



IIC Quest Documentation 2023 spring

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Abstract

This project presents the development of an inclusive online platform designed to cater to the diverse needs of college students. The platform serves as a community forum where students can seek academic assistance, engage in collaborative discussions, and enhance their networking capabilities. Additionally, the platform offers career counseling resources, a roadmap for learning programming languages with recommended online courses and books, as well as internship and job vacancy announcements, thereby empowering students in their academic, personal, and professional growth. The project aims to create an enriching environment that fosters knowledge-sharing, community engagement, and career development, ultimately enhancing the overall college experience for students.

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1. Introduction

1.1. Project description

In today's modernizing educational environment, students often encounter various challenges and seek supportive community to improve their academic journey effectively. Recognizing this need, our team "Team Elevate" have developed a comprehensive website named "Connect IIC", dedicated to fostering and engaging platform for students to seek academic guidance, enhance their network and explore career opportunities.

Our website serves as a community of college where all the students of a college domain are connected with each other. They can ask any queries, share academic problems, and engage in discussions with their peers. With an emphasis on collaborative learning, the College Community Forum encourages students to interact and comment on each other's queries, thereby cultivating an environment of knowledge sharing and mutual assistance.

One of the core features of our website is the availability of group chats tailored to different communities within the college. By providing dedicated spaces for students with shared interests, academic programs, or extracurricular pursuits, we aim to facilitate meaningful connections and promote an inclusive learning environment. These group chats enable students to engage in deeper conversations, exchange ideas, and form study groups, ultimately enhancing their overall educational experience.

Additionally, our website offers a well-structured roadmap for learning different programming languages, complete with online course links and recommended books, ensuring that students have access to comprehensive learning materials at their fingertips.

Moreover, the College Community Forum acts as a central hub for internship and job vacancy announcements. By connecting students with relevant opportunities, we strive to bridge the gap between academia and the professional world. This feature not only empowers students with real-world experiences but also enhances their chances of securing internships and employment upon graduation.

1.2. Problem domain

Students may encounter various challenges and problems in their academic journey. Some of the major problems identified by our team and the problems our website is trying to solve are:

- i. **Lack of network in college:** Student often face challenges in building a good network in college as they are unknown to each other and may face problems in having face to face communication with others around them. A good network is very important in college journey as it helps in having good collaborative study, improve team-work and collaboration, etc.
- ii. **Lack of Academic support:** Som students may face academic challenges in their journey, such as understanding complex concepts, solving problems, or seeking clarification on coursework. They need a platform where they can ask questions, share difficulties, and receive assistance from their peers.
- iii. **Lack of Community engagement:** Many students desire a sense of belonging and interaction within their college community. They seek opportunities to connect with like-minded individuals, engage in discussions, and collaborate on projects or assignments. Many communities can be formed like coders community, leadership community and students can involve in different activities like conducting sessions in order to share ideas and knowledges.
- iv. **Lack of Career development:** Navigating the career landscape can be overwhelming for students. They require guidance, access to career resources, and exposure to internships and job vacancies to make informed decisions and prepare for their professional future. Without any guidance they may face problem in choosing correct organizations and career path.

1.3. Project as a solution

The College Community Forum provides an effective solution to address the mentioned problem domains. By creating a robust online platform, our project offers the following solutions:

- i. **Network:** All students in a college domain are connected with each other and can view each other queries and chat with each other. The website fosters a vibrant community atmosphere by providing dedicated group chats for various communities within the college. Students can join groups based on their interests, academic programs, or extracurricular activities and share their ideas and knowledges.
- ii. **Academic Support:** Students can ask any academic-related queries, share their difficulties, and seek help from their peers. The platform allows for interactive discussions and comments, enabling students to receive timely responses and engage in collaborative problem-solving. The collective knowledge and support within the community contribute to improved academic performance and understanding.
- iii. **Vacancy announcements:** Through this feature, students can explore different career paths, receive advice on resume building and interview preparation, and gain insights into industry trends. Additionally, the platform acts as a centralized resource for internship and job vacancy announcements, ensuring students have access to relevant opportunities and increasing their chances of securing internships and employment.
- iv. **Learning Roadmap:** Our website takes great pride in offering a well-structured roadmap for learning various programming languages, designed to equip students with the necessary skills and knowledge in the field of programming. We understand that learning programming can often feel overwhelming due to the vast array of languages and resources available.

1.4. Aims and objectives

The aim of this project is to create an inclusive online platform for college students that combines academic support, community interaction, and resources for learning programming languages and accessing internship/job opportunities.

The main objective of this project are:

- To improve network and communication between the students in a college domain.
- To facilitate academic support to students through online platform.
- To improve interaction between the members of a community and provide a platform to share ideas and projects.
- To make a college community forum more user friendly and interactive.
- To provide a detailed roadmap for learning different skills with structured online courses and best recommendation of books and e-books.
- To connect students with internship and job opportunities.

2. Background

2.1. About the end users

Our website “Connect IIC” mainly focuses on creating a community forum for Itahari International College. Initially the end users of this website are the teachers and students of itahari international college. Our application is mainly focused on students collaboration and their career growth. Teacher and other staffs can use this application. Connect IIC helps to collaborate the student, when student login system student are connected to the network automatically and can talk in message through the chat section. Student can share their confusion and their course related problem can ask in message. There another section community are also present there. There are many more community like ‘React community’, ‘Flutter Community’, ‘UI/UX community’. Student can join the community and can discuss and ask community related questions and student can also post the question and other student teacher, who know the answer they can give that answer in comment. Student can also get the post of internship and Job vacancy. In the skill section, student can get the programming language and framework detail description, their roadmap and pdf book and online courses are available there.

3. Development

3.1. Requirement Analysis

Requirement analysis is a crucial process in software development and project management. It involves gathering, documenting, and analyzing the needs, expectations, and constraints of stakeholders to define the functional and non-functional requirements for a system or product. The goal of requirement analysis is to ensure a clear understanding of what needs to be built and to establish a solid foundation for the development process. In the case of software requirement for our project are:

i. Hardware requirements

- Laptop

ii. Technologies used

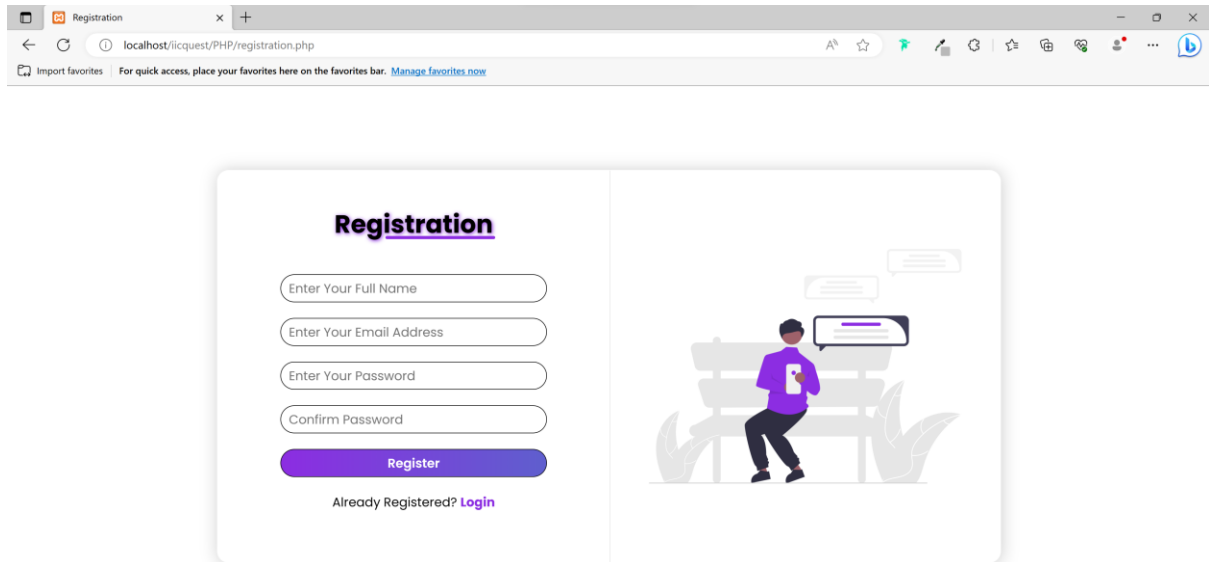
- Html, CSS, Java Script
- PHP
- MySQL

iii. Software used

- Figma
- Xampp
- Vs Code

3.2. Design

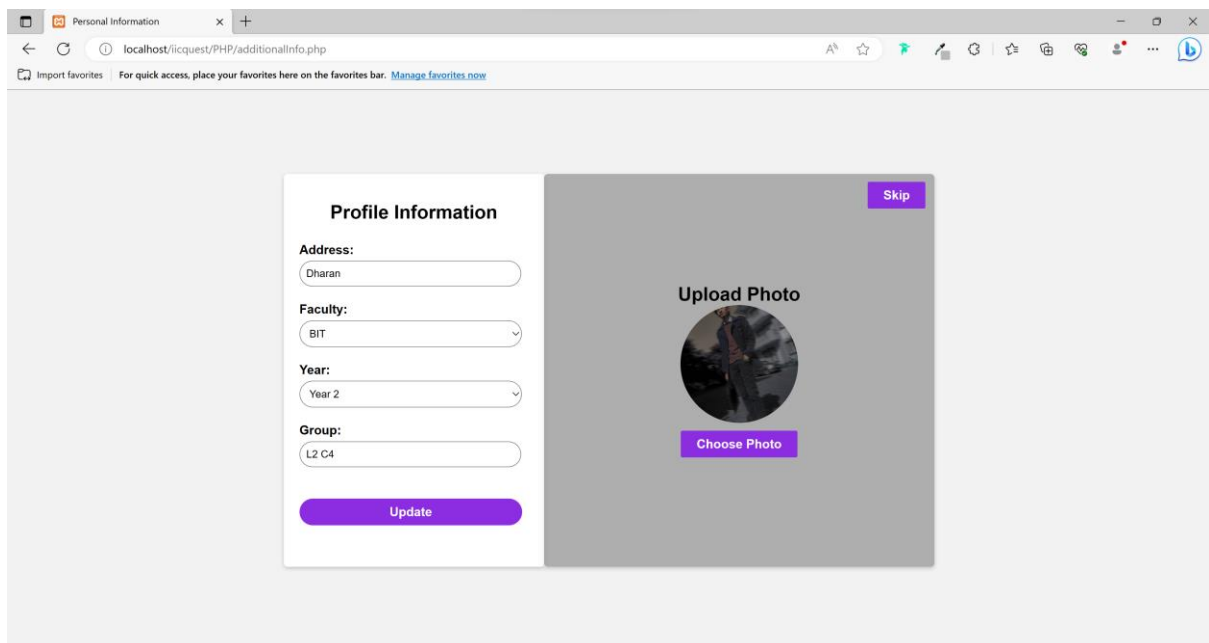
3.2.1. Register Page



The screenshot shows a web browser window with the address bar displaying 'localhost/iicquest/PHP/registration.php'. The page title is 'Registration'. The main content area is divided into two columns. The left column contains a registration form with the following elements: a title 'Registration' in bold purple text, four input fields labeled 'Enter Your Full Name', 'Enter Your Email Address', 'Enter Your Password', and 'Confirm Password', a purple 'Register' button, and a link 'Already Registered? Login'. The right column features an illustration of a person sitting on a bench, looking at a smartphone, with speech bubbles above them.

Figure 1: Registration page.

3.2.2. Additional information page



The screenshot shows a web browser window with the address bar displaying 'localhost/iicquest/PHP/additionalInfo.php'. The page title is 'Personal Information'. The main content area is divided into two columns. The left column contains a 'Profile Information' form with the following elements: a title 'Profile Information' in bold black text, four input fields labeled 'Address:', 'Faculty:', 'Year:', and 'Group:', each with a dropdown arrow, and a purple 'Update' button. The right column features a large grey area with a circular photo placeholder, a purple 'Skip' button in the top right corner, and a purple 'Choose Photo' button below the placeholder.

Figure 2: Additional information page.

3.2.3. Login Page

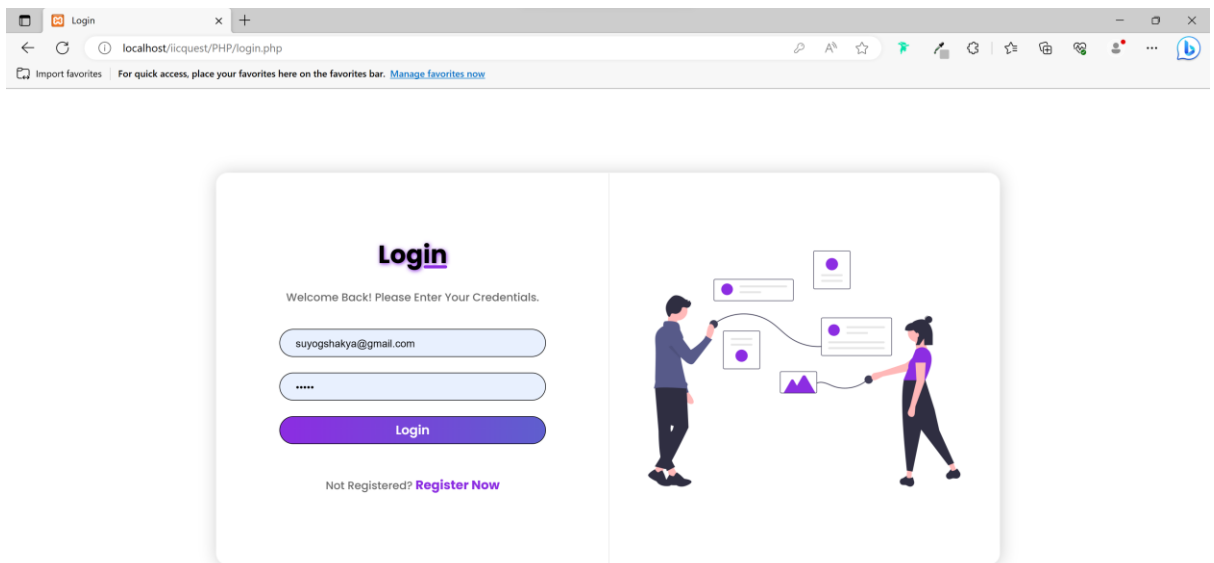


Figure 3: Login Page.

