COLLEGE PREDICTOR WEBSITE

PROJECT REPORT

Submitted by

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SCHOOL OF COMPUTING

FACULTY OF ENGINEERING AND TECHNOLOGY

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University u/s 3 of UGC Act, 1956)

KATTANKULATHUR - 603 203

INTRODUCTION

College Admission Predictor System is a web based application system in which students can register their marks along with their personal information. This helps to predict their admissions in colleges. Administrators can add the college details and the batch details. Using this Application, the entrance seat allotment becomes easier and efficient. The main advantage of the project is the computerization of the entrance seat allotment process. Administrator has the power for the allotment. Admin can add the allotted seats into a file and the details are saved into the system. The total time for the entrance allotment becomes lower and the allotment process becomes faster. It helps students to make the right decisions for choosing their college. In which students can register with their personal as well as mark details to predict the admission in colleges and the administrator can allot the seats for the students. Administrators can add the college details and the batch details. Using this Application, the entrance seat allotment became easier and can be implemented using a system. The main advantage of the project is the computerization of the entrance seat allotment process. Administrator has the power for the allotment. Admin can add the allotted seats into a file and the details are saved into the system. The total time for the entrance allotment became lesser and the allotment process became faster. It helps students make decisions for choosing the right college.

IMPLEMENTATION DETAILS

FRONT END



HTML

Hypertext Markup Language (HTML) is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by tags, written using angle brackets. Tags such as <imp /> and <input /> directly introduce content into the page. Other tags such as surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags, but use them to interpret the content of the page.

HTML can embed programs written in a scripting language such as JavaScript, which affects the behavior and content of web pages. Inclusion of CSS defines the look and layout of content. The World Wide Web Consortium (W3C), former maintainer of the HTML and current maintainer of the CSS standards, has encouraged the use of CSS over explicit presentational HTML since 1997.





Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language like HTML.CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file, and reduce complexity and repetition in the structural content.

CSS information can be provided from various sources. These sources can be the web browser, the user and the author. The information from the author can be further classified into inline, media type, importance, selector specificity, rule order, inheritance and property definition. CSS style information can be in a separate document or it can be embedded into an HTML document. Multiple style sheets can be imported. Different styles can be applied depending on the output device being used; for example, the screen version can be quite different from the printed version, so that authors can tailor the presentation appropriately for each medium. The style sheet with the highest priority controls the content display. Declarations not set in the highest priority source are passed on to a source of lower priority, such as the user agent style. The process is called cascading.

One of the goals of CSS is to allow users greater control over presentation. Someone who finds red italic headings difficult to read may apply a different style sheet. Depending on the browser and the web site, a user may choose from various style sheets provided by the designers, or may remove all added styles and view the site using the browser's default styling, or may override just the red italic heading style without altering other attributes.

JavaScript {;}

JavaScript s a high-level, interpreted scripting language that conforms to the ECMAScript specification. JavaScript has curly-bracket syntax, dynamic typing, prototype-based object-orientation, and first-class functions. Alongside HTML and CSS, JavaScript is one of the core technologies of the World Wide Web.JavaScript enables interactive web pages and is an essential part of web applications. The vast majority of websites use it, and major web browsers have a dedicated JavaScript engine to execute it. As a multi-paradigm language, JavaScript supports event-driven, functional, and imperative (including object-oriented and prototype-based) programming styles. It has APIs for working with text, arrays, dates, regular expressions, and the DOM, but the language itself does not include any I/O, such as networking, storage, or graphics facilities. It relies upon the host environment in which it is embedded to provide these features.

Initially only implemented client-side in web browsers, JavaScript engines are now embedded in many other types of host software, including server-side in web servers and databases, and in non-web programs such as word processors and PDF software, and in runtime environments that make JavaScript available for writing mobile and desktop applications, including desktop widgets.

