

PROJECT EXHIBITION 2



INTRODUCING THE TEAM

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PROJECT GUIDE

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INTRODUCTION

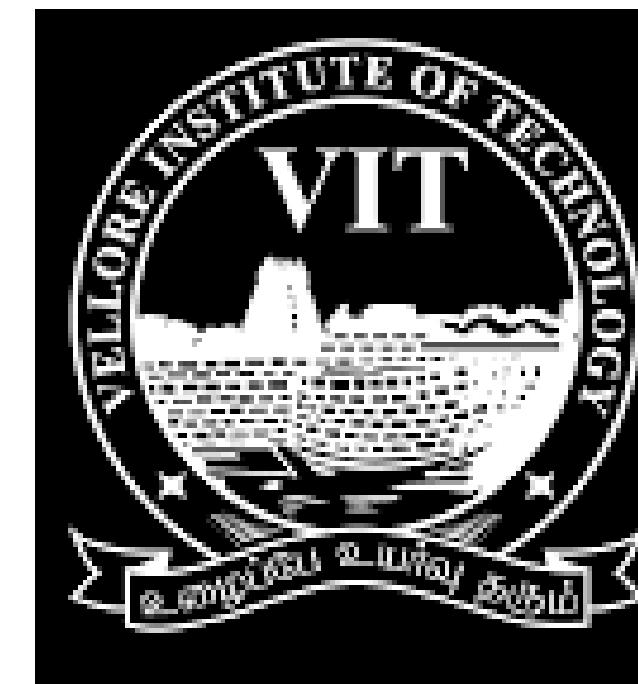
VIT Bhopal is one of a kind in the sense it has a fully doctorate faculty. With such a research driven faculty, research is one of the standing points at VIT Bhopal University. The professors at VIT Bhopal hence conduct a variety of research projects that requires interns that are students mainly. Our purpose is to help ease the process of student recruitment in University.

Hence we have decided to create a dedicated portal to showcase available and ongoing research projects for students to apply for as well as faculty to hire from.



PROPOSED WORK AND METHODOLOGY

A LOT OF STUDENTS INTERESTED IN THE RESEARCH FIELD DON'T GET THE RIGHT OPPORTUNITIES BECAUSE OF LACK OF KNOWLEDGE. HENCE WE HAVE DECIDED TO CREATE A DEDICATED PORTAL TO SHOWCASE AVAILABLE AND ONGOING RESEARCH PROJECTS FOR STUDENTS TO APPLY FOR AS WELL AS FACULTY TO HIRE FROM.



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It will be an interactive interface that will not only help students apply to research projects and professors hire research interns but also help keep track of the progress alongside a report of previous and ongoing projects. It will also contain blogs of published research papers and renowned work in this field by the university to help encourage students to go forth in the field of research. We have planned to have a filter feature that will help students find projects in their domain of interest and skills.

NOVELTY OF THE PROJECT

The novelty of this dedicated research portal lies in its comprehensive and interactive nature. This platform aims to bring together students and faculty members in the field of research by providing a one-stop solution for students to explore available research opportunities and for faculty members to hire interns for their projects.

The portal's unique features, such as the filter feature and the track of progress of ongoing projects, make it stand out from other conventional methods of finding research projects. The inclusion of blogs on published research papers and renowned work in the field will also provide valuable insights and inspiration for students who are interested in pursuing a career in research.

This platform not only helps bridge the gap between students and research opportunities but also provides a centralized location to keep track of the progress and impact of research projects in the university. By providing a platform that streamlines the process of finding and participating in research projects, this portal aims to promote and encourage students to engage in the exciting world of research.

REAL TIME USAGE

For Students:

- Students can use the portal to search for available and ongoing research projects that match their interests and skills.
- The filter feature helps them quickly and easily find projects in their area of expertise.
- They can apply for the projects directly through the portal.
- Students can also track the progress of their applications and stay informed about the status of their submissions.
- The portal provides access to blogs on published research papers and renowned work in the field, inspiring students to pursue research and stay updated on current developments in the field.