3.2.4. Home Page

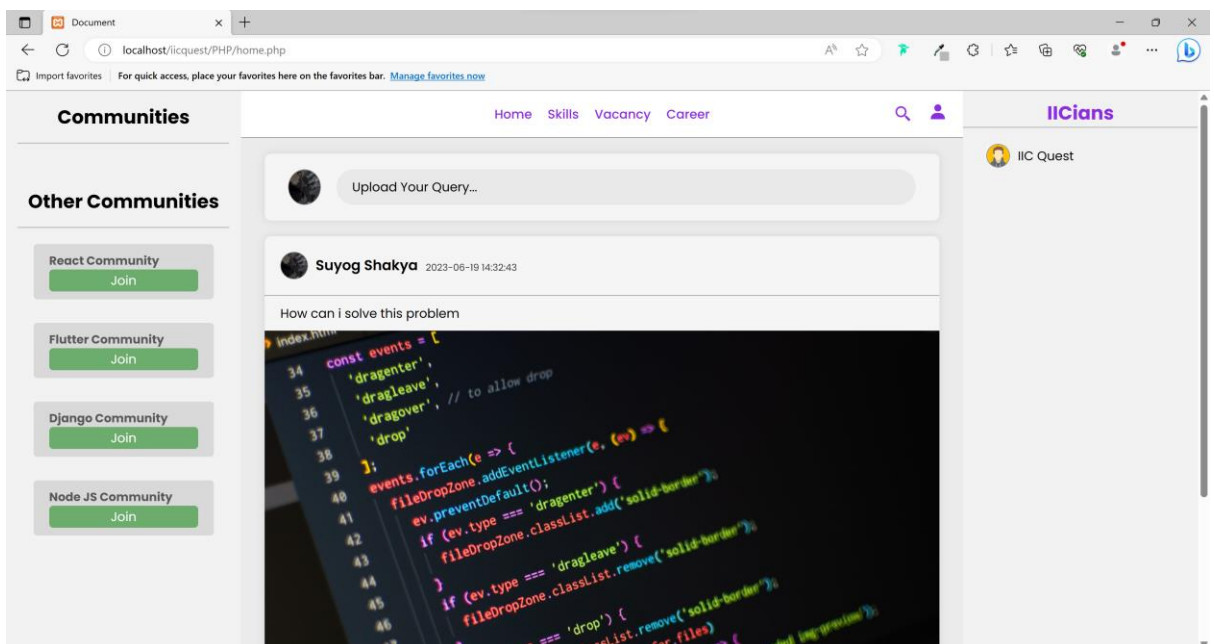


Figure 4: Home Page.

3.2.5. Upload Query

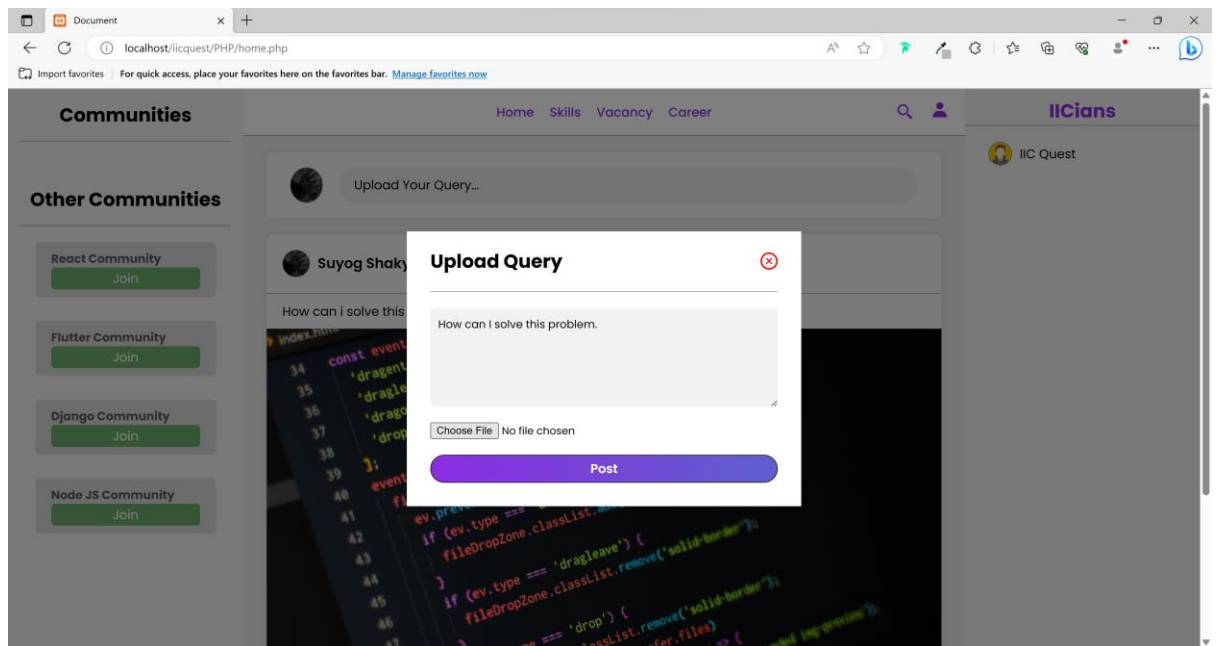


Figure 5: Upload Query Page.

3.2.6. Comments page

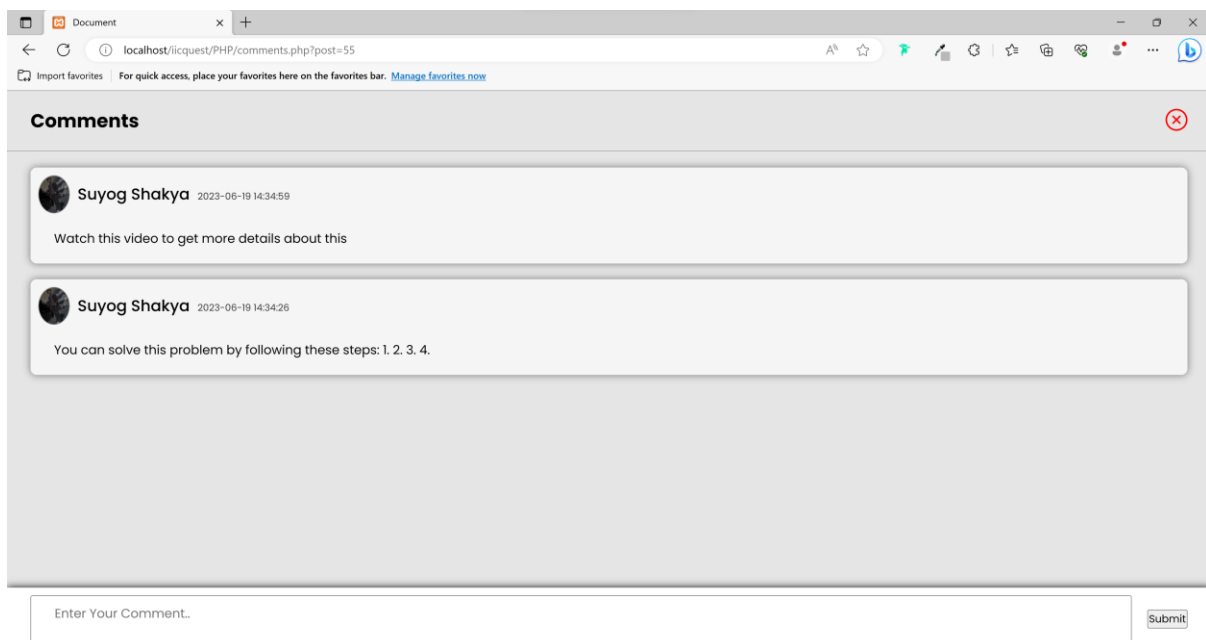


Figure 6: Comments page.