The terms Vanilla JavaScript and Vanilla JS refer to JavaScript not extended by any frameworks or additional libraries. Scripts written in Vanilla JS are plain JavaScript code.Google's Chrome extensions, Opera's extensions, Apple's Safari 5 extensions, Apple's Dashboard Widgets, Microsoft's Gadgets, Yahoo! Widgets, Google Desktop Gadgets, and Serence Klipfolio are implemented using JavaScript.

BACK END



PHP

PHP is a server side scripting language that is used to develop Static websites or Dynamic websites or Web applications. PHP stands for Hypertext Pre-processor, that earlier stood for Personal Home Pages. PHP scripts can only be interpreted on a server that has PHP installed. The client computers accessing the PHP scripts require a web browser only. A PHP file contains PHP tags and ends with the extension ".php".

The term PHP is an acronym for PHP: Hypertext Preprocessor. PHP is a server-side scripting language designed specifically for web development. PHP can be easily embedded in HTML files and HTML codes can also be written in a PHP file. The thing that differentiates PHP with client-side language like HTML is, PHP codes are executed on the server whereas HTML codes are directly rendered on the browser.

PHP: Hypertext Preprocessor (or simply PHP) is a general-purpose programming language originally designed for web development. It was originally created by Rasmus Lerdorf in 1994.PHP code may be executed with a command line interface (CLI), embedded into HTML code, or used in combination with various web template systems, web content management systems, and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in a web server or as a Common Gateway Interface (CGI) executable. The web server outputs the results of the interpreted and executed PHP code, which may be any type of data, such as generated HTML code or binary image data. PHP can be used for many programming tasks outside of the web context, such as standalone graphical applications and robotic drone control.



MySQL

MySQL is an open source relational database management system (RDBMS) based on Structured Query Language (SQL). It is one part of the very popular LAMP platform consisting of Linux, Apache, My SQL, and PHP. Currently My SQL is owned by Oracle. My SQL database is available on most important OS platforms. It runs on BSD Unix, Linux, Windows, or Mac OS. Wikipedia and YouTube use My SQL. These sites manage millions of queries each day. My SQL comes in two versions: My SQL server system and My SQL embedded system.

RDBMS TERMINOLOGY

A few definitions related to databases.

- Database: A database is a collection of tables, with related data.
- Table: A table is a matrix with data. A table in a database looks like a simple spreadsheet.
- Column: One column (data element) contains data of one and the same kind, for example the column postcode.
- Row: A row (= tuple, entry or record) is a group of related data, for example the data of one subscription.
- Redundancy: Storing data twice, redundantly to make the system faster.
- Primary Key: A primary key is unique. A key value cannot occur twice in one table. With a key, you can find at most one row.
- Foreign Key: A foreign key is the linking pin between two tables.
- Compound Key: A compound key (composite key) is a key that consists of multiple columns, because one column is not sufficiently unique.
- Index: An index in a database resembles an index at the back of a book.
- Referential Integrity: Referential Integrity makes sure that a foreign key value always points to an existing row.

