MSDS LAB

Mini Project Report

On

SRKR READY

Submitted By

Mr. Banka Dharmik	**20B91A0526**
Mr. Baka Leela Karthik	**20B91A0520**
Miss. Adabala Rupasri Lakshmi Durga Devi	**20B91A0504**
Miss. Balusu Ratna Mani Madhu Pavana Sai Pranathi	**20B91A0522**
Miss. Alapati Jahnavi	**20B91A0509**
Miss. Addala Leela Manasa	**20B91A0506**

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

S.R.K.R ENGINEERING COLLEGE(A)

(Affiliated to JNTU, KAKINADA) BHIMAVARAM 534204

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

S.R.K.R. ENGINEERING COLLEGE BHIMAVARAM

CERTIFICATE

This is to certify that this is a bonafide work on "**SRKR Ready**" and has been submitted by **Mr. B Dharmik (20B91A0526),** in partial fulfilment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering, during the academic year 2022-2023. The candidate worked right under my supervision and guidance.

Lecturers In-Charge
Sri. S.Suryanarayana Raju
Smt. P.Jahnavi

Assistant professor,
Department of CSE,
S.R.K.R. Engineering College,
Bhimavaram

Head of the Department
Dr.V.Chandra Sekhar

Head of the Department,
Department of CSE,
S.R.K.R. Engineering
College, Bhimavaram

ACKNOWLEDGEMENT

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I wish to express my deep sense of gratitude especially to my project Guide**, Sri. S SURYANARAYANA RAJU, Assistant Professor,** for his able guidance and useful suggestions, which helped me in completing the project work, in time.

Needless to mention that **Smt. P JHANAVI, Assistant Professor,** for his timely guidance in the conduct of my project work. Besides, this project made me realize the value of working together as a team and as a new experience in the working environment, which challenges me every minute.

Finally, yet importantly, I would like to express my heart full thanks to my beloved parents for their blessings, my friends/classmates for their help and wishes for the successful completion of this project.

Mr. Banka Dharmik

20B91A0526

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1.Abstract

SRKR READY is a web application that has been designed to cater to the recruitment needs of the college. The application has been developed using the Windows platform to ensure compatibility and easy integration with other Windows-based software. The main objective of the application is to provide companies with a competitive and comprehensive database of student information that can be used during the recruitment process.

The database maintained by the SRKR READY system is equipped with a robust login system that ensures only authorized personnel can access the student information. The system stores all the necessary personal details of students, such as their name, address, and contact information. Additionally, it also maintains academic information like aggregate marks, skill sets, and technical skills that are required to create resumes and other essential documents needed for recruitment.

One of the unique features of the SRKR READY system is its leaderboard that provides a visual representation of how students are performing across various competitive coding platforms. The recruiters can use this interactive table to sort students according to their needs, making the selection process easier and more efficient.

The system also provides recruiters with an option to filter out students according to the current emerging technologies. This feature ensures that recruiters can find the most suitable candidates for their recruitment needs.

In conclusion, the SRKR READY system is an essential tool for both students and companies during the recruitment process. It provides a comprehensive and competitive database of student information that makes the selection process more efficient and effective

2.Modules

1. **User Registration & Login:** The registration process for both student and company users begins with them navigating to the registration page of the website. They would then select navigate to their user type and proceed to fill out a registration form that requires them to enter personal information such as their name, email address, and password. To ensure the security of their account, an OTP (one-time password) is sent to their registered email address to verify their identity. The user would then enter the OTP to activate their account. After the registration process is complete, the user can log in to their account using their email address and password. They would be directed to a dashboard that displays their account details and other relevant information.

2. **Descriptive Home Page:** The home page consists of a simple description on the current placements of the SRKR Engineering College, with a visual slider that consists of pictures corresponding to placement statistics of the college.

3. **Informative Column:** These gives the description on how the web page and its tools work for both student and company using it. There is also information regarding how the training and placement works for the SRKR Engineering College and their key objectives moving forward.

4. **User Dashboard:** The user dashboard enables you the option to change your password and logout when needed. It consists of the basic description such as name and email of the account type.

5. **Competitive Leaderboard:** This one of the most useful features of the website. It is a leaderboard where it is designed tallying several coding platforms scores to sort out the students with the best activity. Coding profile scores are calculated using several formulas and taking from platforms such as Hackerrank, Leetcode, Codechef and InterviewBit.

6. **Automatic Resume:** A resume is automatically built based on the student information provided. Basic fields such as Career Objective, Projects, Internships, certifications etc are included.

7. **Filtering Students:** Companies are provided with the feature to filter out students by selecting the emerging technologies required for them. Students will be filtered out in a leaderboard if the criterion meets.

8. **Edit Details:** Option to edit details even after a later time is enabled. Students and Companies can both update their passwords whenever required. Students are provided with the option to modify their user description whenever required in a convenient manner.

9. **Security:** All the confidential information such as passwords aren't stored as it is. We use hashing functions to convert the password into a 128bit hash using MD5 for data confidentiality. Also, the user is given the feature to generate a new password in case he/she forgets the old password also confidentially.

10. **Real-Time Analysis:** Student competitive leaderboard gets updated in real-time whenever a new user registers. We also consist of the option to update the leaderboard once in a day programmatically with the option owned by the administrator.

3.Software Requirements

XAMPP: XAMPP is a cross-platform software package that provides an environment for web developers to build and test web applications on their local machines.

BeautifulSoup: BeautifulSoup is a Python library used for web scraping and parsing HTML and XML documents.

PHP: PHP is a server-side scripting language used to develop dynamic web applications. It is widely used for building websites and web applications.

HTML: HTML (Hypertext Markup Language) is a markup language used to create the structure of web pages and content on the internet.

CSS: CSS (Cascading Style Sheets) is a style sheet language used to describe the presentation of HTML or XML documents.

JavaScript: JavaScript is a programming language used to create interactive effects within web browsers. It is used to add functionality to web pages and create dynamic web applications.

MySQL: MySQL is an open-source relational database management system used to store and manage data on the web.

Composer: Composer is a dependency manager for PHP that allows developers to manage dependencies required by their projects.

VS Code: VS Code (Visual Studio Code) is a free and open-source code editor developed by Microsoft. It is used for coding, debugging, and testing web applications.

PHPMailer: PHPMailer is a popular PHP library used to send emails from PHP applications. It provides a simple and flexible way to send email using SMTP, sendmail, or PHP's mail function.

MariaDB: MariaDB is an open-source relational database management system and a community-driven fork of MySQL. It is a drop-in replacement for MySQL and offers several additional features and enhancements over MySQL. MariaDB is widely used by developers for web applications and is known for its speed, scalability, and robustness.