3.2.7. Community Chats

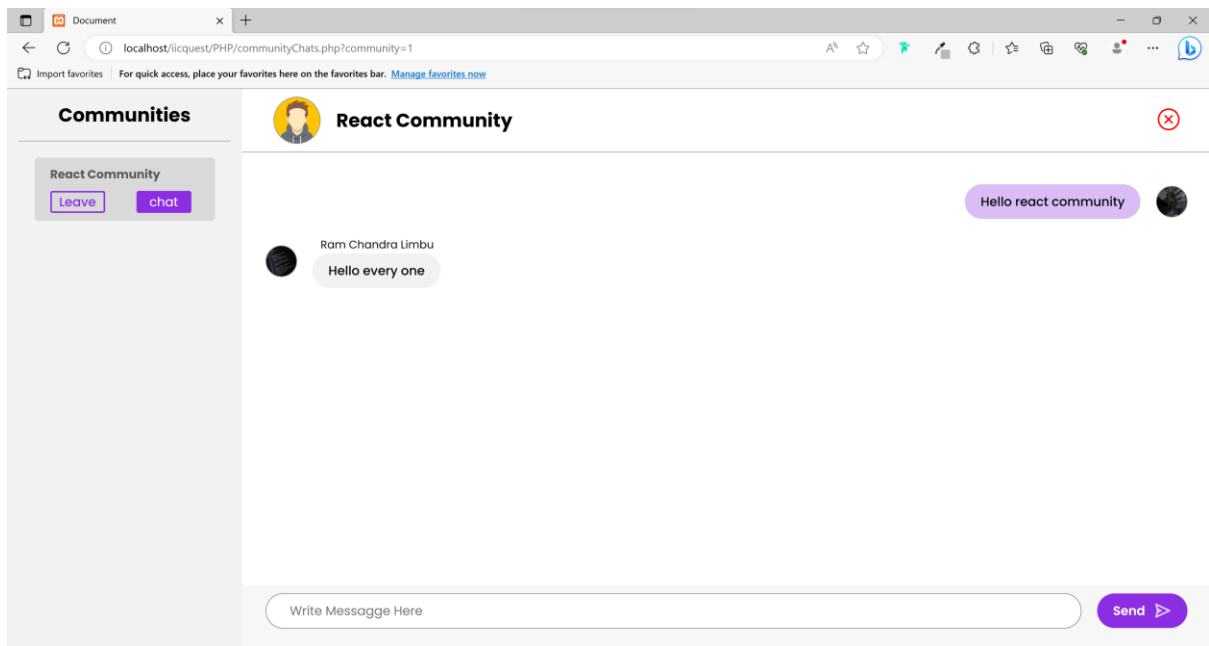


Figure 7: Community Page.

3.2.8. Individual chat

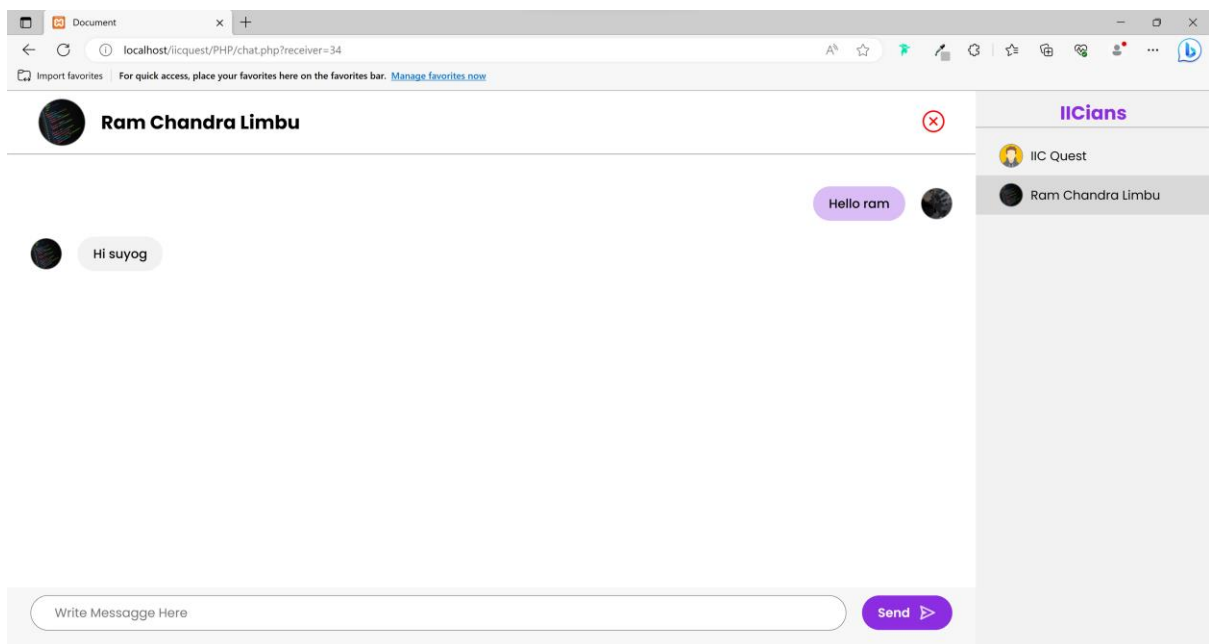


Figure 8: Individual chat page.

3.2.9. Learning Roadmap Page

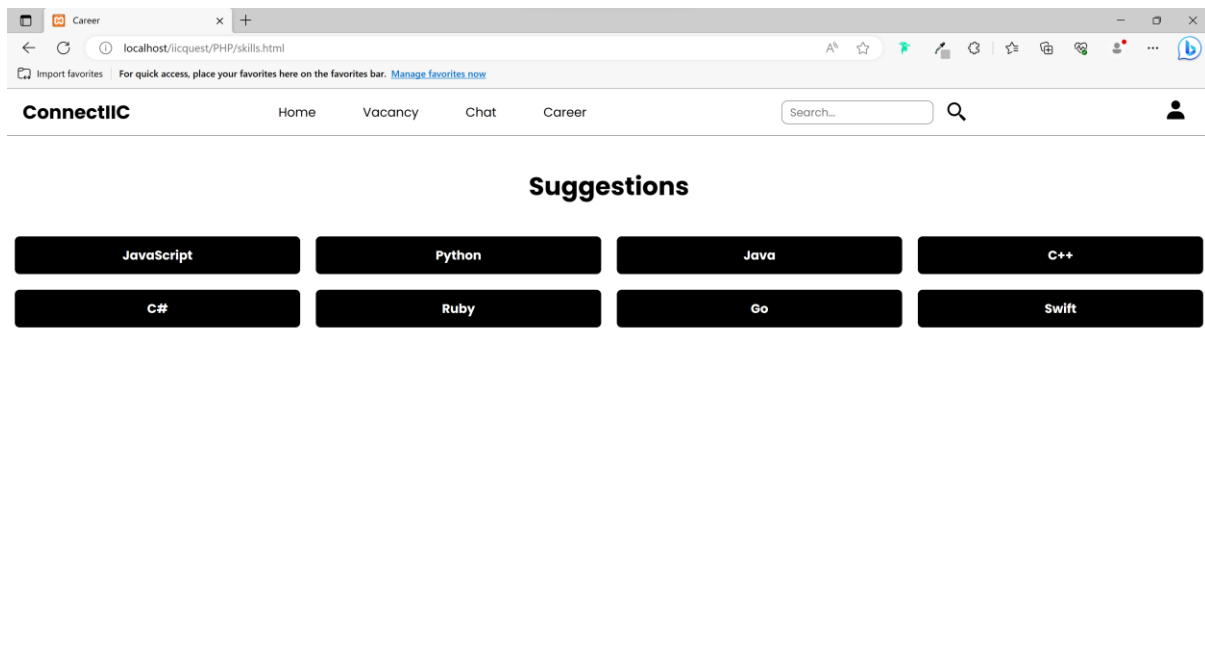


Figure 9: Learning options page.

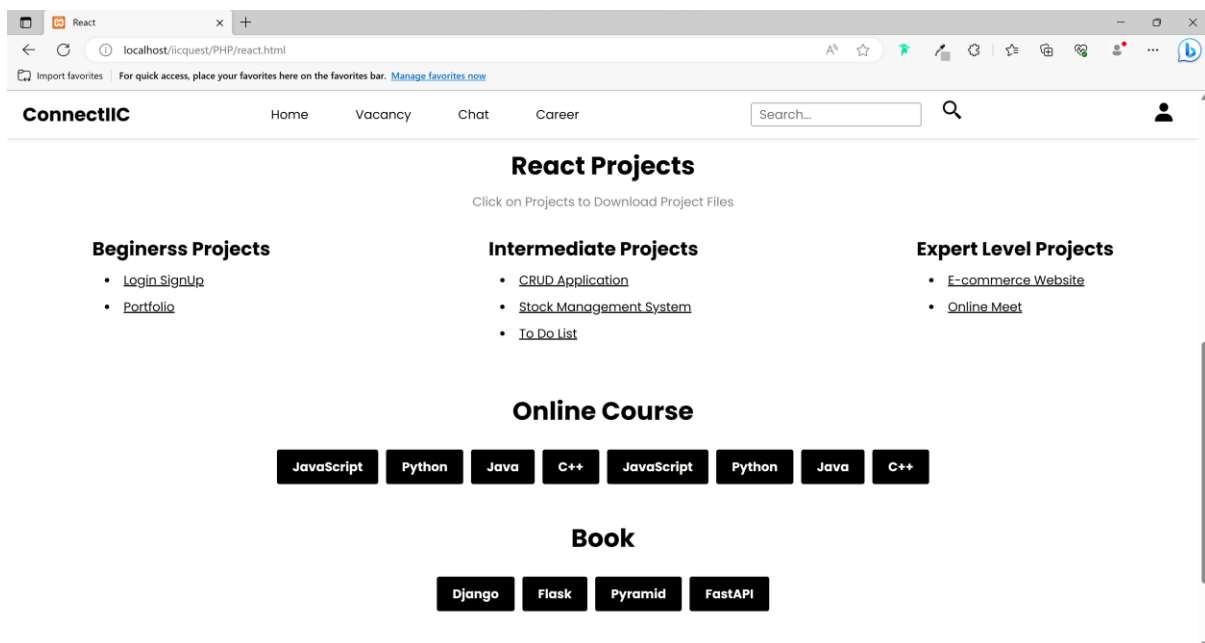


Figure 10: React js learning roadmap.

