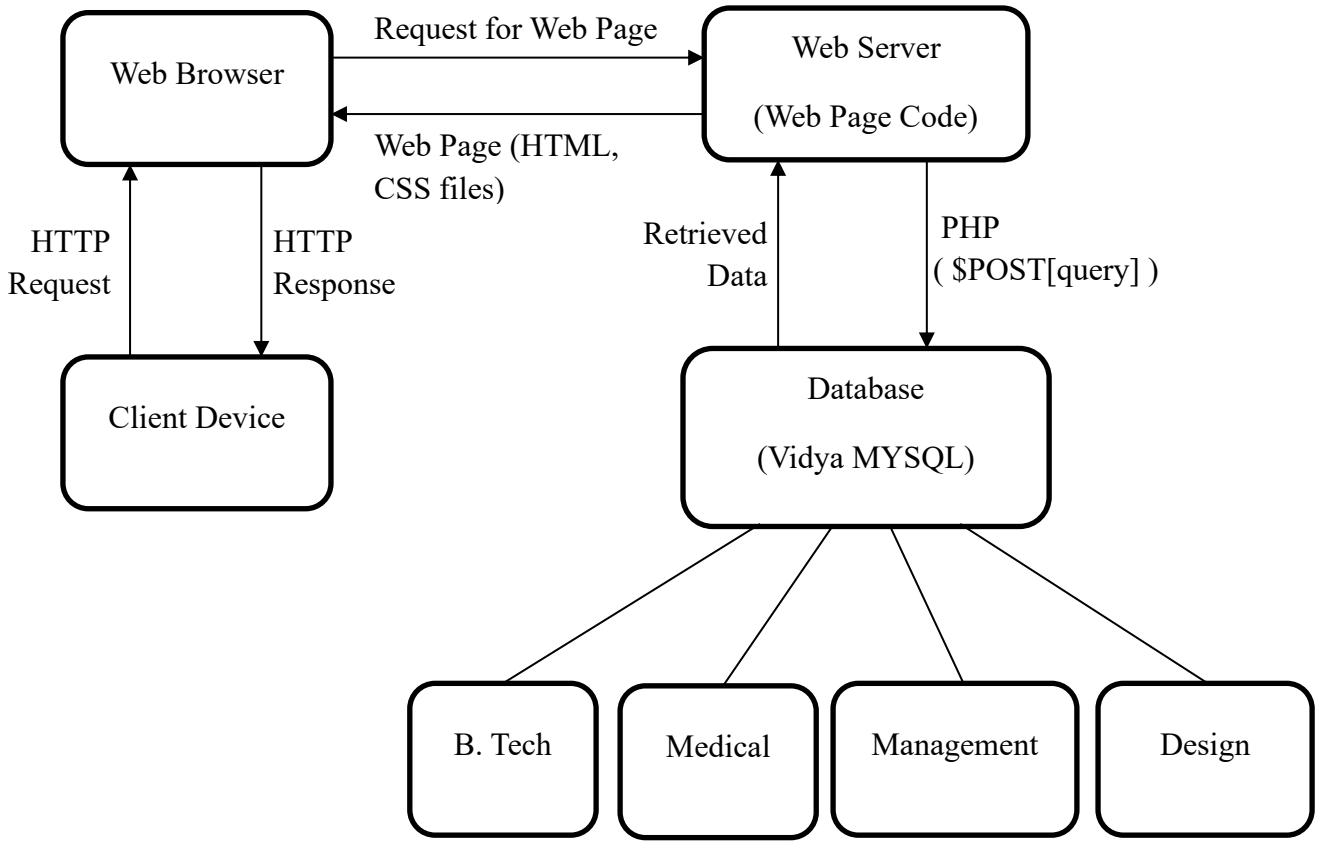

Fig 3.2: Working of Website

3.4 Flow of Website

The main layout of the website is represented in the figure below. It demonstrates the proper order in which tabs are connected to one another.

The Home Tab is the first page you see when you access the website. The home tab has a search bar, a navigation bar, and details about this website. There are four menus displayed on the navbar: Engineering, Medical, Design, and MBA. You will be taken to the related tab page when you click on this menu. All the colleges associated to that field are listed on these pages. By clicking the button on a certain college's card, you can learn more about that institution.