4.Sample Code

Login.php

```
<?php
   // Database configuration
   $servername = "localhost";
   $username = "root";
   $password = "";
   $dbname = "srkr ready";

   // Connect to the database
   $conn = mysqli_connect($servername, $username, $password, $dbname);

   // Check connection
   if (!$conn) {
      die("Connection failed: " . mysqli_connect_error());
   }

   // If the login form of student is submitted
   if (isset($_POST["stu_signin"])) {

      // Get the username and password from the form data
      $username = $_POST['stu_user'];
      $capusername = strtoupper($username);
      $password = md5($_POST['stu_pass']);

      $sql = "SELECT * FROM stu_users WHERE username = '$capusername' OR email =
'$username'";
      $result = mysqli_query($conn, $sql);

      // If the user exists
      if (mysqli_num_rows($result) > 0) {
         $row = mysqli_fetch_assoc($result);
         $username = $row["username"];
         $email = $row["email"];
         $pass = $row["password"];
         if ($pass != $password)
         {
            //Invalid password
            echo "<script type='text/javascript'> alert('Invalid Password');
```

```
            window.location.href='login.php';
            </script>";
        }
        else
        {
            //Valid password
            session_start();
                                $_SESSION['username'] = $username;
            $_SESSION['email'] = $email;
            $_SESSION['type'] = 'student';
            header("Location: stu_home.php");
        }
    }
    else
    {
        //User doesnt exist
        echo "<script type='text/javascript'> alert(\"User Doesn't Exist\");
        window.location.href='signup.php';
        </script>";
    }
}

// If the login form of company is submitted
if (isset($_POST["com_signin"])) {

    // Get the username and password from the form data
    $username = $_POST['com_email'];
    $password = md5($_POST['com_pass']);

    $sql = "SELECT * FROM com_users WHERE email = '$username'";
    $result = mysqli_query($conn, $sql);

    // If the user exists
    if (mysqli_num_rows($result) > 0) {
        $row = mysqli_fetch_assoc($result);
        $company = $row["company"];
        $email = $row["email"];
        $pass = $row["password"];
        if ($pass != $password)
        {
            //Invalid password
            echo "<script type='text/javascript'> alert('Invalid Password');
            window.location.href='login.php?action=signup';
            </script>";
```

```
            }
            else
            {
                //Valid password
                session_start();
                                $_SESSION['username'] = $company;
                $_SESSION['email'] = $email;
                $_SESSION['type'] = 'company';
                header("Location: com_home.php");
            }
        }
        else
        {
            //User doesnt exist
            echo "<script type='text/javascript'> alert(\"User Doesn't Exist\");
            window.location.href='signup.php?action=signup';
            </script>";
        }
    }
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>SRKR Ready | Login</title>
    <link rel="stylesheet" type="text/css" href="login.css">
</head>
<body>
    <div class="heading">
        <img src = "images/SRKR Ready Logo.png">
    </div>
    <div class="container" id="container">
        <div class="form-container sign-up-container">
            <form action="" method="POST">
                <h2>For Companies</h2>
                <input name="com_email" type="email" placeholder="Email" required>
                <input name="com_pass" type="password" placeholder="Password" required>
                <a href="com_forgot.php">Forgot your password?</a>
                <button type="submit" name="com_signin">Sign In</button>
                <div class="not-user">
                    <span>Not a user? </span>
```

```
            <a href="signup.php?action=signup">Sign Up </a>
          </div>
        </form>
      </div>
      <div class="form-container sign-in-container">
        <form action="" method="POST">
          <h2>For Students</h2>
          <input name="stu_user" type="text" placeholder="Username or Email" required>
          <input name="stu_pass" type="password" placeholder="Password" required>
          <a href="stu_forgot.php">Forgot your password?</a>
          <button type="submit" name="stu_signin">Sign In</button>
          <div class="not-user">
            <span>Not a user? </span>
            <a href="signup.php">Sign Up </a>
          </div>
        </form>
      </div>
      <div class="overlay-container">
        <div class="overlay">
          <div class="overlay-panel overlay-left">
            <img src = images/Company.png>
            <p>Welcome to our platform! We're excited to have you here. To learn more about
our services, please explore our website. If you have any questions, please do not hesitate to
contact us</p>
            <button class="ghost" id="signIn">I'm A Student</button>
          </div>
          <div class="overlay-panel overlay-right">
            <img src = images/Student.png>
            <p>Welcome to our platform! We're thrilled to have you here. To access our
resources and start competing againt the others, please sign in with your credentials.</p>
            <button class="ghost" id="signUp">I'm A Company</button>
          </div>
        </div>
      </div>
    </div>
</body>
<script>
    const signUpButton = document.getElementById('signUp');
    const signInButton = document.getElementById('signIn');
    const container = document.getElementById('container');
    signUpButton.addEventListener('click', () => {
        container.classList.add("right-panel-active");
    });
    signInButton.addEventListener('click', () => {
```

```
        container.classList.remove("right-panel-active");
    });

    const urlParams = new URLSearchParams(window.location.search);
    if (urlParams.has('action')) {
        const action = urlParams.get('action');
        if (action === 'signup') {
            // Trigger the function to show the sign-up form
            container.classList.add("right-panel-active");
        }
    }
</script>
</html>
```

Login.css

```
@import url('https://fonts.googleapis.com/css?family=Montserrat:400,800');

*{
        box-sizing: border-box;
}

body {
        background: #f6f5f7;
        display: flex;
        justify-content: center;
        align-items: center;
        flex-direction: column;
        font-family: 'Montserrat', sans-serif;
        height: 100%;
}

.heading img {
        width: 600px;
        height: 75px;
        margin: 20px;
}

h1 {
        font-weight: bold;
        margin: 0;
}
```

```
h2 {
	text-align: center;
}

p {
	font-size: 14px;
	font-weight: 100;
	line-height: 20px;
	letter-spacing: 0.5px;
	margin: 20px 0 30px;
}

span {
	font-size: 12px;
}

a {
	color: #333;
	font-size: 14px;
	text-decoration: none;
	margin: 15px 0;
}

button {
	border-radius: 20px;
	border: 1px solid #FF4B2B;
	background-color: #FF4B2B;
	color: #FFFFFF;
	font-size: 12px;
	font-weight: bold;
	padding: 12px 45px;
	letter-spacing: 1px;
	text-transform: uppercase;
	transition: transform 80ms ease-in;
}

button:active {
	transform: scale(0.95);
}

button:focus {
	outline: none;
}
```

```
button.ghost {
	background-color: transparent;
	border-color: #FFFFFF;
}

form {
	background-color: #FFFFFF;
	display: flex;
	align-items: center;
	justify-content: center;
	flex-direction: column;
	padding: 0 50px;
	height: 100%;
	text-align: center;
}

input {
	background-color: #eee;
	border: none;
	padding: 12px 15px;
	margin: 8px 0;
	width: 100%;
}

.container {
	background-color: #fff;
	border-radius: 10px;
	box-shadow: 0 14px 28px rgba(0,0,0,0.25),
			0 10px 10px rgba(0,0,0,0.22);
	position: relative;
	overflow: hidden;
	width: 768px;
	max-width: 100%;
	min-height: 480px;
}

.form-container {
	position: absolute;
	top: 0;
	height: 100%;
	transition: all 0.6s ease-in-out;
}

.sign-in-container {
```

```
        left: 0;
        width: 50%;
        z-index: 2;
}

.container.right-panel-active .sign-in-container {
        transform: translateX(100%);
}

.sign-up-container {
        left: 0;
        width: 50%;
        opacity: 0;
        z-index: 1;
}

.container.right-panel-active .sign-up-container {
        transform: translateX(100%);
        opacity: 1;
        z-index: 5;
}

@keyframes show {
        0%, 49.99% {
                opacity: 0;
                z-index: 1;
        }

        50%, 100% {
                opacity: 1;
                z-index: 5;
        }
}

.overlay-container {
        position: absolute;
        top: 0;
        left: 50%;
        width: 50%;
        height: 100%;
        overflow: hidden;
        transition: transform 0.6s ease-in-out;
        z-index: 100;
}
```

```
.container.right-panel-active .overlay-container{
	transform: translateX(-100%);
}

.overlay {
	background: #f85503;
	background: -webkit-linear-gradient(to right, #ff4b2bec, #ea6d07);
	background: linear-gradient(to right, #ff4b2bec, #ea6d07);
	background-repeat: no-repeat;
	background-size: cover;
	background-position: 0 0;
	color: #FFFFFF;
	position: relative;
	left: -100%;
	height: 100%;
	width: 200%;
	transform: translateX(0);
	transition: transform 0.6s ease-in-out;
}

.container.right-panel-active .overlay {
	transform: translateX(50%);
}

.overlay-panel {
	position: absolute;
	display: flex;
	align-items: center;
	justify-content: center;
	flex-direction: column;
	padding: 0 40px;
	text-align: center;
	top: 0;
	height: 100%;
	width: 50%;
	transform: translateX(0);
	transition: transform 0.6s ease-in-out;
}

.overlay-left {
	transform: translateX(-20%);
}
```

```
.container.right-panel-active .overlay-left {
        transform: translateX(0);
}

.overlay-right {
        right: 0;
        transform: translateX(0);
}

.container.right-panel-active .overlay-right {
        transform: translateX(20%);
}

.not-user {
   margin: 10px 0;
}

.not-user span {
   font-size: 12px !important;
}

.not-user a {
   font-size: 12px !important;
   color: blue;
}
```