3.2.10. Job and internship announcement page

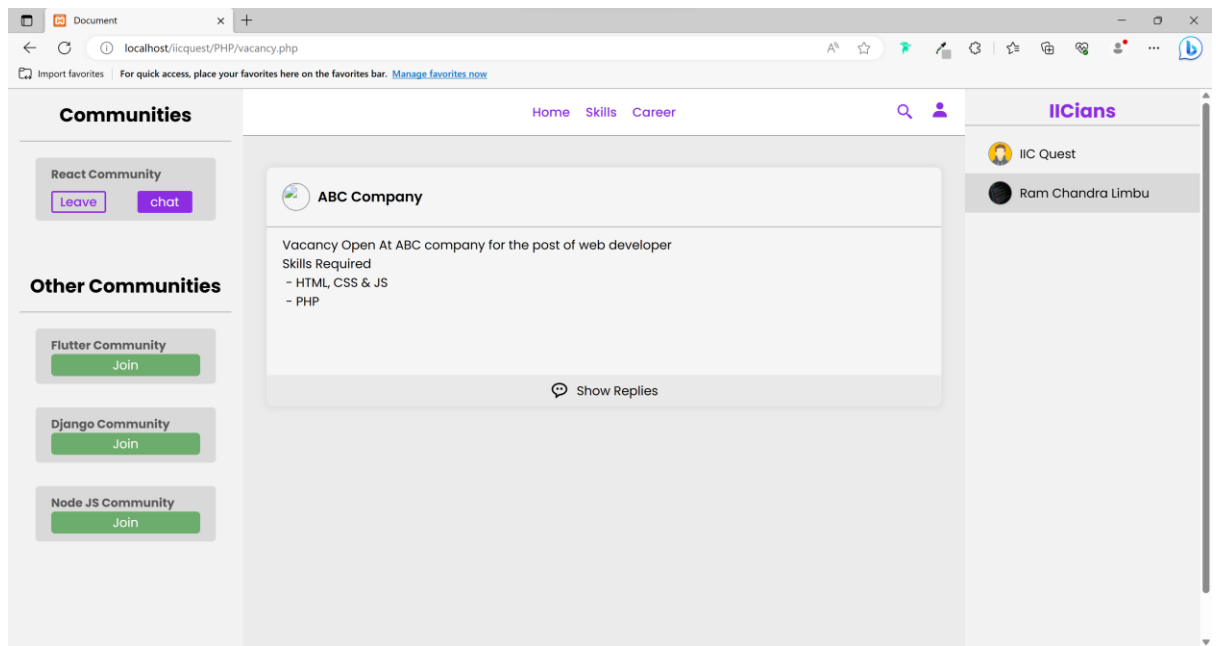


Figure 11: Job and internship announcement page.

3.2.11. User Profile Page

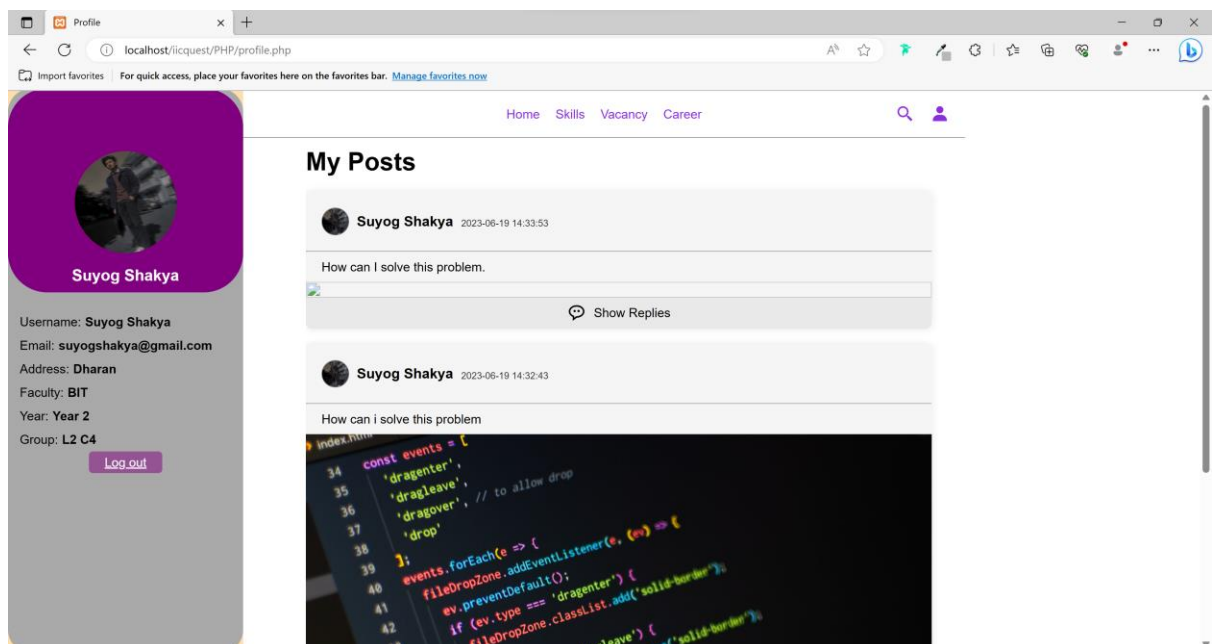
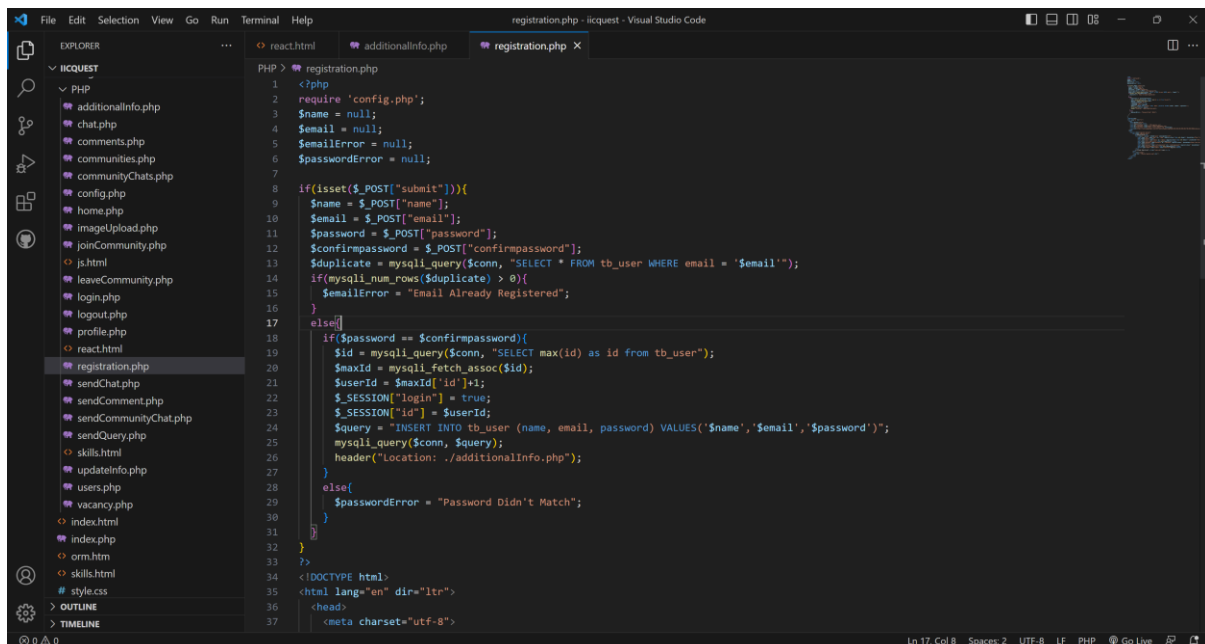


Figure 12: User profile page.