On the other side, a user can use the search bar if they wish to look for a specific college. It will lead them to the website for the mentioned college. It makes the process easier and saves time.

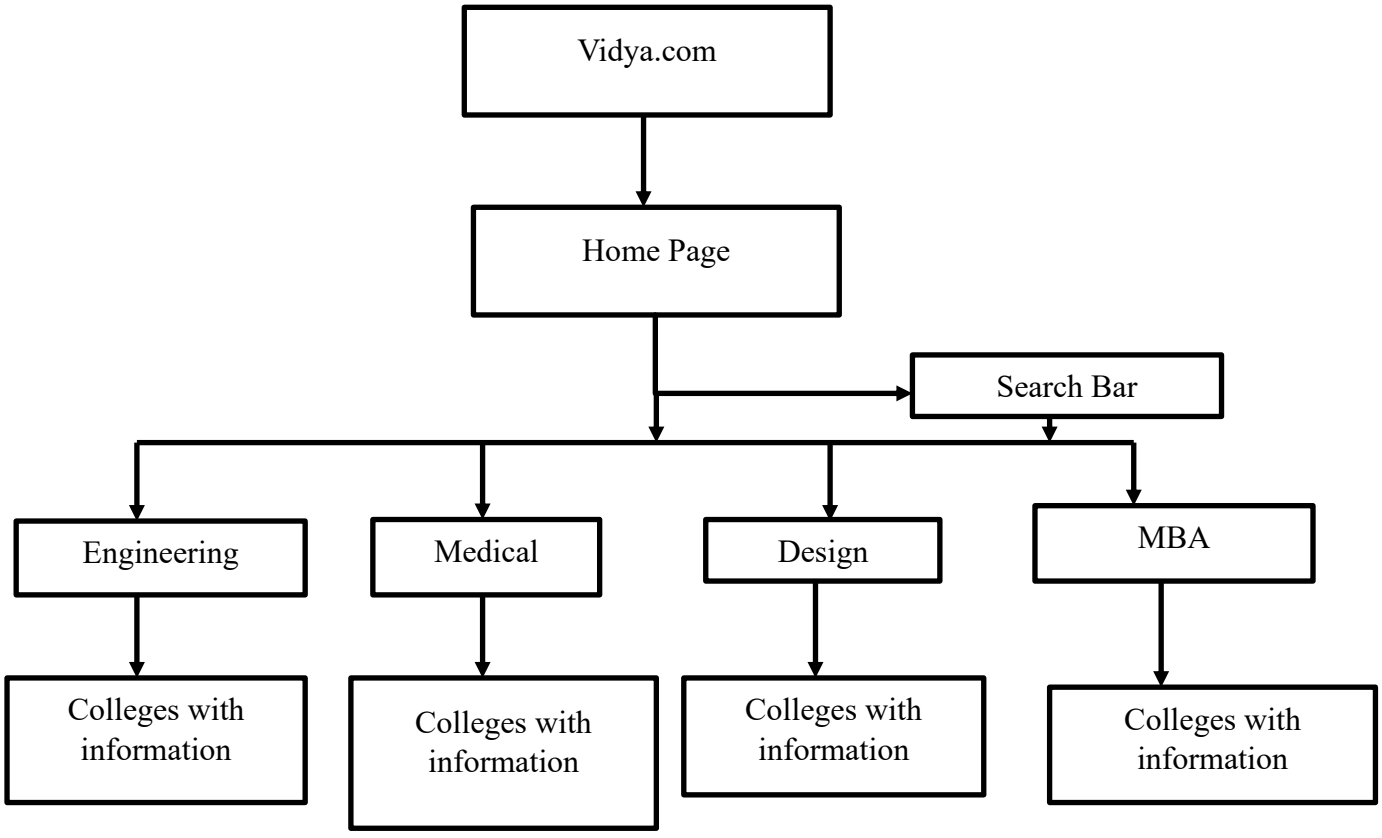

Fig 3.3: Flow of Website

4. Code

```
<?php
//get the search keyword
$search = $_POST['search'];
//SQL qurry to get list of colleges
$sql = "SELECT * FROM design WHERE college LIKE '%$search%'";
//execute query
$res = mysqli_query($conn, $sql);
//count rows
$count = mysqli_num_rows($res);
///check wheter college info avilable or not
if ($count > 0) {
   //college avilable
   while ($row = mysqli_fetch_assoc($res)) {
      //get details
      $id = $row['id'];
      $college = $row['college'];
      $location = $row['location'];
      $type = $row['type'];
      $Nacc = $row['Nacc_accreditation'];
      $info = $row['info'];
      $logo = $row['logo'];
      $placement = $row['placement'];
      $facility = $row['facility'];
      $fees = $row['fees'];
      $img = $row['img'];
      $link = $row['link'];
?>
      <div class="container">
         <div class="card mb-3">
            <div class="card text-bg-dark">
               <img src="img\DESIGN\<?php echo $img; ?>" class="card-img" id="top-img" alt="..."
height="250px">
               <div class="card-img-overlay">
```

```
            <img src="img\DESIGN\<?php echo $logo; ?>" id="logo" alt="...">
            <h1 class="card-title" id="name"><?php echo $college; ?></h1>
          </div>
        </div>
      </div>
      <!-- header ends here -->
      <div class="card-body">
        <div id="info">
          <h1 class="card-title">Information</h1>
          <p class="card-text"><?php echo $info; ?></p>