Leaderboard.php

```
<?php session_start(); ?>

<!DOCTYPE html>
<html lang="en" dir="ltr">
   <head>
      <meta charset="utf-8">
      <title>Student | Leaderboard</title>
      <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.15.3/css/all.min.css"/>
      <link rel="stylesheet" href="stu_leaderboard.css">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
   </head>
   <body>
      <nav class="topnav">
         <div class="topnav-left">
```

```
        <img src="images/SRKR Ready.png">
    </div>
    <div class="topnav-right">
        <ul>
        <li><a href="stu_home.php">Home</a></li>
        <li><a href="stu_profile.php">Profile</a></li>
        <li><a class="active">Leaderboard</a></li>
        <li><a href="stu_about.php">About</a></li>
        <li><?php echo "<a href='stu_settings.php'>{$_SESSION['username']}</a>"; ?></li>
        </ul>
    </div>
</nav>

<div class="content">
    <table id="leaderboard">
        <thead>
            <tr>
                <th data-sort="number">Sno<i class="fas fa-sort"></i></th>
                <th data-sort="string">Name<i class="fas fa-sort"></i></th>
                <th data-sort="string">RegNo<i class="fas fa-sort"></i></th>
                <th data-sort="string">Group<i class="fas fa-sort"></i></th>
                <th data-sort="number">Year<i class="fas fa-sort"></i></th>
                <th data-sort="number">Hackerrank<i class="fas fa-sort"></i></th>
                <th data-sort="number">Leetcode<i class="fas fa-sort"></i></th>
                <th data-sort="number">Codechef<i class="fas fa-sort"></i></th>
                <th data-sort="number">Interviewbit<i class="fas fa-sort"></i></th>
                <th data-sort="number">TotalScore<i class="fas fa-sort"></i></th>
            </tr>
        </thead>
        <tbody>
            <?php
                // Connect to the database
                $servername = "localhost";
                $username = "root";
                $password = "";
                $dbname = "srkr ready";

                $conn = mysqli_connect($servername, $username, $password, $dbname);

                // Check connection
                if (!$conn) {
                    die("Connection failed: ");
                }
```

```
                // Get data from the database
                $sql = "SELECT * FROM stu_leaderboard order by TotalScore DESC";
                $result = mysqli_query($conn, $sql);

                // Loop through the data and output it in the table
                if (mysqli_num_rows($result) > 0) {
                    $i = 1;
                    while($row = mysqli_fetch_assoc($result))
                    {
                        echo "<tr>";
                        echo "<td>".$i."</td>";
                        echo "<td>".$row["Name"]."</td>";
                        echo "<td>".$row["Reg_No"]."</td>";
                        echo "<td>".$row["Group"]."</td>";
                        echo "<td>".$row["Year"]."</td>";
                        echo "<td>".$row["Hackerrank"]."</td>";
                        echo "<td>".$row["Leetcode"]."</td>";
                        echo "<td>".$row["Codechef"]."</td>";
                        echo "<td>".$row["Interviewbit"]."</td>";
                        echo "<td>".$row["TotalScore"]."</td>";
                        echo "</tr>";
                        $i++;
                    }
                }
                else {
                    echo "<tr><td colspan='10'>No records found.</td></tr>";
                }

                // Close the database connection
                mysqli_close($conn);
            ?>
        </tbody>
    </table>
</div>

</body>

<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/tablesort/5.2.0/tablesort.min.js"></script>
<script>
    // Initialize tablesort plugin
    new Tablesort(document.getElementById('leaderboard'));
</script>
</html>
```