For Faculty Members:

- Faculty members can post and manage their ongoing research projects on the portal.
- They can use the portal to search for and hire research interns who are interested and qualified for their projects.
- The interactive interface allows them to keep track of the progress of the research interns they hire.
- Faculty members can access a report of previous and ongoing projects in the university, providing valuable insights into the research activities happening within the institution.

In conclusion, the dedicated research portal offers a real-time solution for students and faculty members to explore, participate, and keep track of research projects within the university. The platform provides a centralized location for collaboration, information sharing, and tracking the impact of research activities in real-time.

LIMITATIONS OF OUR PROJECT

- website is only in one language (English).
- May show some glitches in future versions of web browsers.
- Only the website is available.

Module-wise split-up

THE FRONT END

HTML

CSS

JAVASCRIPT

Bootstrap

As mentioned earlier, the Frontend is just the component that the user can directly interact with. The main purpose of the Frontend is provide a base which the user can use and navigate through easily. There is a lot of emphasis on beautification, ranging from simplistic, minimal web apps to very sophisticated, aesthetically pleasing web apps.

For the longest, the best way to do this was using vanilla HTML, CSS, and JavaScript. Later on, modern frameworks like React, TailwindCSS, Bootstraps, etc have developed, which make this process a lot easier and smoother.

HTML:

HTML is basically the standard markup language for creating web pages i.e, the skeleton of a webpage. Its compatible on all popular browsers (Chrome, Firefox, Safari, IE9, and Opera)

CSS:

Cascading Style Sheets. As the name suggests, it's used to style a web page i.e, how a site is displayed on a browser. CSS is unique in that it doesn't create any new elements, like HTML or JavaScript. Instead, it's a language used to style HTML elements. There are many frameworks like TailwindCSS that make this process a piece of cake.

JAVASCRIPT:

JavaScript is a scripting or programming language that allows you to implement complex features on web pages. Every time a web page does more than just sit there and display static information for you to look at – displaying timely content updates, interactive maps, animated 2D/3D graphics, scrolling video jukeboxes, etc. – you can bet that JavaScript is probably involved.

BOOTSTRAP:

Bootstrap is a free, open source front-end development framework for the creation of websites and web apps. Designed to enable responsive development of mobile-first websites, Bootstrap provides a collection of syntax for template designs.