3.3. Implementation

3.3.1. Registration code



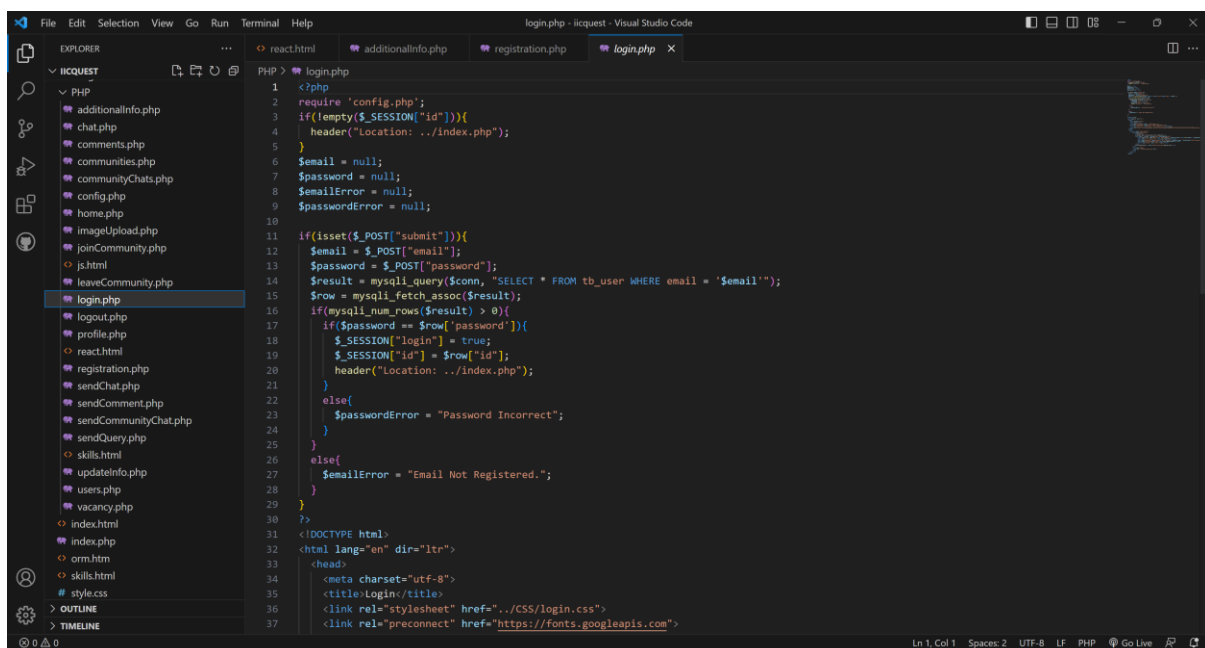
```

1  <?php
2  require 'config.php';
3  $name = null;
4  $email = null;
5  $emailError = null;
6  $passwordError = null;
7
8  if(isset($_POST["submit"])){
9      $name = $_POST["name"];
10     $email = $_POST["email"];
11     $password = $_POST["password"];
12     $confirmpassword = $_POST["confirmpassword"];
13     $duplicate = mysqli_query($conn, "SELECT * FROM tb_user WHERE email = '$email'");
14     if(mysqli_num_rows($duplicate) > 0){
15         $emailError = "Email Already Registered";
16     }
17     else{
18         if($password == $confirmpassword){
19             $id = mysqli_query($conn, "SELECT max(id) as id from tb_user");
20             $maxId = mysqli_fetch_assoc($id);
21             $userId = $maxId['id']+1;
22             $_SESSION["login"] = true;
23             $_SESSION["id"] = $userId;
24             $query = "INSERT INTO tb_user (name, email, password) VALUES('$name','$email','$password')";
25             mysqli_query($conn, $query);
26             header("Location: ../additionalInfo.php");
27         }
28         else{
29             $passwordError = "Password Didn't Match";
30         }
31     }
32 }
33 ?>
34 <!DOCTYPE html>
35 <html lang="en" dir="ltr">
36 <head>
37 <meta charset="utf-8">

```

Figure 13: Registration code.

3.3.2. Login code



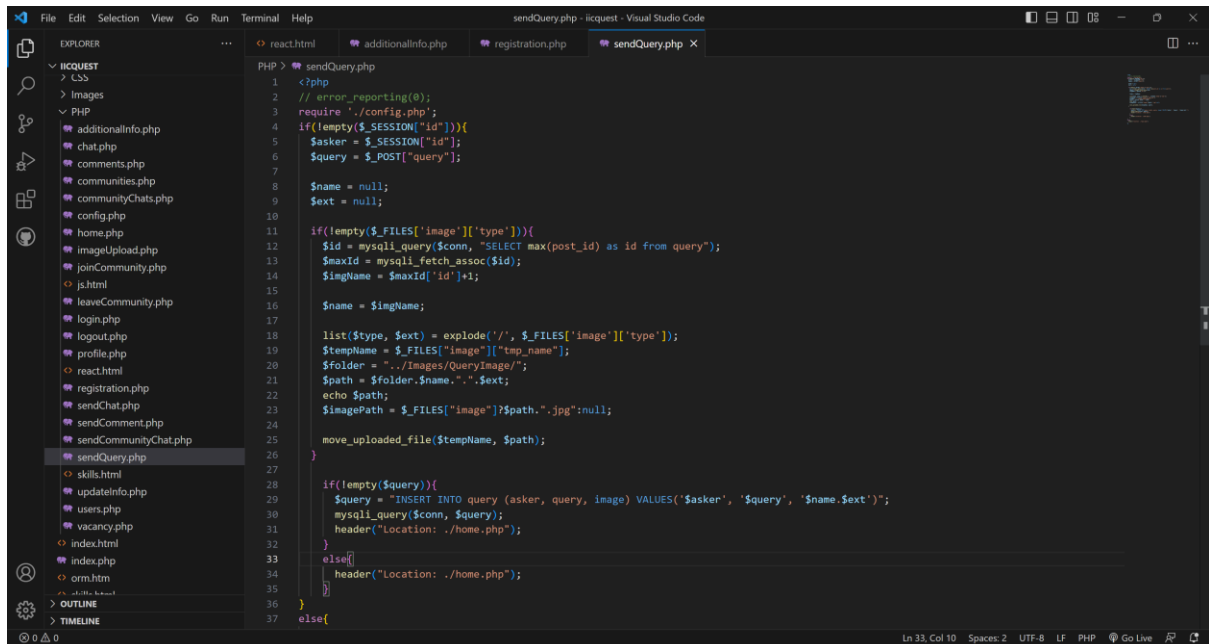
```

1  <?php
2  require 'config.php';
3  if(!empty($_SESSION["id"])){
4      header("Location: ../index.php");
5  }
6  $email = null;
7  $password = null;
8  $emailError = null;
9  $passwordError = null;
10
11 if(isset($_POST["submit"])){
12     $email = $_POST["email"];
13     $password = $_POST["password"];
14     $result = mysqli_query($conn, "SELECT * FROM tb_user WHERE email = '$email'");
15     $row = mysqli_fetch_assoc($result);
16     if(mysqli_num_rows($result) > 0){
17         if($password == $row["password"]){
18             $_SESSION["login"] = true;
19             $_SESSION["id"] = $row["id"];
20             header("Location: ../index.php");
21         }
22         else{
23             $passwordError = "Password Incorrect";
24         }
25     }
26     else{
27         $emailError = "Email Not Registered.";
28     }
29 }
30 ?>
31 <!DOCTYPE html>
32 <html lang="en" dir="ltr">
33 <head>
34 <meta charset="utf-8">
35 <title>Login</title>
36 <link rel="stylesheet" href="../CSS/login.css">
37 <link rel="preconnect" href="https://fonts.googleapis.com">

```

Figure 14: Login code.