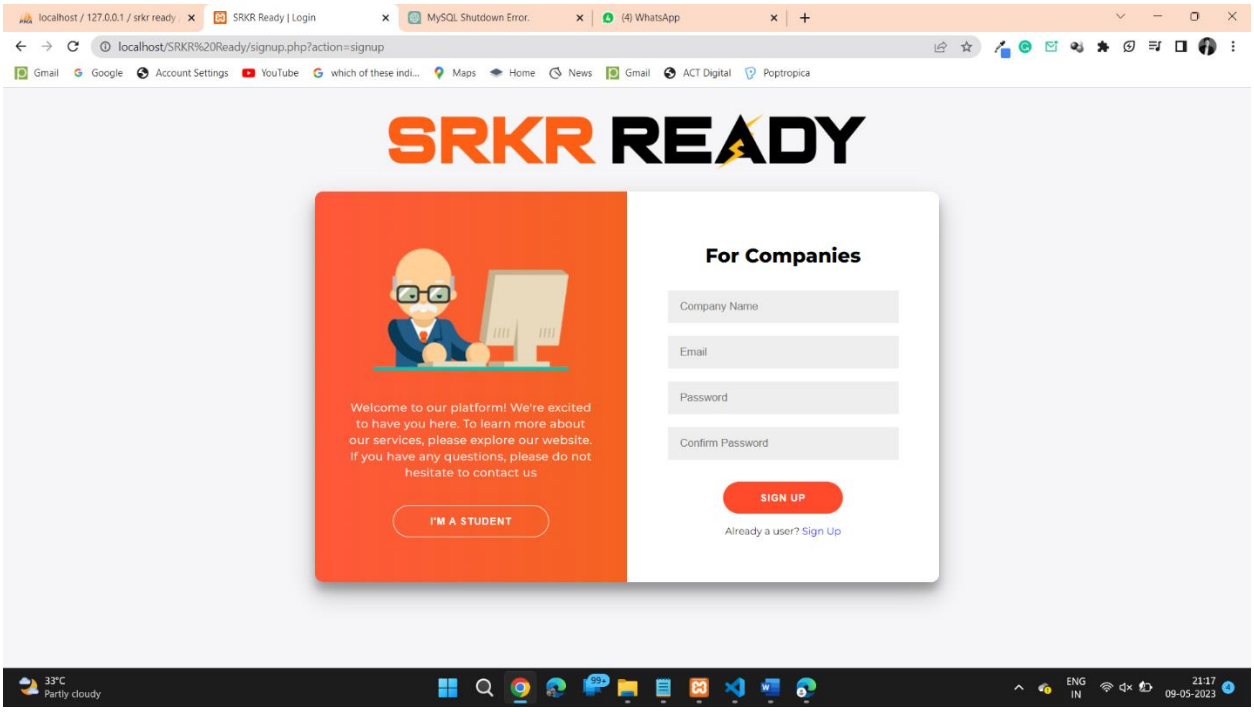
Leaderboard.css

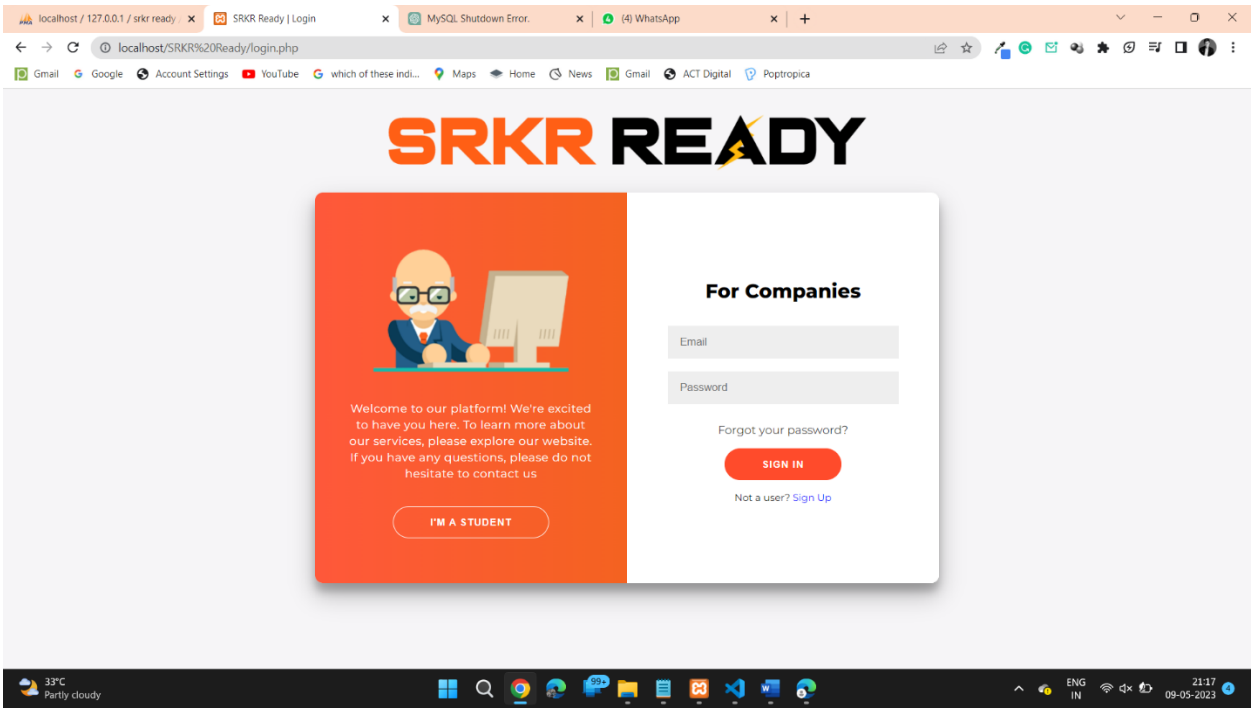
```
@import
url('https://fonts.googleapis.com/css?family=Poppins:400,500,600,700&display=swap');

*{
  margin: 0;
  padding: 0;
  box-sizing: border-box;
  font-family: 'Poppins', sans-serif;
}

body{
  background: #f0f2f5;
  height: 100%;
  overflow: hidden;
}

.topnav{
  display: flex;
  align-items: center;
  justify-content: space-between;
  background: #ff6c37;
  padding: 13px 1%;
  box-shadow: 0 0 8px rgba(0, 0, 0, 0.450);
  position: sticky;
  top: 0;
}

.topnav-left {
  flex-basis: 50%;
  display: flex;
}

.topnav-left img{
  height: 40px;
  width: 320px;
}

.topnav-right{
  flex-basis: 50%;
  text-align: right;
}
```

```
.topnav-right ul{
  margin: 0 auto;
  padding: 0px;
}

.topnav-right ul li{
  list-style: none;
  display: inline-block;
}

.topnav-right ul li a{
  padding: 10px 20px;
  border-radius:5px;
  color: #FFF;
  font-size: 18px;
  text-decoration: none;
}

.topnav-right ul li a:hover:not(.active){
  color:#000 !important;
  background-color: rgba(255, 255, 255);
}

.active{
  cursor: default;
  color:#000 !important;
  background-color: rgba(255, 255, 255);
}

tr:hover {
    background-color: #ffebdac0  ;
}

th, td {
    text-align:center;
    padding: 8px;
    border-bottom: 1px solid #cccccc;
}

table {
    border-collapse: collapse;
    width: 100%;
}
```