          <p class="card-text"><small class="text-muted">
              <span>
                <span class="badge text-bg-secondary">Location: <?php echo $location; ?></span>
              </span>
              <span>
                <span class="badge text-bg-secondary">NACC Accreditation: <?php echo $Nacc;
?></span>
              </span>
              <span>
                <span class="badge text-bg-secondary">Type: <?php echo $type; ?></span>

              </span>
              <span>
                <span class="badge text-bg-secondary">Fees: <?php echo $fees; ?></span>
              </span>
            </small></p>
        </div>
        <span id="dots">...</span><span id="more">
          <h1 class="card-title">Courses</h1>
          <!--<p class="card-text">National Institute of Fashion Technology (NIFT), Mumbai established
in the year 1995.It is an institution of design, management and technology for the international fashion
brand. The institute located in Mumbai, which is the gateway to Fashion World in the country.</p>-->
          <span class="badge text-bg-secondary">B. Designing</span>
          <span class="badge text-bg-secondary">M. Designing</span>
          <h1 class="card-title">Facility</h1>
```

```
            <p class="card-text"><?php echo $facility; ?></p>
            <h1 class="card-title">Placement</h1>
            <p class="card-text"><?php echo $placement; ?></p>
          </span>
          <a href="<?php echo $link; ?>" class="btn btn-primary">Go to College Website</a>
          <button class="btn btn-primary" onclick="myFunction()" id="myBtn"> Show more</button>
        </div>
      </div>
<?php
   }
} else {
   //college not avilable
   echo "<div class='error'>college not found.</div>";
}
?>
```