3.3.3. Upload query code



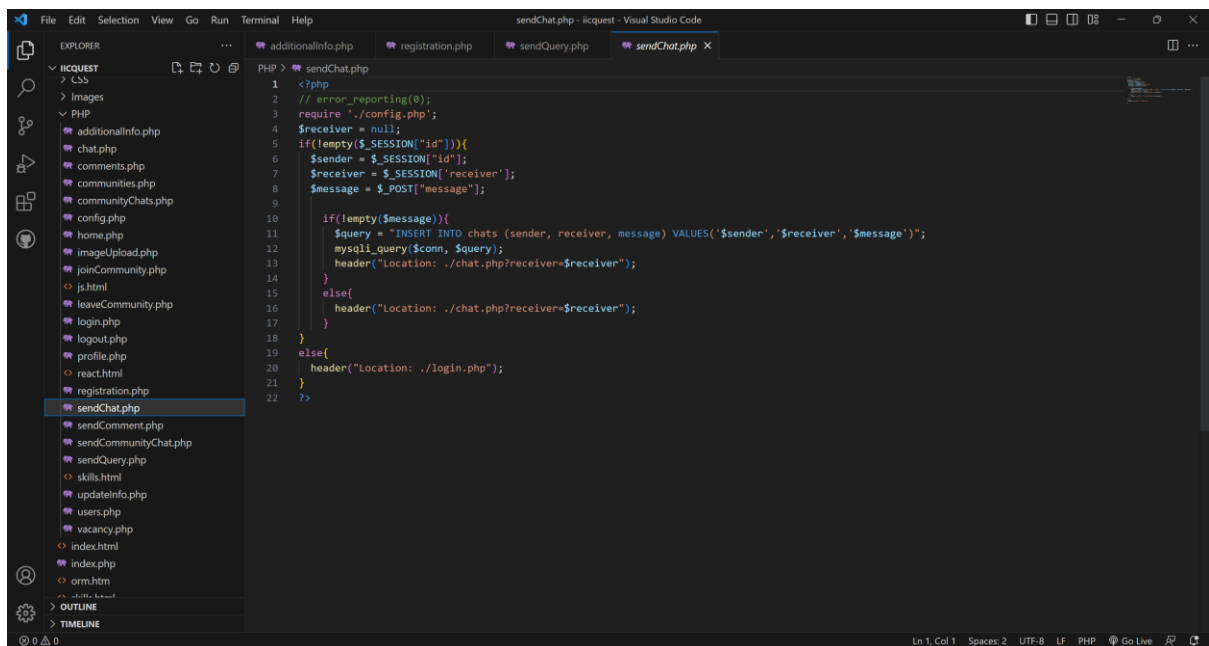
```

1 <?php
2 // error_reporting(0);
3 require './config.php';
4 if(empty($_SESSION["id"])){
5     $asker = $_SESSION["id"];
6     $query = $_POST["query"];
7
8     $name = null;
9     $ext = null;
10
11     if(empty($_FILES["image"]["type"])){
12         $id = mysqli_query($conn, "SELECT max(post_id) as id from query");
13         $maxId = mysqli_fetch_assoc($id);
14         $imageName = $maxId["id"]+1;
15
16         $name = $imageName;
17
18         list($type, $ext) = explode('/', $_FILES["image"]["type"]);
19         $tempName = $_FILES["image"]["tmp_name"];
20         $folder = "../Images/QueryImage/";
21         $path = $folder.$name.".$ext";
22         echo $path;
23         $imagePath = $_FILES["image"]['path'].".jpg";
24
25         move_uploaded_file($tempName, $path);
26     }
27
28     if(empty($query)){
29         $query = "INSERT INTO query (asker, query, image) VALUES('$asker', '$query', '$name.$ext')";
30         mysqli_query($conn, $query);
31         header("Location: ../home.php");
32     }
33     else{
34         header("Location: ../home.php");
35     }
36 }
37 else{

```

Figure 15: Upload query code.

3.3.4. Send chat code



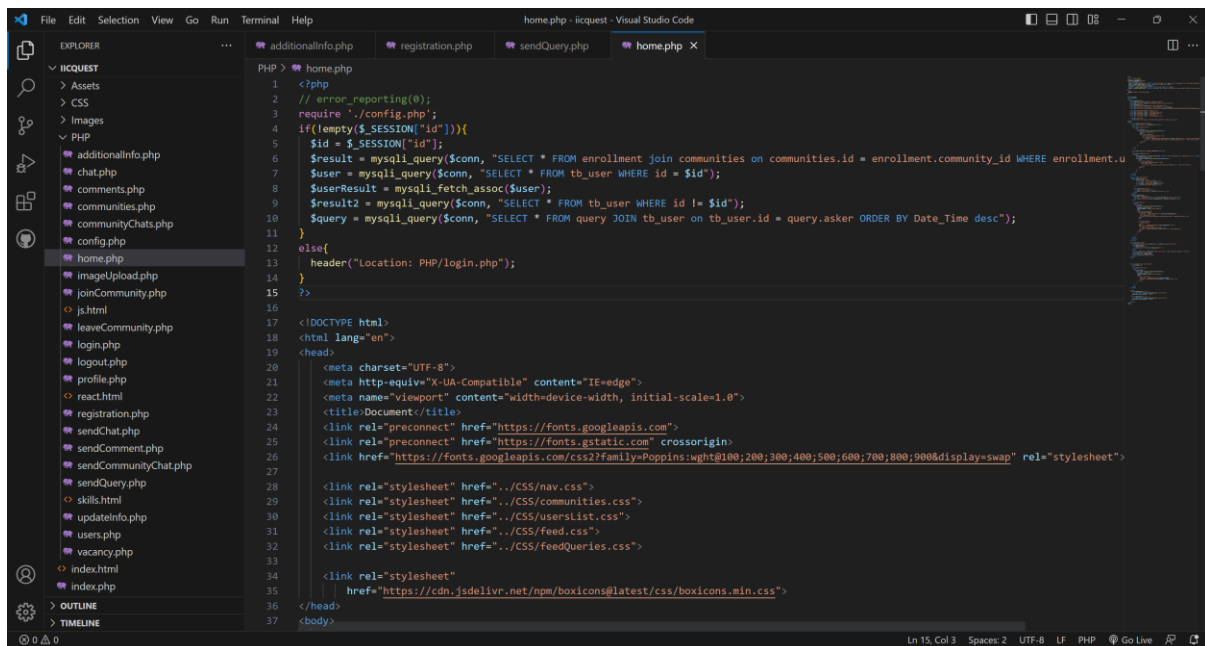
```

1 <?php
2 // error_reporting(0);
3 require './config.php';
4 $receiver = null;
5 if(empty($_SESSION["id"])){
6     $sender = $_SESSION["id"];
7     $receiver = $_SESSION["receiver"];
8     $message = $_POST["message"];
9
10     if(empty($message)){
11         $query = "INSERT INTO chats (sender, receiver, message) VALUES('$sender', '$receiver', '$message')";
12         mysqli_query($conn, $query);
13         header("Location: ../chat.php?receiver=$receiver");
14     }
15     else{
16         header("Location: ../chat.php?receiver=$receiver");
17     }
18 }
19 else{
20     header("Location: ../login.php");
21 }
22 ?>

```

Figure 16: Send chat code.