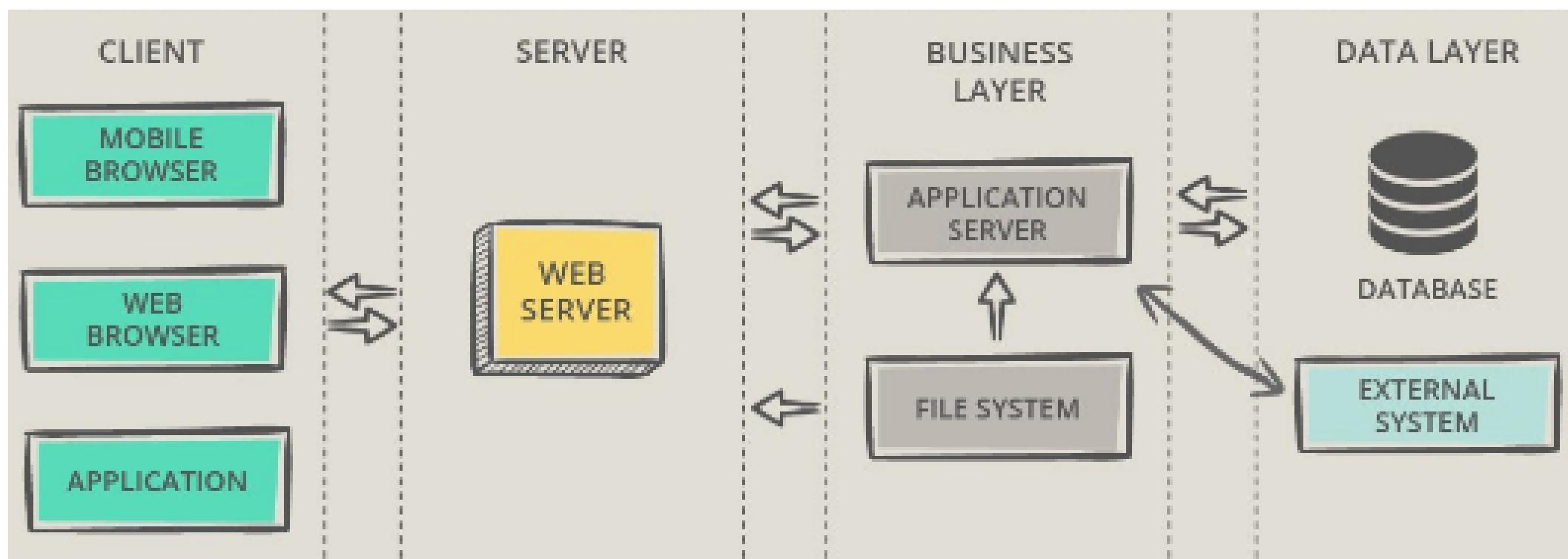
BACKEND

PHP

PHP is an acronym for "PHP: Hypertext Preprocessor". The abbreviation PHP initially stood for Personal Homepage. But now it is a recursive acronym for Hypertext Preprocessor. PHP is an open-source server-side scripting language that many developers use for web development. It is also a general-purpose language that you can use to make lots of projects, including Graphical User Interfaces. PHP is mostly used for making web servers. It runs on the browser and is also capable of running in the command line. A number of established companies and tech giants use PHP to run their servers and make a lot of incredible things.

THE ARCHITECTURE

Web Application Architecture



The web application architecture describes the interactions between applications, databases, and middleware systems on the web. It ensures that multiple applications work simultaneously.

A typical web app is divided into two main parts:

- Client-side code or the Frontend: The code that is in the browser and responds to some user input. HTML, CSS, and JavaScript are used to write the Frontend.
- Server-side code or the Backend: The code that is on the server and responds to the HTTP requests. There are a lot of things that can be used to write the Backend. For eg: Java, Python, PHP, Ruby, etc.

LITERATURE REVIEW

A literature review for an Research website would involve exploring existing research and information about the researches which are going on . However, little research has been conducted to define the specific elements used in effective website and mobile application design. We attempt to review and consolidate research on effective design and to define a short list of elements frequently used in research. The design elements mentioned most frequently in the reviewed literature were navigation, graphical representation, organization, content utility, purpose, simplicity, and readability. This review and the resulting short list of design elements may be used to help designers and researchers to operationalize best practices for facilitating and predicting user engagement.