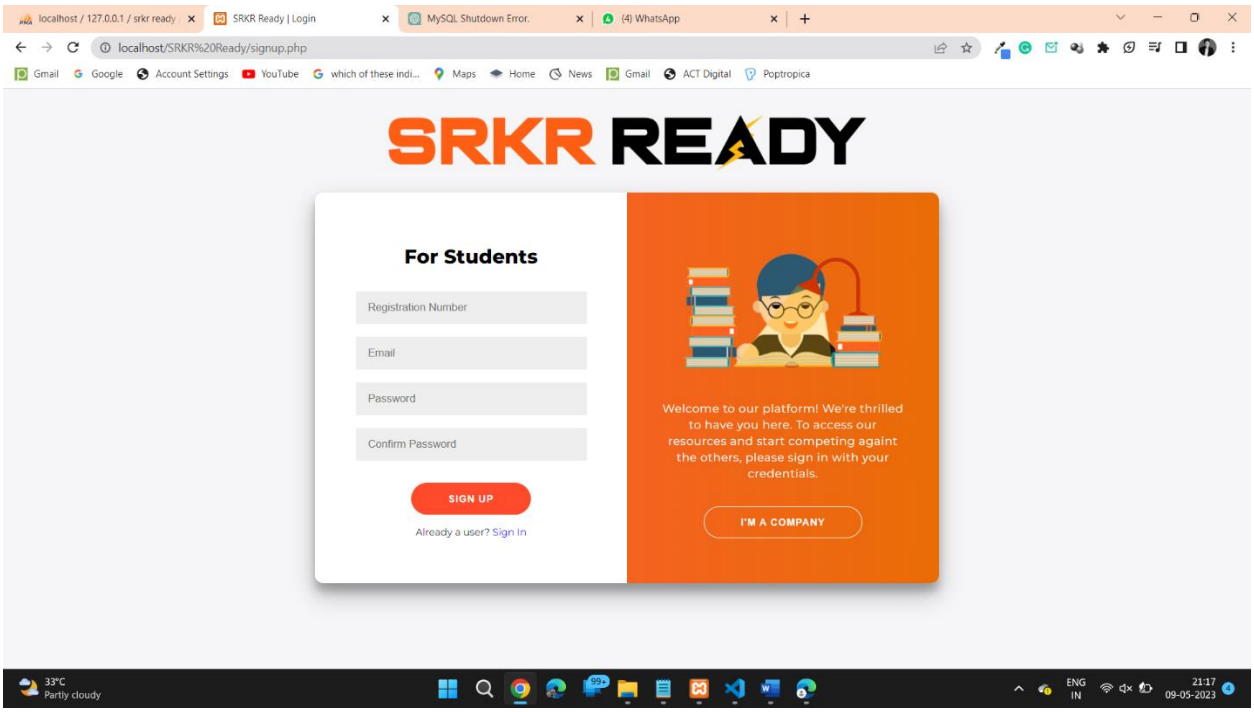
5.Screenshots

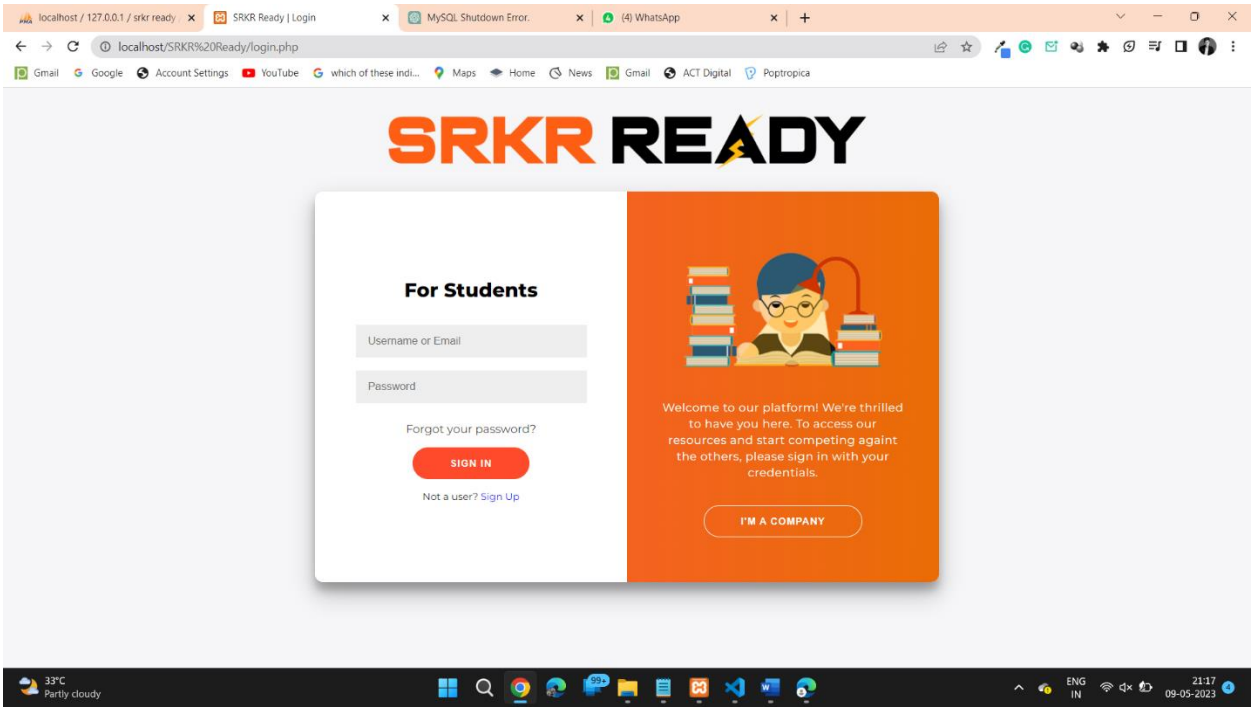
Login & Registration Company



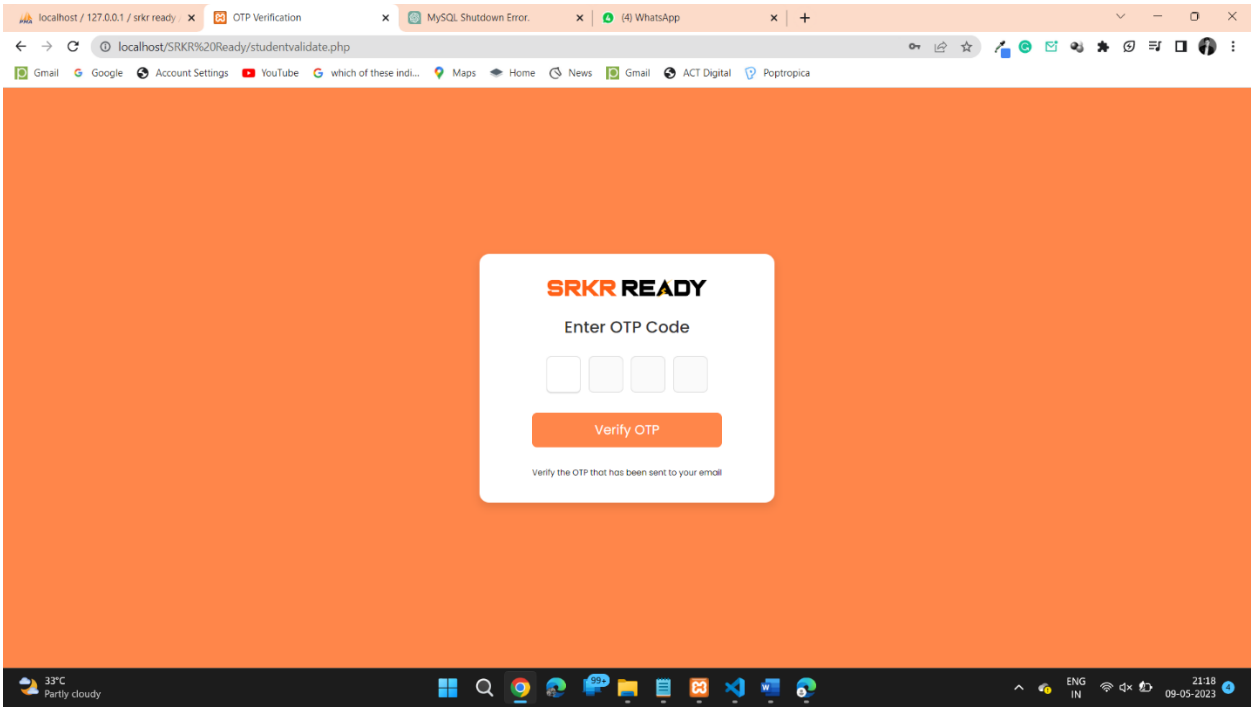


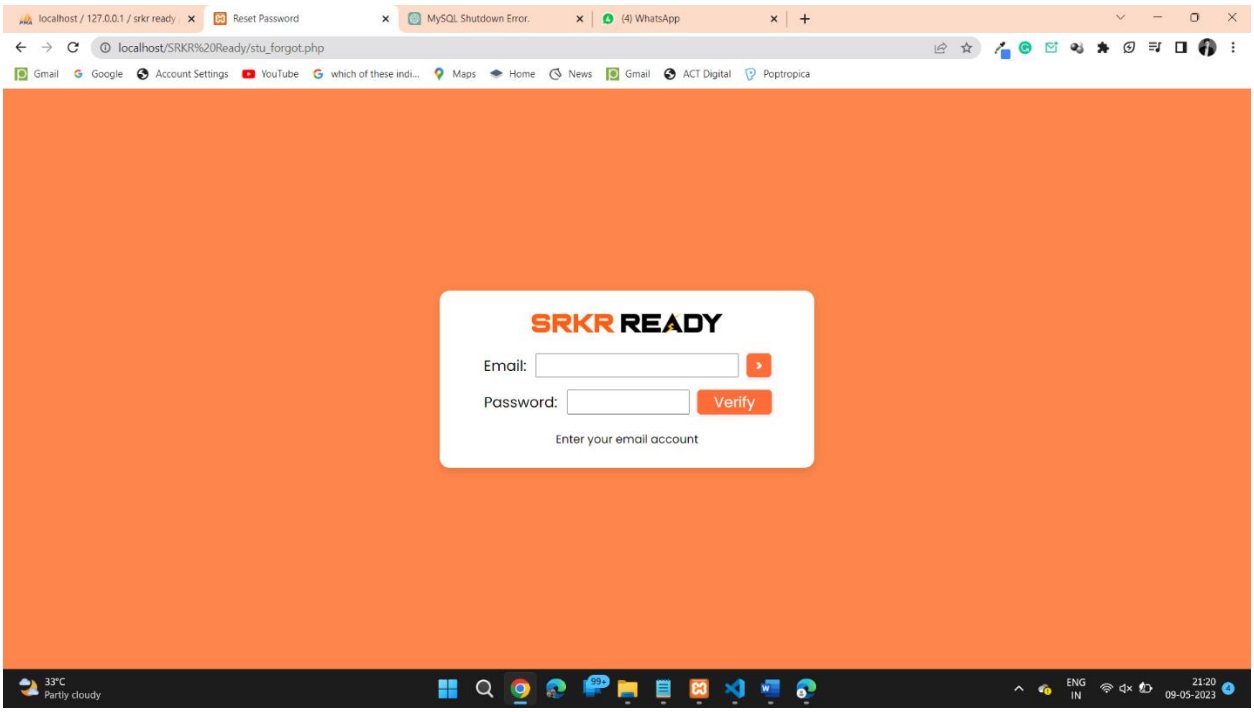