index.php

```
<?php
   session start();
  if(isset($ SESSION['username']))
       unset($ SESSION['username']);
   session destroy();
?>
<!DOCTYPE html>
<html>
  <head>
       <title>College Shiksha</title>
       <link rel="stylesheet" type="text/css" href="Login.css">
       <link href="https://fonts.googleapis.com/css?family=Quicksand&display=swap"</pre>
rel="stylesheet">
       <link rel="stylesheet" type="text/css"</pre>
href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css"
   </head>
   <body>
       <div>
           <div class="form" id="login">
               <div class="box">
                   <h3>LOGIN</h3>
                   <div class="social-container">
                        <a href="#"><i class="fa fa-facebook"
aria-hidden="true"></i></a>
                        <a href="#"><i class="fa fa-google-plus"
aria-hidden="true"></i></a>
                       <a href="#"><i class="fa fa-linkedin"
aria-hidden="true"></i></a>
                   </div>
                   <div>
                       <?php
                            function test_input($data)
                            {
                                $data=trim($data);
                                $data=stripcslashes($data);
                                $data=htmlspecialchars($data);
                                return $data;
                            if(isset($_POST['login']))
```

```
session start();
                                $username=$password="";
                                if($ SERVER["REQUEST METHOD"] == "POST")
                                    $username = test_input($_POST['Username']);
                                    $password = test_input($_POST['Password']);
                                    $link = mysqli connect("localhost", "root", "");
                                    if (mysqli connect errno()) {
                                        printf("Connect failed: %s\n",
mysqli connect error());
                                        exit();
                                    mysqli select db($link,"test");
                                    $results=mysqli query($link,"select * from
usertable where Username='$username' and Password='$password'") or die("failed to
connect".mysqli connect error());
                                    $row=mysqli fetch array($results);
                                    if ($row['Username'] == $username &&
$row['Password'] == $password) {
                                        header("location:
http://localhost/college/home.php");
                                        $ SESSION['username'] = $username;
                                        $ SESSION['mes'] = "true";
                                    else {
                                        echo "Login failed";
                                    }
                                    mysqli close($link);
                                }
                            }
                   </div>
                   <form action="index.php" method="POST">
                       <input class="input" type="text" name="Username"</pre>
placeholder="Username" required><br>
                       <input class="input" type="password" name="Password"</pre>
placeholder="Password" required><br>
                       <input class="button" type="submit" name="login"</pre>
value="LOGIN"><br>
                       <a class="button" id="oksignup" href="#">Sign Up here</a> |
<a class="button" id="forgotpass" href="#" onclick="forgpw()">Forgot Password?</a>
                   </form>
```

```
</div>
           </div>
           <div class="form reg" id="signup">
               <div class="box">
                   <h3>SIGN UP</h3>
                   <div class="social-container">
                       <a href="#"><i class="fa fa-facebook"
aria-hidden="true"></i></a>
                       <a href="#"><i class="fa fa-google-plus"
aria-hidden="true"></i></a>
                       <a href="#"><i class="fa fa-linkedin"
aria-hidden="true"></i></a>
                   </div>
                   <?php
                       if(isset($_POST['signup']))
                           $usernameSub=$password1=$password2="";
                           if($ SERVER["REQUEST METHOD"] == "POST")
                               $usernameSub = test_input($_POST['Username']);
                               $password1 = test_input($_POST['Password']);
                               $password2 = test input($_POST['ConfirmPassword']);
                               $link = mysqli connect("localhost", "root", "");
                               if (mysqli connect errno()) {
                                   printf("Connect failed: %s\n",
mysqli_connect_error());
                                   exit();
                               }
                               if(empty($usernameSub))