Database connection and page container code

```php
<?php
//get the search keyword
$search = $_POST['search'];
//SQL qurry to get list of colleges
$sql = "SELECT * FROM design WHERE college LIKE '%$search%'";
//execute query
$res = mysqli_query($conn, $sql);
//count rows
$count = mysqli_num_rows($res);
///check wheter college info avilable or not
if ($count > 0) {
   //college avilable
   while ($row = mysqli_fetch_assoc($res)) {
      //get details
      $id = $row['id'];
      $college = $row['college'];
      $location = $row['location'];
      $type = $row['type'];
      $Nacc = $row['Nacc_accreditation'];
      $info = $row['info'];
      $logo = $row['logo'];
      $placement = $row['placement'];
      $facility = $row['facility'];
      $fees = $row['fees'];
      $img = $row['img'];
      $link = $row['link'];
?>
```

```
<div class="container">
  <div class="card mb-3">
    <div class="card text-bg-dark">
      <img src="img\DESIGN\<?php echo $img; ?>" class="card-img" id="top-img" alt="..." height="250px">
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      </div>
    </div>
  </div>
  <!-- header ends here -->
  <div class="card-body">
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      <h1 class="card-title">Information</h1>
      <p class="card-text"><?php echo $info; ?></p>
      <p class="card-text"><small class="text-muted">
          <span>
            <span class="badge text-bg-secondary">Location: <?php echo $location; ?></span>
          </span>
          <span>
            <span class="badge text-bg-secondary">NACC Accreditation: <?php echo $Nacc; ?></span>
          </span>
          <span>
            <span class="badge text-bg-secondary">Type: <?php echo $type; ?></span>
          </span>
          <span>
            <span class="badge text-bg-secondary">Fees: <?php echo $fees; ?></span>
```

```
                </span>
              </small></p>
            </div>
            <span id="dots">...</span><span id="more">
              <h1 class="card-title">Courses</h1>
              <!--<p class="card-text">National Institute of Fashion Technology (NIFT), Mumbai established in the year 1995.It is an institution of design, management and technology for the international fashion brand. The institute located in Mumbai, which is the gateway to Fashion World in the country.</p>-->
              <span class="badge text-bg-secondary">B. Designing</span>
              <span class="badge text-bg-secondary">M. Designing</span>
              <h1 class="card-title">Facility</h1>
              <p class="card-text"><?php echo $facility; ?></p>
              <h1 class="card-title">Placement</h1>
              <p class="card-text"><?php echo $placement; ?></p>
            </span>
            <a href="<?php echo $link; ?>" class="btn btn-primary">Go to College Website</a>
            <button class="btn btn-primary" onclick="myFunction()" id="myBtn"> Show more</button>
          </div>
        </div>
<?php
    }
} else {
    //college not avilable
    echo "<div class='error'>college not found.</div>";
}
?>
```