3.3.5. Fetch query code



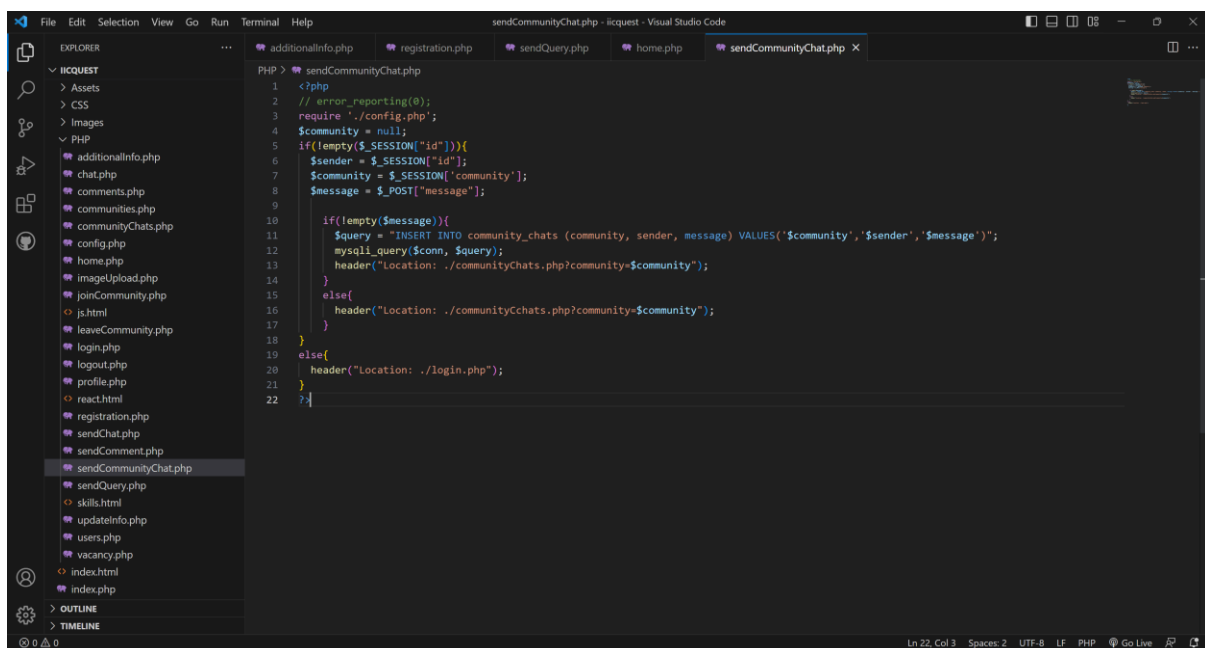
```

1 <?php
2 // error_reporting(0);
3 require './config.php';
4 if(empty($_SESSION["id"])){
5     $id = $_SESSION["id"];
6     $result = mysqli_query($conn, "SELECT * FROM enrollment join communities on communities.id = enrollment.community_id WHERE enrollment.u");
7     $user = mysqli_query($conn, "SELECT * FROM tb_user WHERE id = $id");
8     $userResult = mysqli_fetch_assoc($user);
9     $result2 = mysqli_query($conn, "SELECT * FROM tb_user WHERE id != $id");
10    $query = mysqli_query($conn, "SELECT * FROM query JOIN tb_user on tb_user.id = query. asker ORDER BY Date_Time desc");
11 }
12 else{
13     header("Location: PHP/login.php");
14 }
15 ?>
16
17 <!DOCTYPE html>
18 <html lang="en">
19 <head>
20     <meta charset="UTF-8">
21     <meta http-equiv="X-UA-Compatible" content="IE=edge">
22     <meta name="viewport" content="width=device-width, initial-scale=1.0">
23     <title>Document</title>
24     <link rel="preconnect" href="https://fonts.googleapis.com">
25     <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
26     <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@100;200;300;400;500;600;700;800;900&display=swap" rel="stylesheet">
27
28     <link rel="stylesheet" href="../CSS/nav.css">
29     <link rel="stylesheet" href="../CSS/communities.css">
30     <link rel="stylesheet" href="../CSS/userslist.css">
31     <link rel="stylesheet" href="../CSS/feed.css">
32     <link rel="stylesheet" href="../CSS/feedQueries.css">
33
34     <link rel="stylesheet"
35         href="https://cdn.jsdelivr.net/npm/boxicons@latest/css/boxicons.min.css">
36 </head>
37 <body>

```

Figure 17: Fetch query in homepage code.

3.3.6. Community chat code



```

1 <?php
2 // error_reporting(0);
3 require './config.php';
4 $community = null;
5 if(empty($_SESSION["id"])){
6     $sender = $_SESSION["id"];
7     $community = $_SESSION["community"];
8     $message = $_POST["message"];
9
10    if(empty($message)){
11        $query = "INSERT INTO community_chats (community, sender, message) VALUES('$community', '$sender', '$message')";
12        mysqli_query($conn, $query);
13        header("Location: ../communityChats.php?community=$community");
14    }
15    else{
16        header("Location: ../communityCchats.php?community=$community");
17    }
18 }
19 else{
20     header("Location: ../login.php");
21 }
22 ?>

```

Figure 18: Community chat code.

3.3.7. Show community messages code

```

41 <?php echo $communityName?></h2>
43 </div>
44 <a href="/home.php"><i class="bx bx-x"></i></a>
45 </div>
46 <hr>
47 <div class="messages" id="messages">
48 <?php
49 $result = mysqli_query($conn, "SELECT * FROM community_chats JOIN tb_user ON community_chats.sender = tb_user.id WHERE community
50 if ($result) {
51 while ($row = mysqli_fetch_assoc($result)) {
52 if ($row['sender'] == $sender) {
53 echo "
54 <span class='msg sent-msg'>
55 <p>". $row['message'] . "</p>
56 <img src='../Images/UserProfile/'. $row['profile_image'] . ">
57 </span>";
58 }
59 else {
60 echo "
61 <span class='msg received-msg'>
62 <img src='../Images/UserProfile/'. $row['profile_image'] . ">
63 <div>
64 <span>". $row['name'] . "</span>
65 <p>". $row['message'] . "</p>
66 </div>
67 </span>";
68 }
69 }
70 }
71 </div>
72 <form action="sendCommunityChat.php" method="post">
73 <input type="text" name="message" placeholder="Write Message Here">
74 <button type="submit">Send <i class="bx bx-send"></i></button>
75 </form>
76 </section>
77

```

Figure 19: Show community chat code.

4. Analysis

4.1. Critical Analysis

SWOT analysis

SWOT analysis is a strategic planning tool used to assess the strengths, weaknesses, opportunities, and threats of a business, project, or organization. It provides a structured framework for evaluating internal and external factors that can impact the success or failure of a venture. The acronym SWOT stands for:

Strength: Strength of our system is, this system really helpful to communicate and collaborate with the friends, seniors, junior, teacher and other staffs of college. Student can share and academic problem and confusion. Student also can take a help to allocate career allocation from this system

Weakness: First weakness of this system is it is not fully developed, realtime chatting is properly implemented, we can solve this problem by using web socket. Currently in this system Alumni are not included this is our weakness.

Opportunity: This type of social learning platform not build ever, So this system carries many opportunities of success, this system can be the one the great learning platform.

Threat: The threat of this system is this is new software are so all people are not familiar with this system. Some people can also do sexual harassment from this system.

5. Conclusion

5.1. Future Work

This system is not fully developed so many features are not integrated in this system, audio and video call are implement in future. This feature helps to proper communication for user And student can also take a online meeting. We are planning to add project showcase section there student can show there project and can view other project. In future recommendation for career in skill section by using AI or ML. Alumni also include in future, which are really helpful for student to get internship, job and for startup idea.

We can also integrate IOT and keep live records of the lecture sessions and provide lecture videos to students so that they can follow and revise all the lecture contents and teachers' session.