Login & Registration Student



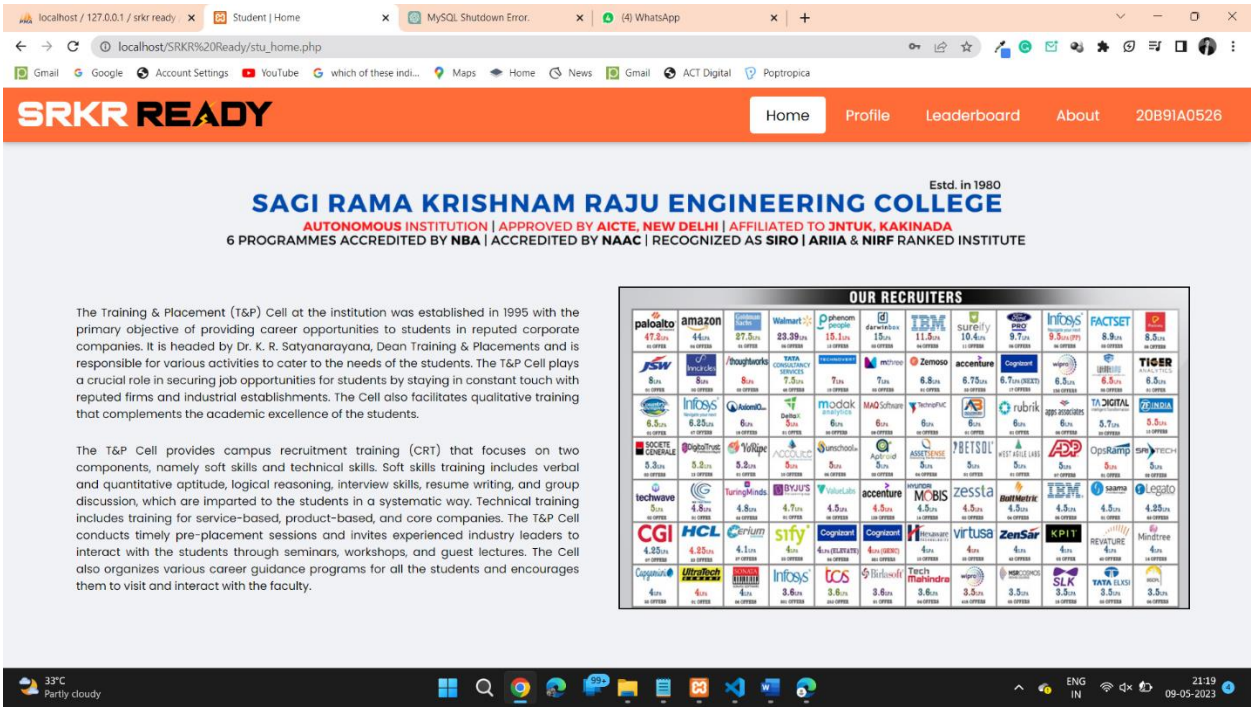


OTP Verification and Forget Password

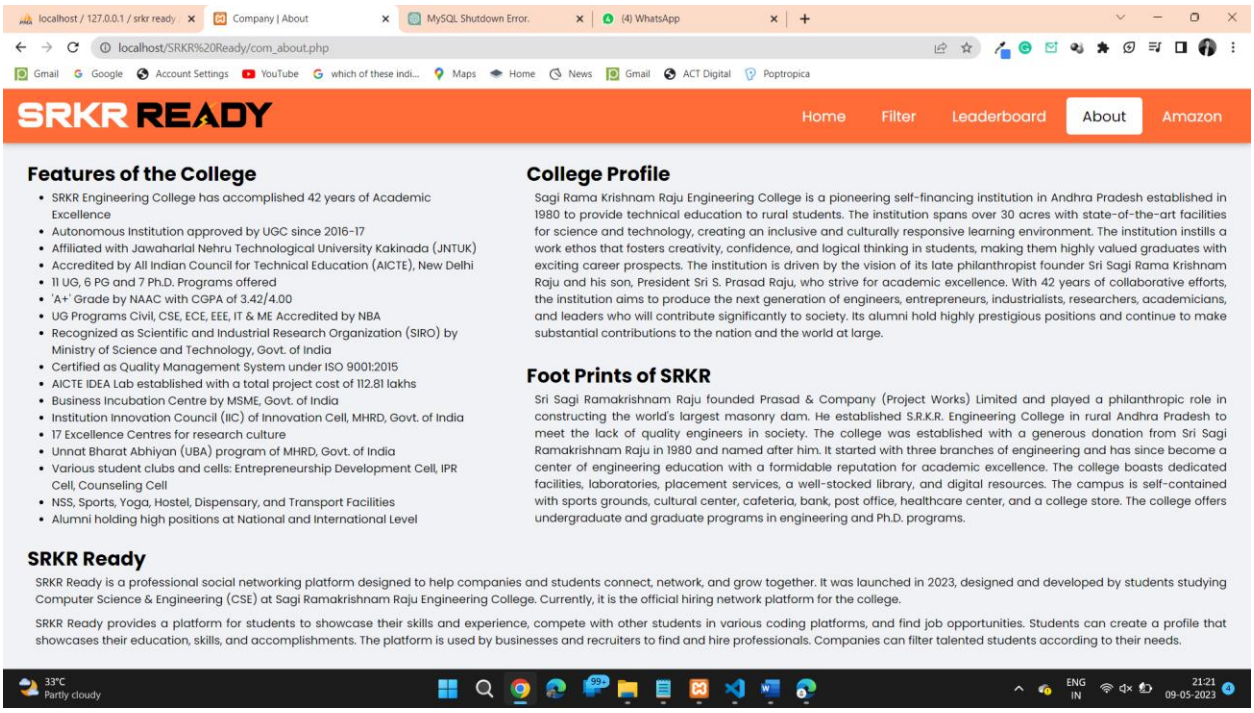




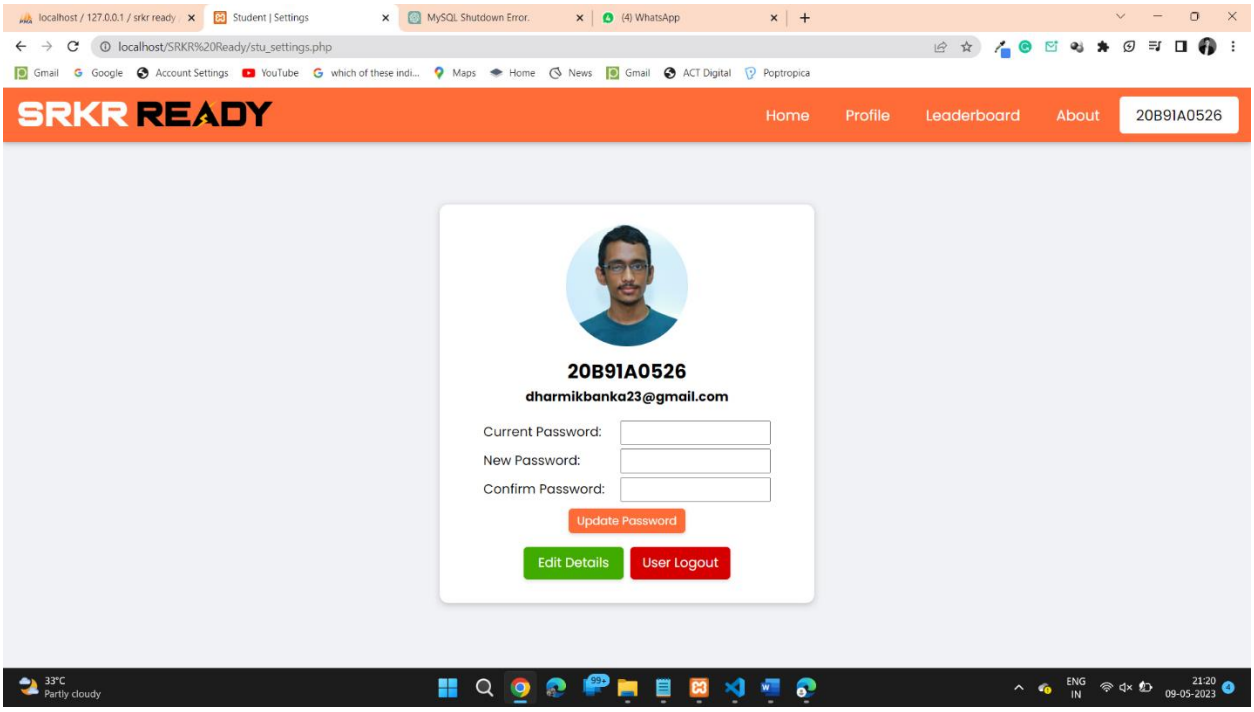