MODULE DESCRIPTION

Module 1: Design & implementation

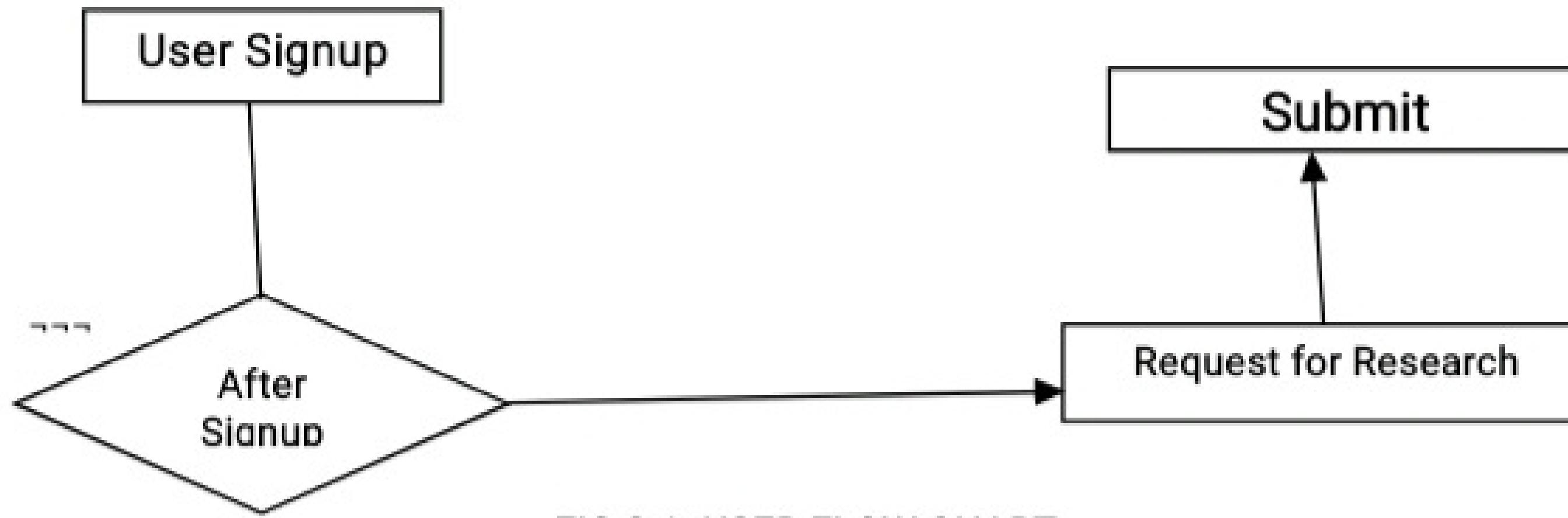
- User Module
- Admin Module

Module 2: Database Design and Tools used

MODULE WORK FLOW EXPLANATION

USER MODULE

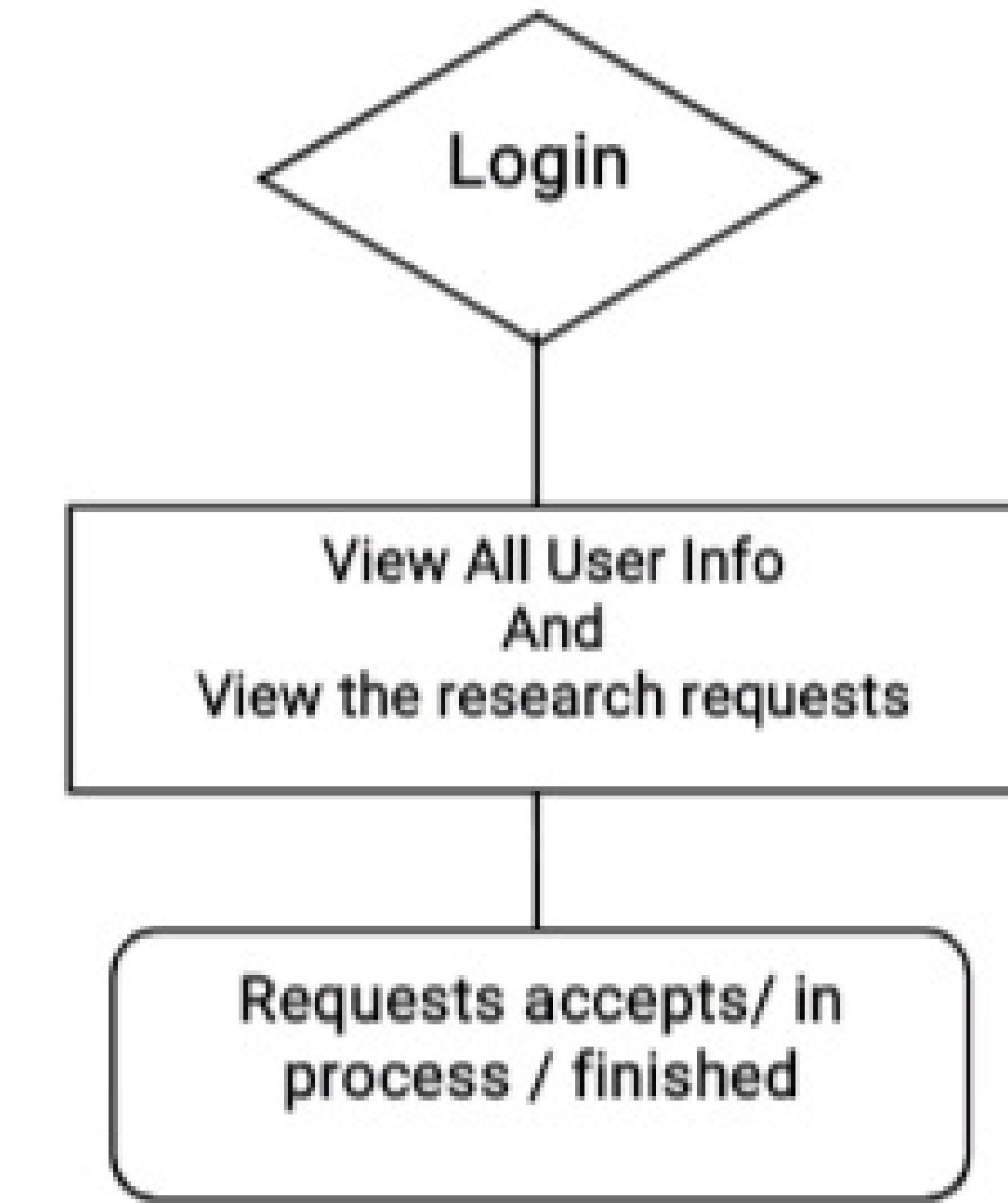
1. User Signup – In this section user can register himself. After successful signup, he/she can sign in into the system.
2. Dashboard: In this section, the user can view the status of his request , applied for research.
3. Research Request: In this section, user can apply for research according to their interest by filling form.
4. Request Status: In this section, user can check his/her application request status which is done by admin which means his/her request is at what step.
5. A user can also update his/ her profile, change the password and recover the password.