                                   array push($error, "Please fill username");
                               if(empty($password1))
                                   array push($error, "Please fill password");
                               if (empty ($password2))
                                   array_push($error, "Please fill confirm
password");
                               if($password1 != $password2)
                                   echo "Password's don't match";
                               else if($password1 == $password2)
                                   mysqli_select_db($link,"test");
```

```
$results=mysqli query($link,"insert into
usertable(Id,Username,Password)    values(8,'$usernameSub','$password1');")    or
die("failed to connect".mysqli connect error());
                                    header('localhost: http://localhost/college/');
                                    echo "Data Stored" ;
                                mysqli close($link);
                            }
                        }
                   ?>
                   <form action="index.php" method="POST">
                       <input class="input" type="text" id="email" name="Username"</pre>
placeholder="Username" required><br>
                       <input class="input" type="password" name="Password"</pre>
placeholder="Password" required><br>
                        <input class="input" type="password" name="ConfirmPassword"</pre>
placeholder="Confirm Password" required><br>
                       <input class="button" type="submit" name="signup" value="SIGN</pre>
UP" onclick="validate()"><br>
                        <a id="oklogin" class="button" href="#">Login Here</a>
                   </form>
               </div>
           </div>
           <div class="form reg" id="forgotpw" style="display: none;">
               <div class="box">
                   <h3>FORGOT PASSWORD</h3>
                   <?php
                       if(isset($ POST['forgot']))
                            $usernameSub1=$password1a=$password2a="";
                            if($ SERVER["REQUEST METHOD"] == "POST")
                                $usernameSub1 = test_input($_POST['Username1']);
                                $password1a = test_input($_POST['Password1']);
                                $password2a = test_input($_POST['ConfirmPassword1']);
                                $link = mysqli connect("localhost", "root", "");
                                if (mysqli_connect_errno()) {
                                    printf("Connect failed: %s\n",
mysqli connect error());
                                    exit();
                                }
                                if(empty($usernameSub1))
```

```
array push($error, "Please fill username");
                                if (empty ($password1a))
                                    array push($error, "Please fill password");
                                if(empty($password2a))
                                    array push ($error, "Please fill confirm
password");
                                if($password1a != $password2a)
                                    echo "Password's don't match";
                                else if($password1a == $password2a)
                                    mysqli select db($link,"test");
                                    $results=mysqli query($link,"UPDATE usertable SET
Password = '$password1a' WHERE Username = '$usernameSub1'") or die("failed to
connect".mysqli connect error());
                                    header('localhost: http://localhost/college/');
                                    echo "Data Stored" ;
                                mysqli close($link);
                            }
                        }
                   ?>
                   <form action="#" method="POST">
                        <input class="input" type="text" name="Username1"</pre>
placeholder="Username" required><br>
                       <input class="input" type="password" name="Password1"</pre>
placeholder="New Password" required><br>
                       <input class="input" type="password" name="ConfirmPassword1"</pre>
placeholder="Confirm Password" required><br>
                       <input class="button" type="submit" name="forgot"</pre>
value="FORGOT PASSWORD"><br>
                       <a id="oklogin" class="button" href="#">Login Here</a>
                   </form>
               </div>
           </div>
       <script src="http://code.jquery.com/jquery-3.3.1.min.js"</pre>
           integrity="sha256-FgpCb/KJQ1LNfOu91ta32o/NMZx1twRo8QtmkMRdAu8="
           crossorigin="anonymous">
       </script>
       <script type="text/javascript" src="Login.js"></script>
       <script type="text/javascript" src="validation.js"></script>
   </body>
(/html>
```