Student and Company Home



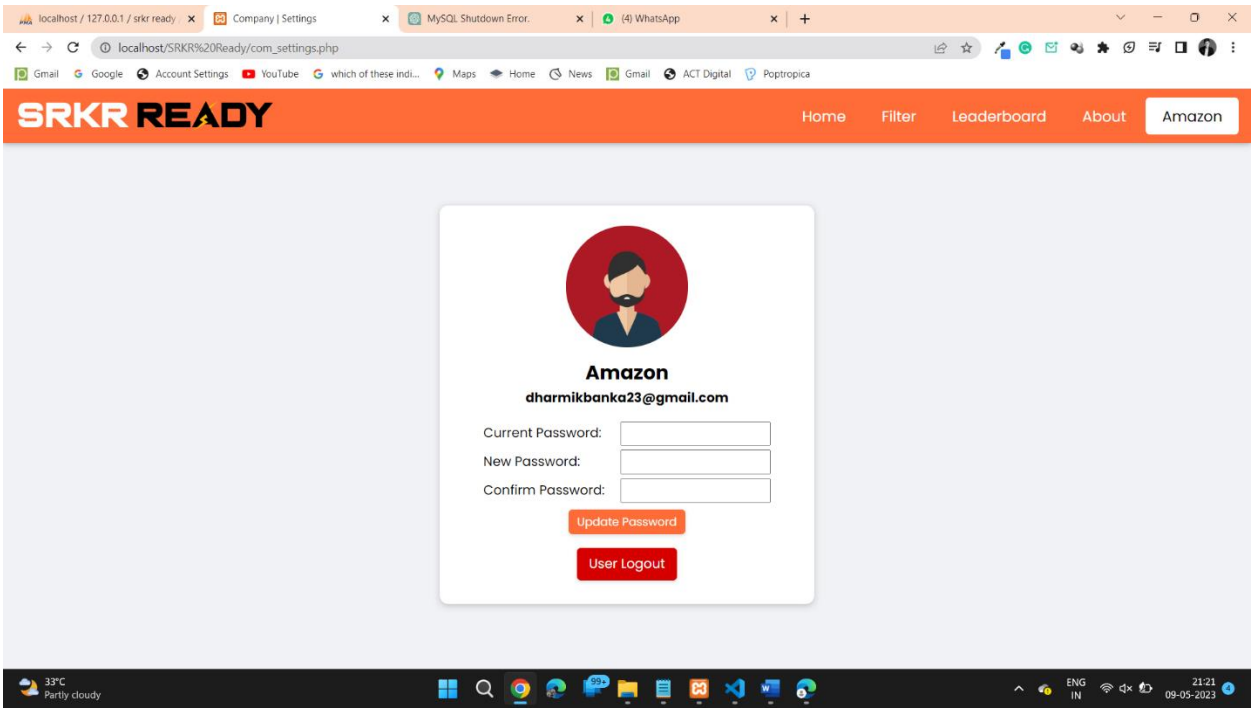
Student and Company About



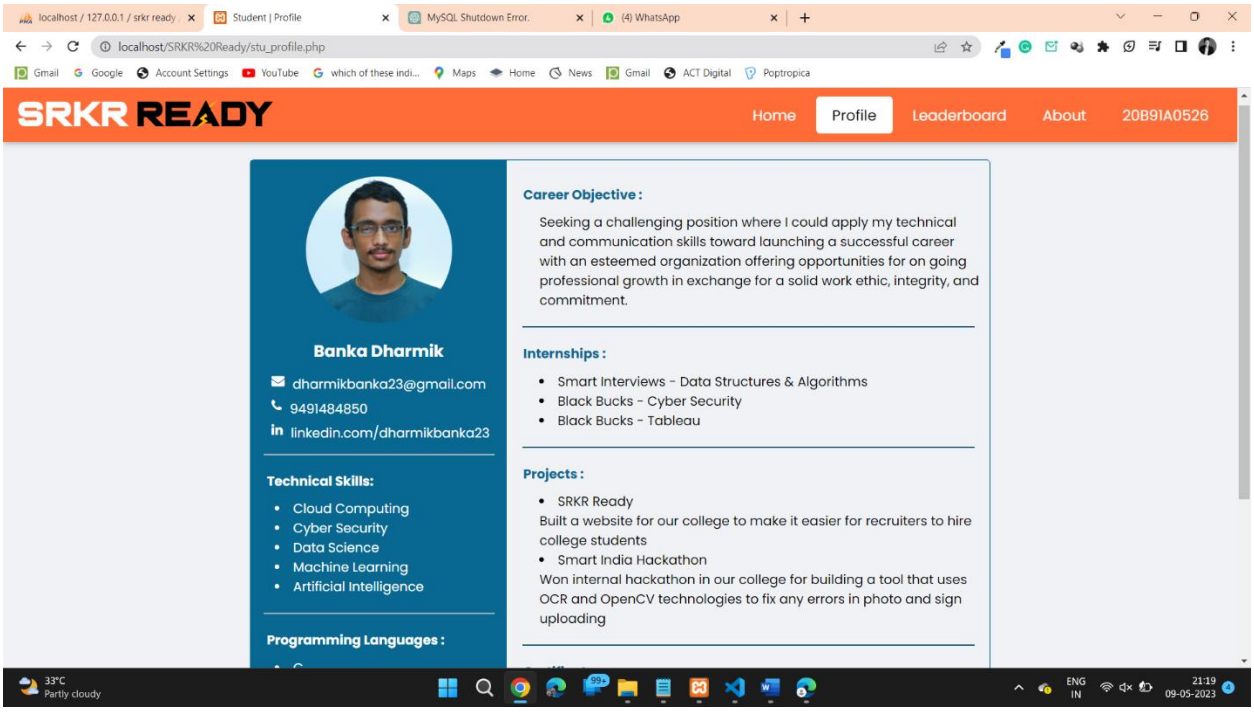
Student Settings



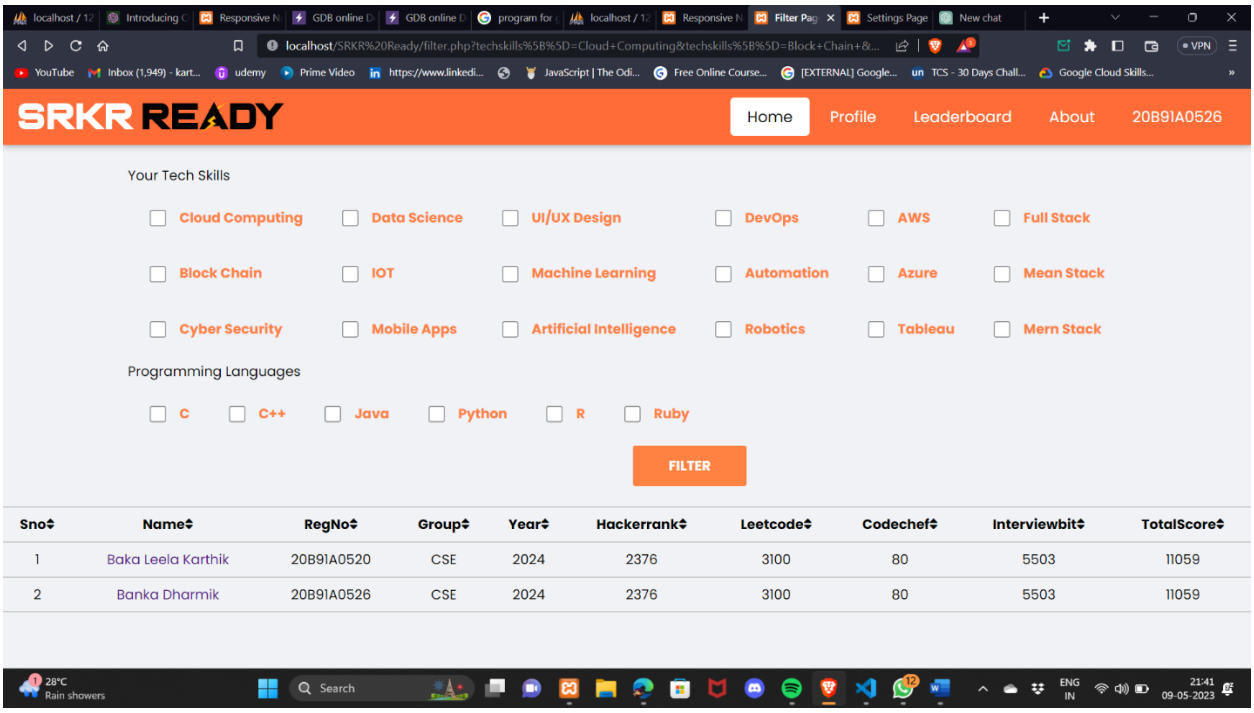