Search Bar connection and page container code

5. Results

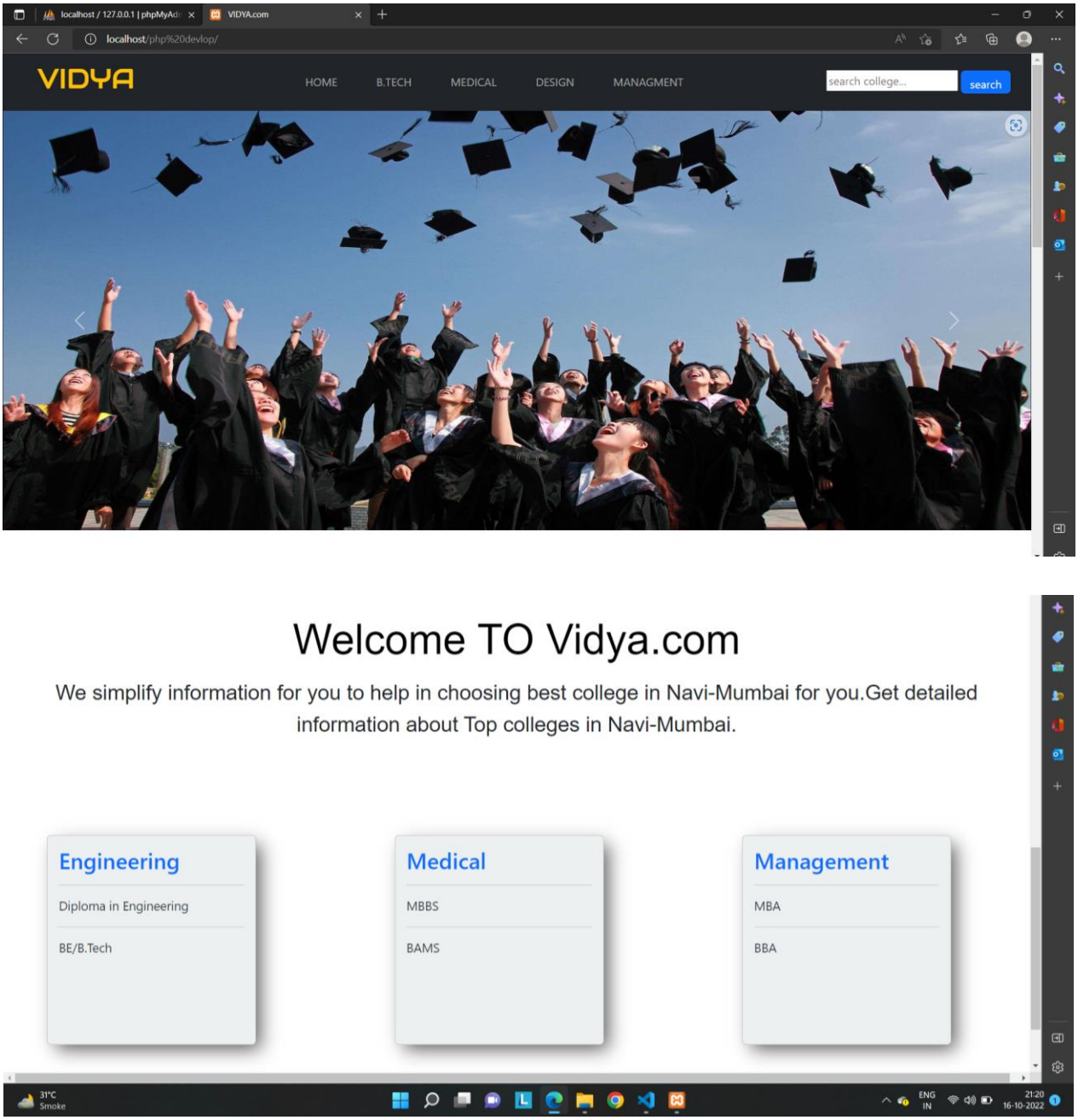

Fig 5.1: Home Page

Above figure shows Home page of Vidya.com. Home page consists of navigation bar having tabs that link to pages. It also consists small introduction to our website.