colleges.php

```
<?php session start(); ?>
<!DOCTYPE html>
<html>
  <head>
      <link rel="stylesheet" type="text/css" href="colleges.css">
      <link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-gg0yR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQU0hcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">
      <link rel="icon" type="x-icon" href="jagran logo1.jpg">
      <link href="https://fonts.googleapis.com/css?family=Quicksand&display=swap"</pre>
rel="stylesheet">
      <link rel="stylesheet" type="text/css"</pre>
href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css"
      <title>College Sikhsha</title>
      <style>
</style>
  </head>
  <body>
          <h3>Advertisment</h3>
          Click on the <a href="https://www.geeksforgeeks.org/">link </a> to
check various resoruces related to Computer Science Stream and Courses
          <h3>NIRF Rankings</h3>
          Click on the <a href="https://www.nirfindia.org/engg">link </a> to
check the ranking for the desired college
          <h3>Link To Colleges</h3>
          <a href="https://www.srmist.edu.in/">SRM IST</a>
          <a href="https://vit.ac.in/">VIT</a>
      </aside>
      <nav class="navbar sticky-top navbar-expand-sm navbar-dark bg-dark">
          <a class="nav-link" href="home.php">Home</a>
              <a class="nav-link" href="index.php">Not <?php</pre>
                 if(isset($ SESSION['username']))
                     echo $ SESSION['username'];
                  }
```

```
?>? Logout</a>
               </nav>
      <div class="background">
           <i class="fa fa-quote-left"></i>Nothing in this world can take the
place of persistence. Talent will not: nothing is more common than unsuccessful men
with talent. Genius will not; unrewarded genius is almost a proverb. Education will
not: the world is full of educated derelicts. Persistence and determination alone are
omnipotent.
      </div>
      <div class="background">
          <h3>Colleges</h3>
          <article><h2>SRM Institute of Science and Technology</h2>It is a deemed
university located in Kattankulathur, Chengalpattu, Tamil Nadu, India, near Chennai.
It was founded in 1985 as SRM Engineering College in Kattankulathur, under University
of Madras. SRM Institute of Science and Technology includes six campuses, three in
Tamil Nadu — Kattankulathur, Ramapuram and Vadapalani, one in NCR Delhi, one in
Sikkim and one in Amaravati. And there are about 50,000 students studying in SRM
College.
          The institute gained deemed status during the 2003-2004 academic year and
was renamed SRM Institute of Science and Technology. It became SRM University in 2006
following permission by the UGC for 'Deemed to be Universities' to be called
'Universities'.[2] In 2017 it was renamed back as SRM Institute of Science and
Technology following the UGC request to drop "University" from the name.</article>
          <div style="text-align:left;">
               <iframe width="560" height="315"</pre>
src="https://www.youtube.com/embed/ij0KI 9TKXA" frameborder="0" allow="accelerometer;
autoplay; encrypted-media; gyroscope; picture-in-picture" allowfullscreen></iframe>
          </div>
          <article><h2>Vellore Institute of Technology (VIT) </h2> It is a private
university located in Vellore, Tamil Nadu, India. Founded in 1984, as Vellore
Engineering College, by G. Viswanathan, the institution offers 20 undergraduate, 34
postgraduate, four integrated and four research programs. It has campuses in Vellore,
Amravati, Bhopal and Chennai.</article>
          <div style="text-align:left;">
               <iframe width="560" height="315"</pre>
src="https://www.youtube.com/embed/JA3t27eBL3M" frameborder="0" allow="accelerometer;
autoplay; encrypted-media; gyroscope; picture-in-picture" allowfullscreen></iframe>
          </div>
```

```
<article><h2>National Institute of Technology, Tiruchirappalli</h2>It was
formerly called as Regional Engineering College, Tiruchirappalli, is a public
technical and research university near the city of Tiruchirappalli in Tamil Nadu,
India. Founded in 1964, it is one of India's oldest, most selective, and most
prestigious technical universities. It is located in a campus of 800 acres (3.24
km^2).</article>
           <div style="text-align:left;">
               <iframe width="560" height="315"</pre>
src="https://www.youtube.com/embed/VbMHtpOcYB4" frameborder="0" allow="accelerometer;
autoplay; encrypted-media; gyroscope; picture-in-picture" allowfullscreen></iframe>
           </div>
      </div>
           <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"</pre>
integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>
           <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
integrity="sha384-U02eT0CpHqdSJQ6hJty5KVphtPhzWj9W01clHTMGa3JDZwrnQq4sF86dIHNDz0W1"
crossorigin="anonymous"></script>
           <script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
crossorigin="anonymous"></script>
   </body>
</html>
```