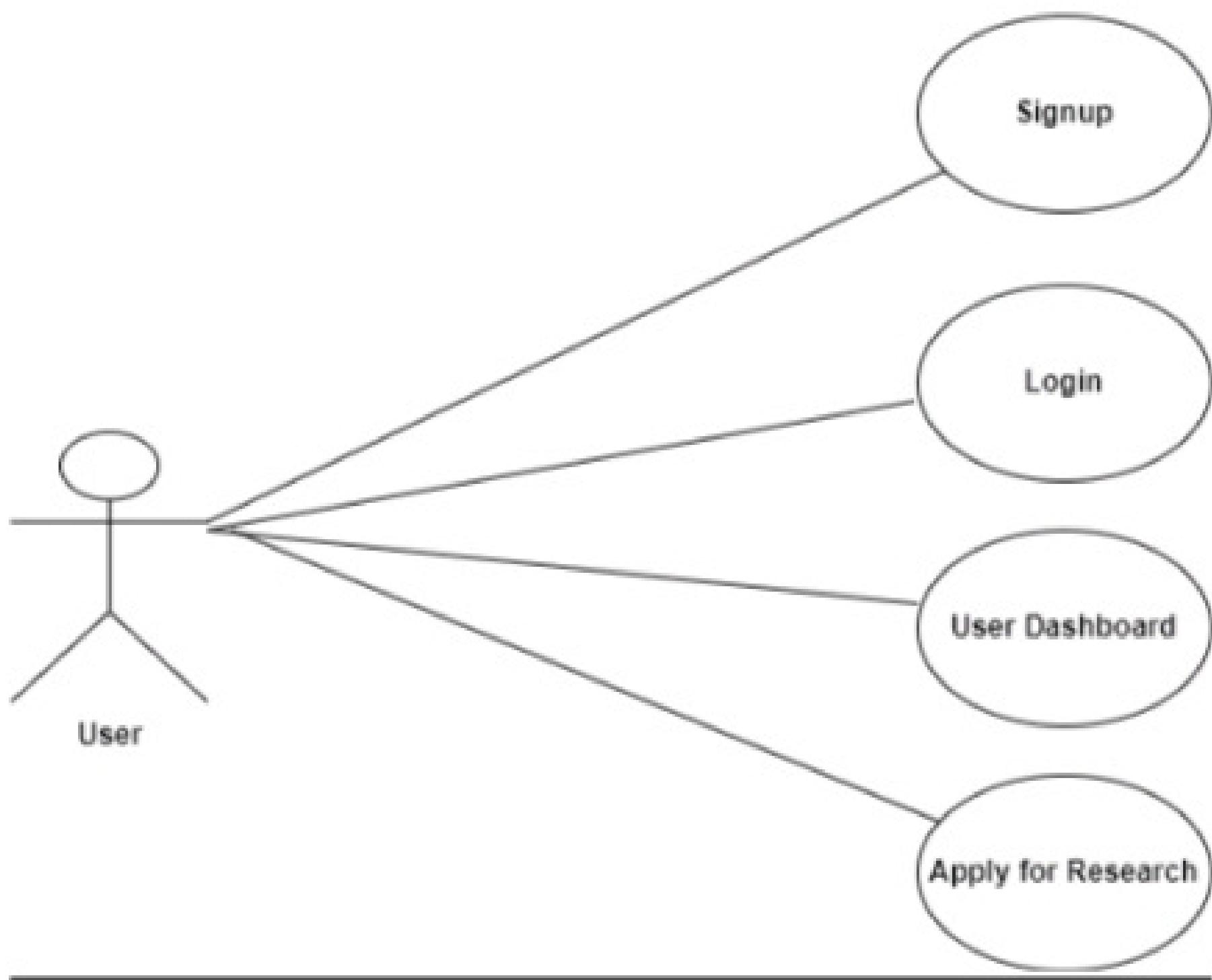
USER FLOW CHART

FACULTY MODULE

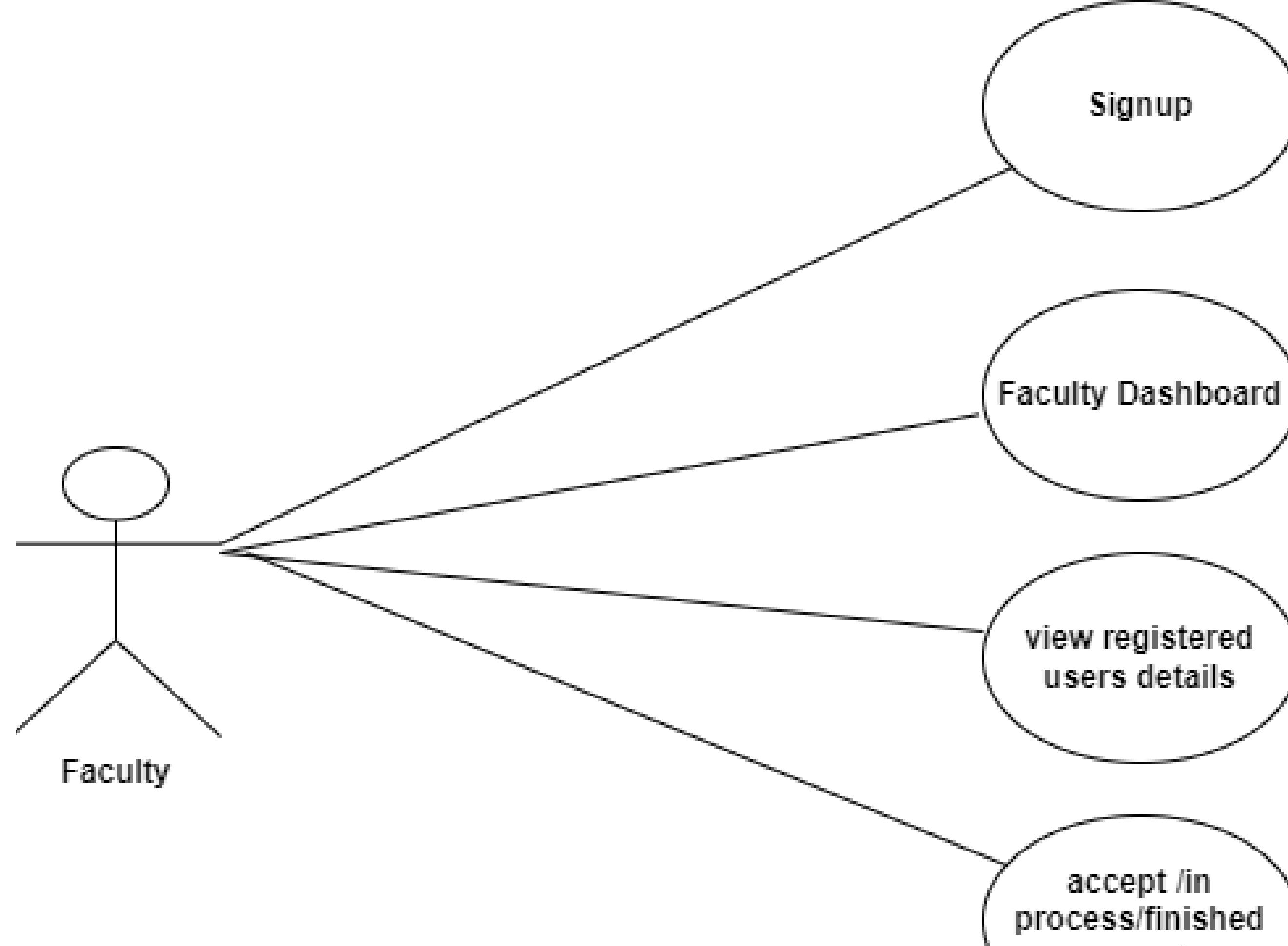
1. Dashboard: In this section, admin can see request of all user(means how many are a new request, accept the request, in-process request and finish request) in brief.
2. Reg Users: In this section, admin can view user detail and update user detail.
3. Reports: In this section, admin can see the research application request according to dates and admin can also count request on the basis of month and year.