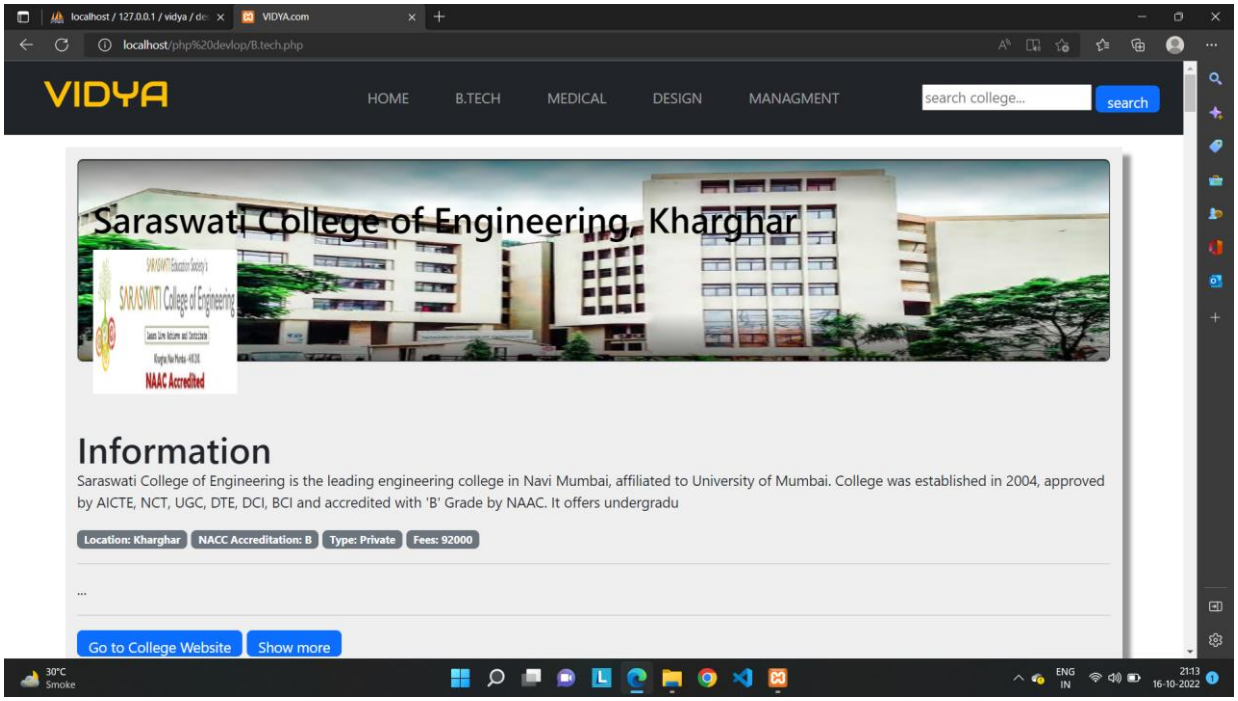

Fig 5.2: B.Tech Tab

Above figure shows web page after clicking particular course tab (B.Tech in above figure) that contains list of all the colleges related to that field.

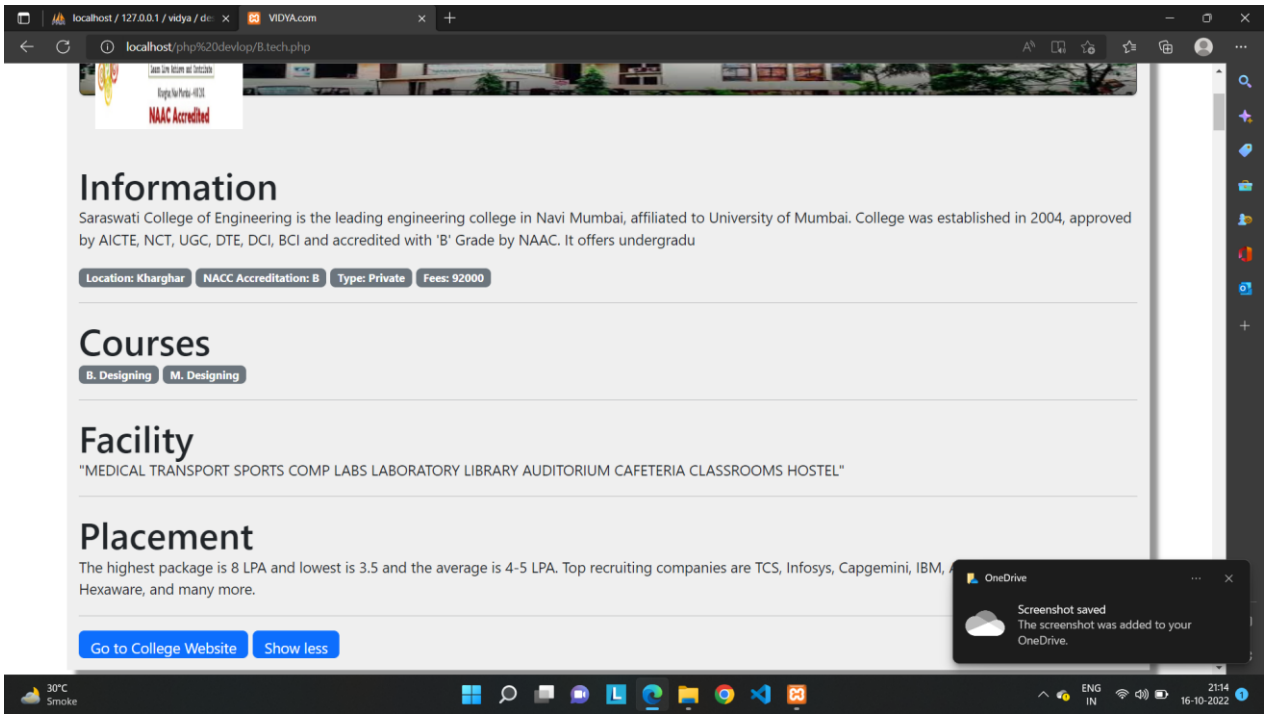

Fig 5.3: B.Tech Tab

Above figure shows the functionality of ‘show more’ button which when clicked shows complete information about that specific college.