Company Settings



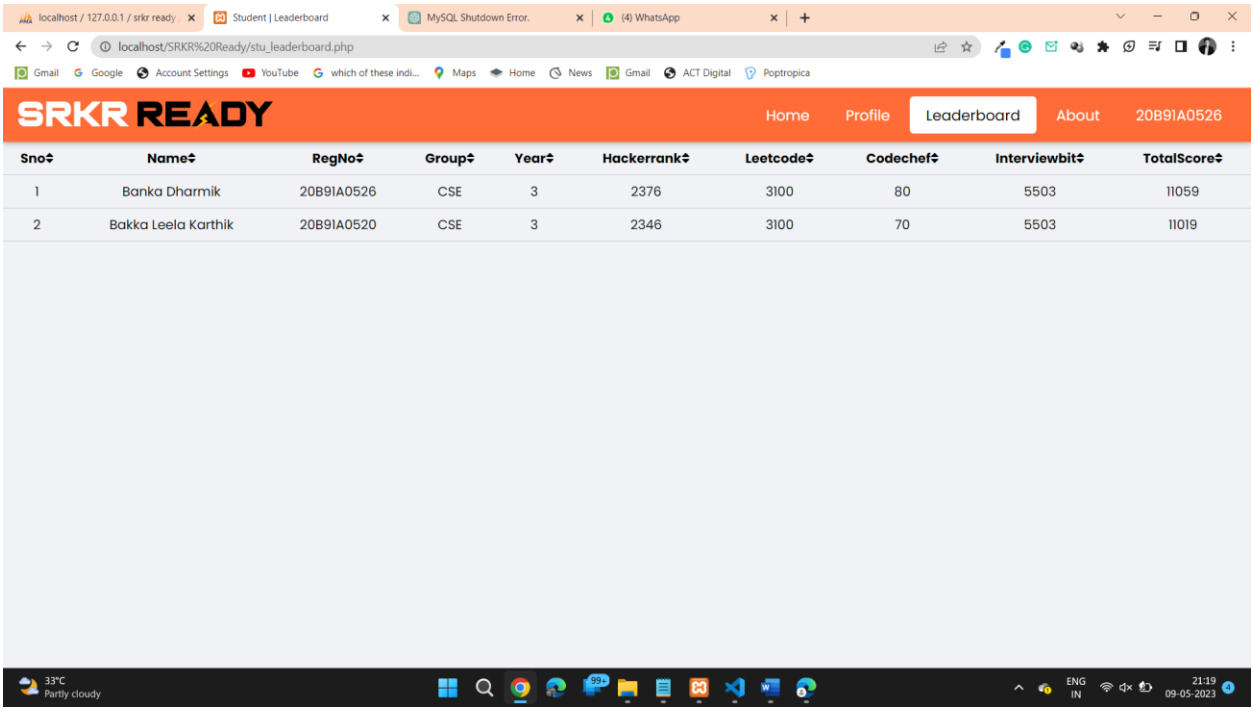
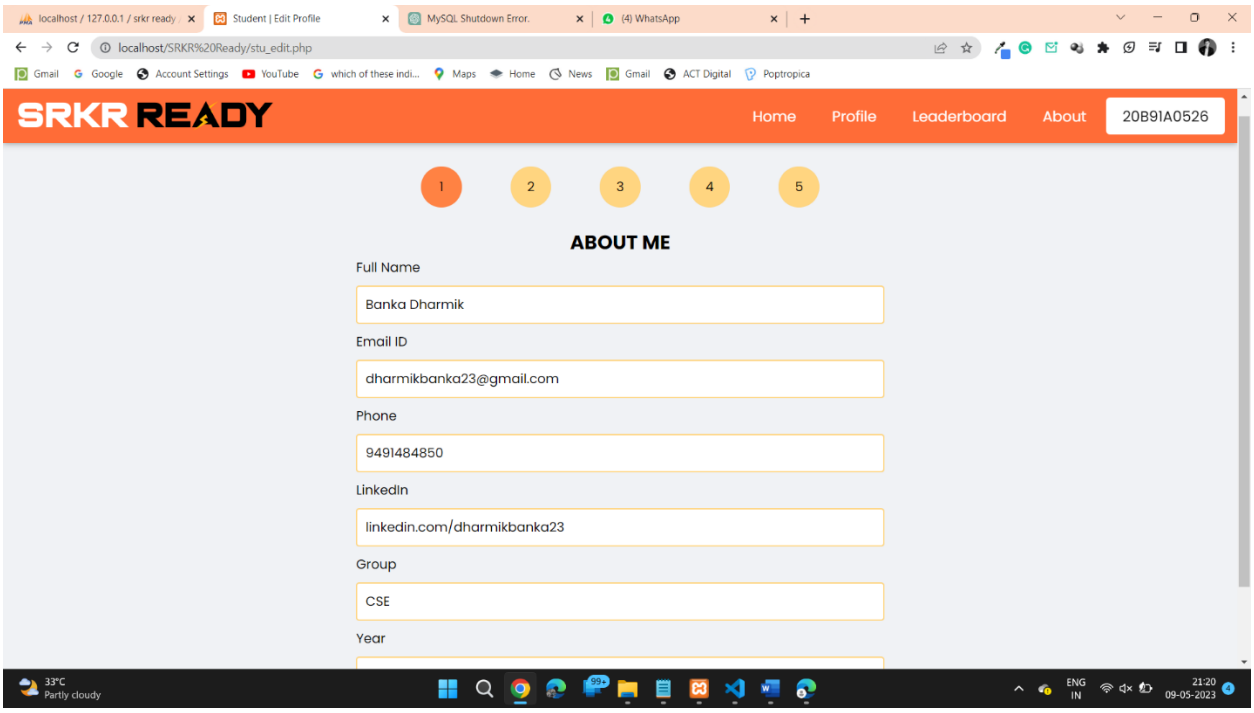
Student Profile



Company Filter



Student and Company Leaderboard



Student Edit Profile