home.php

```
!DOCTYPE html>
      <link rel="stylesheet" type="text/css" href="Home.css">
      k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">
      <link rel="icon" type="x-icon" href="jagran logo1.jpg">
      <link href="https://fonts.googleapis.com/css?family=Quicksand&display=swap"</pre>
rel="stylesheet">
      <link rel="stylesheet" type="text/css"</pre>
      <title>College Predictor</title>
              <a class="nav-link" href="home.php">Home</a>
              <a class="nav-link" href="colleges.php">Colleges</a>
              <a class="nav-link" href="index.php">Not <?php</pre>
                  if(isset($ SESSION['username']))
                     echo $ SESSION['username'];
                  ?>? Logout</a>
      <div class="background">
          <i class="fa fa-quote-left"></i>Research shows that there is only half
as much variation in student achievement between schools as there is among classrooms
in the same school. If you want your child to get the best education possible, it is
actually more important to get him assigned to a great teacher than to a great
school.
```

Css file

```
body
  background-image:
url("https://i.pinimg.com/originals/41/ce/e6/41cee68e61db57391897fddc3fd5708d.jpg");
  background-repeat: no-repeat;
  background-size: cover;
.background
  max-width:700px;
  padding: 20px;
  position: relative;
  margin: 20px auto;
  background: rgba(255,255,255,0.8);
   font-family: Quicksand;
#center
   text-align: center;
  width: 400px;
  border:2px solid #19bf7d;
  outline:none;
  background: none;
  border-radius: 50px;
  padding: 3px 7px;
   font-size: 20px;
  height:40px;
  max-width: 90%;
  position: relative;
   margin:auto;
button
  border:none;
   outline:none;
```

```
background: #19bf7d;
font-size: 20px;
text-align:center;
color:white;
width: 40%;
height: 50px;
text-shadow: 2px 2px #000000;
border-radius: 50px;
}
::-webkit-scrollbar {
    display: none;
}
```

Login.js

```
$(document).ready(function(){
    $('#oksignup').click(function()){
        $('#login').addClass("reg");
        $('#signup').removeClass("reg");
    });
    $('#oklogin').click(function()){
        $('#signup').addClass("reg");
        $('#login').removeClass("reg");
    });
});

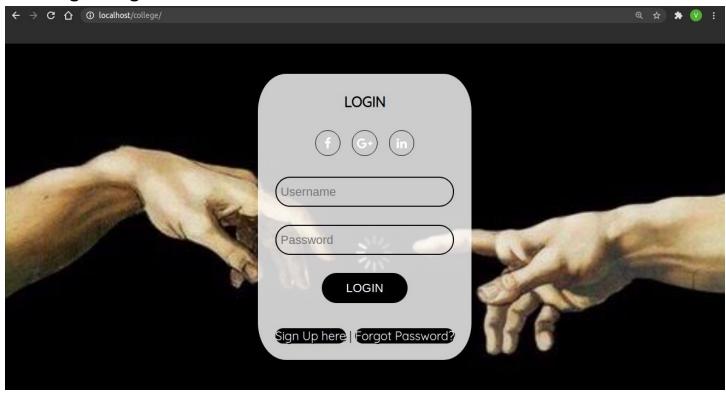
function forgpw()
{
    event.preventDefault();
    $("#login").hide();
    $("#forgotpw").show();
}
```

validation.js

```
function validate()
{
  var mailformat = /^w+([.-]?w+)*@w+([.-]?w+)*(.w{2,3})+$/;
  if(($('#email').val()).match(mailformat))
  {
     document.form1.text1.focus();
     return true;
  }
  else
  {
     alert("You have entered an invalid email address!");
     document.form1.text1.focus();
     return false;
  }
}
```

SCREENSHOTS

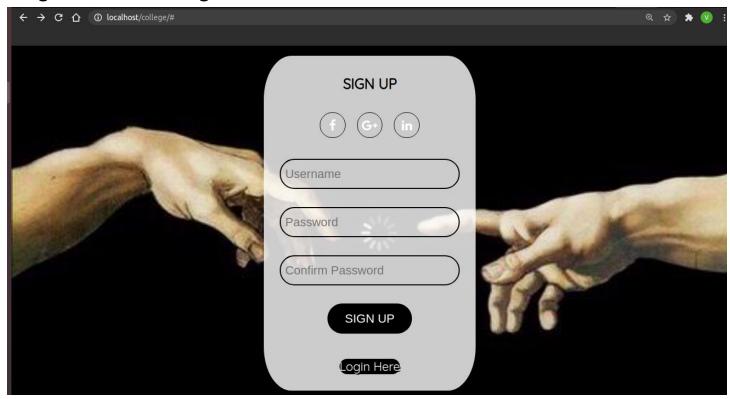
The Login Page:



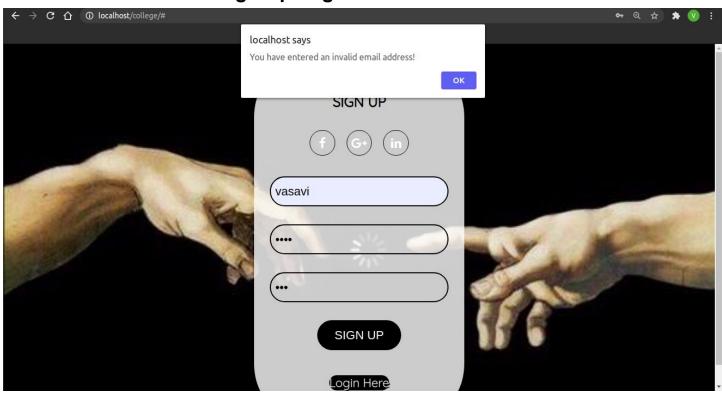
Sign Up Page:



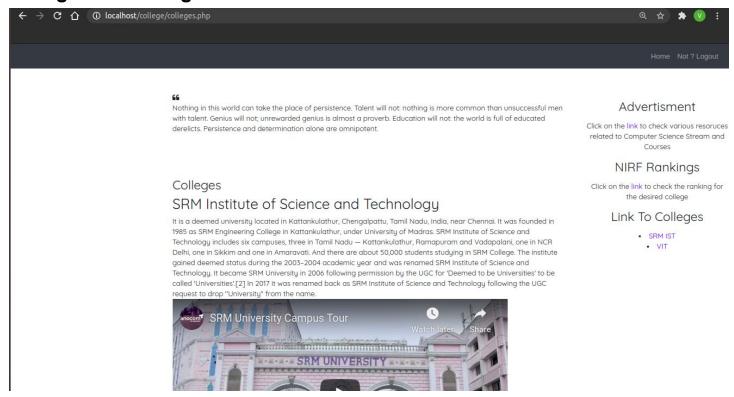
Forgot Password Page



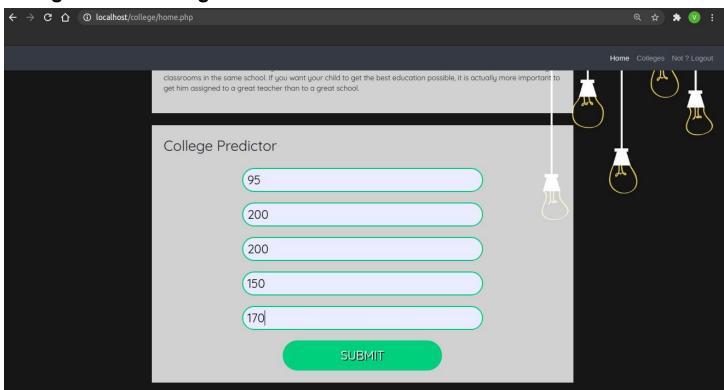
Validation for Email In Sign Up Page:



College Details Page:



College Predictor Page:



Predicted College You are eligible to apply for National Institute of Technology

Result

This system, being the first we have created, has proven more difficult than originally imagined. While it may sound simple to fill out a few forms and process the information, much more is involved in the selection of applicants than this. Every time progress was made and features were added, ideas for additional features or methods to improve the usability of the system made themselves apparent. Furthermore, adding one feature meant that another required feature was now possible, and balancing completing these required features with the ideas for improvement as well as remembering everything that had to be done was a project in itself. Debugging can sometimes be a relatively straightforward process, or rather finding out what you must debug can be. Since so many parts of the admissions system are integrated into one another, if an error occurs on one page, it may be a display error.