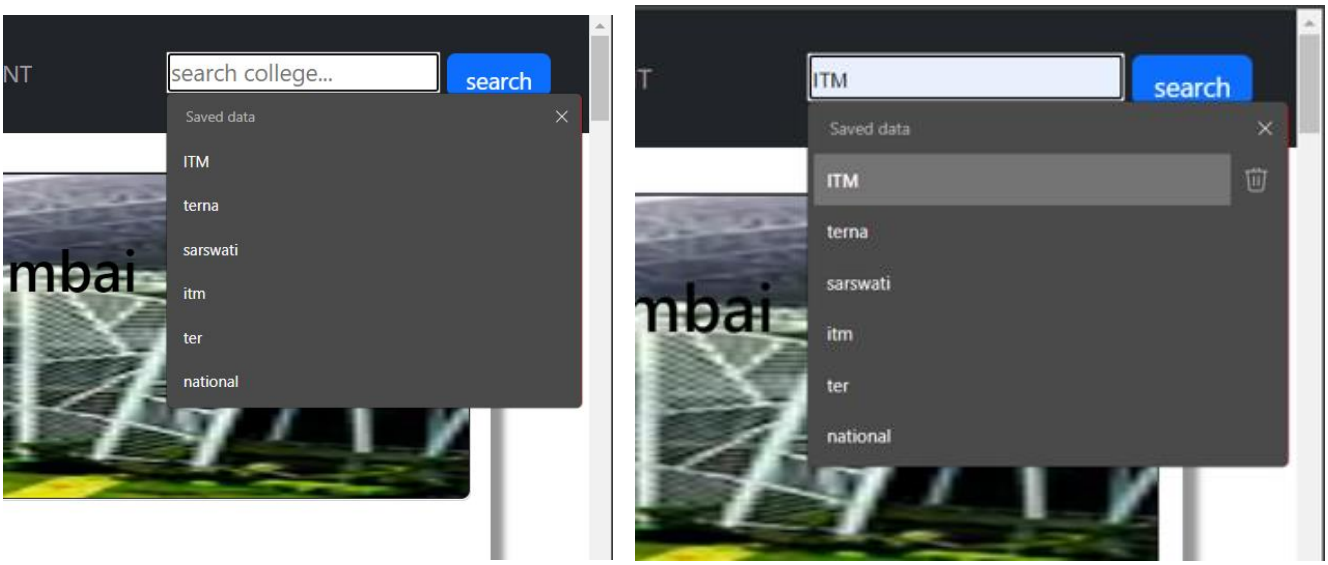

Fig 5.4: Search Bar

Above figure shows search bar displaying previous search history. Using related keywords any college tab can be directly accessed.

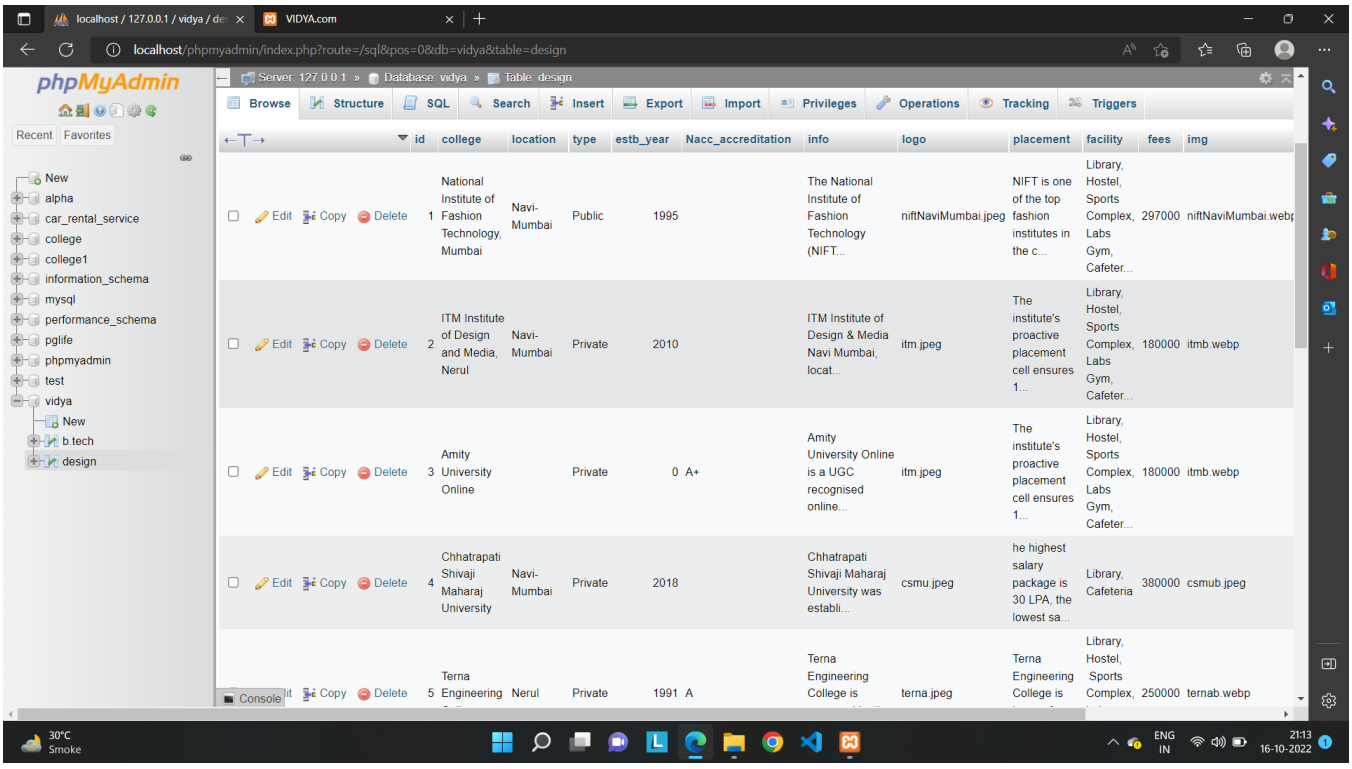

Fig 5.5: Database

Above figure shows database of website from which requested data is fetched and displayed on website. This database contains all required information about colleges.

6. Conclusion

Our website Vidya.com contains all the information a student needs to be aware of before admission, assisting them in selecting the right institution for them. Our website provides easy and time saver solutions for the student to analyze the different institutes.Our project will be beneficial to all individuals to choose best suitable college for them.

7. References

1] Tobias Bleisch, "An empirical study of CSS code smells in web frameworks", Faculty of California Polytechnic State University, San Luis Obispo, 2018.

2] Ch Rajesh, K S V Krishna Srikanth, "Research on HTML5 in Web Development", IJCSIT International Journal of Computer Science and Information Technologies, Vol. 5 (2) , 2014, 2408-2412.

3] Renee Garett, Jason Chiu, Sean D Young, "Website Design and User Engagement", J Commun Media Technol, 2016 July.

4] Douglas Kunda, "Evolution of PHP Applications: A Systematic Literature Review", International Journal of Recent Contributions from Engineering Science & IT (iJES), Vol. 5, No. 1, 2017

5] https://data.gov.in/catalog/list-colleges-aishe-survey

6] https://github.com/JacobSamro/colleges-api

7] https://ijcsit.com/docs/Volume%205/vol5issue02/ijcsit20140502328.pdf

8] https://smallbusiness.chron.com/database-52268.html

9] https://www.formget.com/read-mysql-data-using-php/

10] https://www.instagram.com/p/CjQRUUvDLtH/?igshid=MDJmNzVkMjY=

Acknowledgment

A project is something that could not have been materialized without the cooperation of many people. This project shall be incomplete if I do not convey my heartfelt gratitude to those people from whom I have got considerable support and encouragement.

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We would like to express our deepest gratitude to **Dr. Manjusha Deshmukh,** our principal of Saraswati College of Engineering, Kharghar, Navi Mumbai.

Last but not least I would also like to thank all the staff of Saraswati College of Engineering (CSE AIML Department) for their valuable guidance with their interest and valuable suggestions that brightened us.

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