FACULTY FLOW CHART



USER CASE FLOW CHART



FACULTY CASE FLOW CHART

IMPLEMENTATION AND CODING

manish > student_interface > connect2.php

```
1  <?php
2      // $Name = $_POST['Name'];
3      $Email_address = $_POST['Email_address'];
4      $Registration_Number = $_POST['Registration_Number'];
5      $Reseach_Code = $_POST['Reseach_Code'];
6      //database connection
7      $conn = new mysqli('localhost','root','','faculty1');
8      if($conn->connect_error){
9          die("Connection Failed :" . $conn->connect_error);
10     }else{
11         $stmt = $conn->prepare("insert into studentapply( Email_address,Registration_Number, Reseach_Code) values( ?, ?, ?,
12             $stmt->bind_param("ssi", $Email_address, $Registration_Number, $Reseach_Code );
13             $execval = $stmt->execute();
14             echo $execval;
15             echo "Registration successfully...";
16             $stmt->close();
17             $conn->close();
18     }
19
20 +    ?>
```

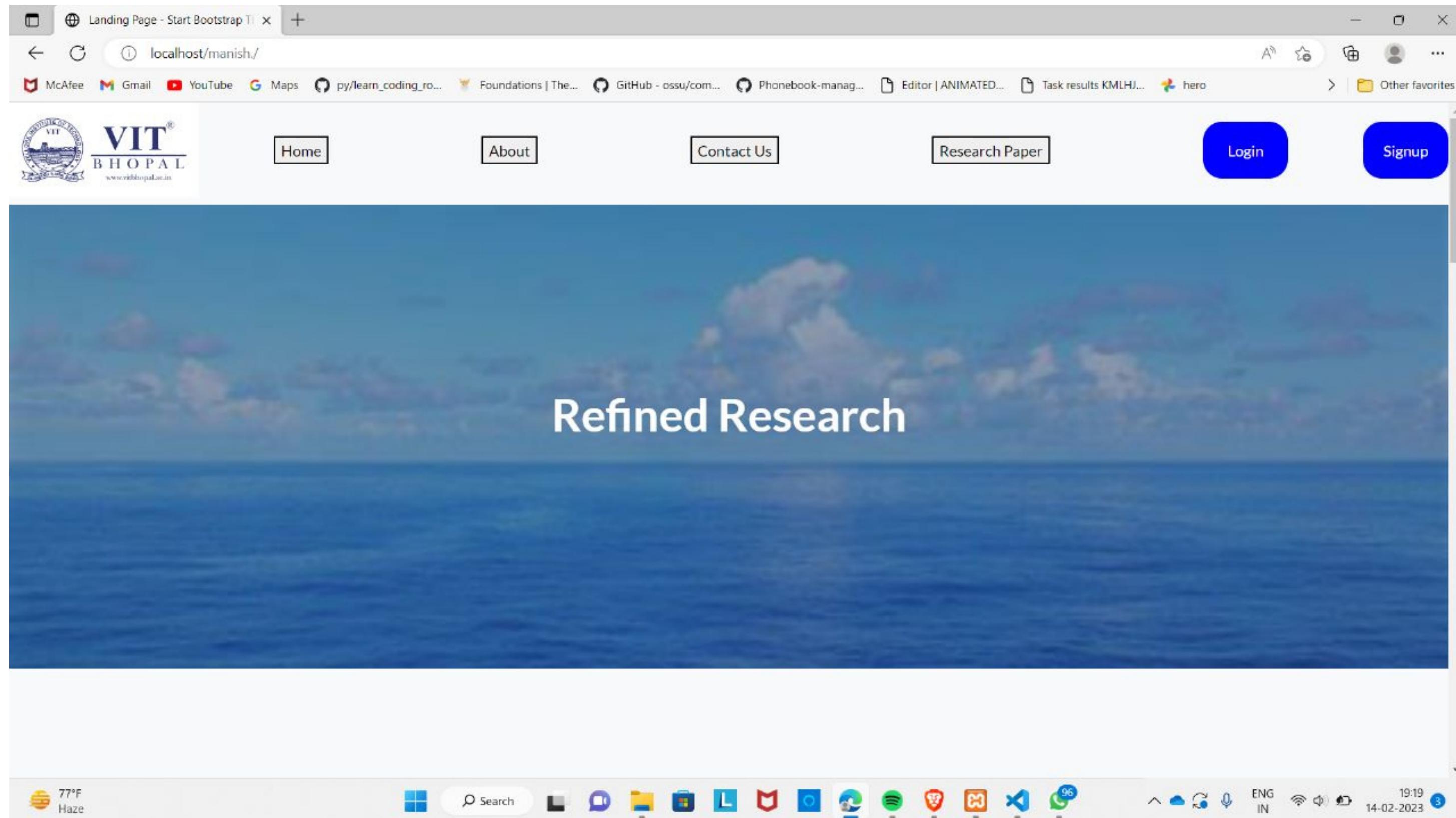
manish > login.php

```
1  <?php
2  session_start();
3  if (isset($_SESSION["user"])) {
4      header("Location: index.php");
5  }
6 ?>
7
8  <!DOCTYPE html>
9  <html lang="en">
10 <head>
11     <meta charset="UTF-8">
12     <meta http-equiv="X-UA-Compatible" content="IE=edge">
13     <meta name="viewport" content="width=device-width, initial-scale=1.0">
14     <title>Student Login</title>
15     <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" integrity="sha384-Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeu0xjz"
16     <link rel="stylesheet" href="loginstyle.css">
17 </head>
18 <body>
19 <div class="header">
20     
21 </div>
22
23 <div class="container">
24 + <h3 align="center">Student Login</h3>
25     <?php
26     if (isset($_POST["login"])) {
27         $email = $_POST["email"];
28         $password = $_POST["password"];
29         require_once "database.php";
30         $sql = "SELECT * FROM users WHERE email = '$email'";
31         $result = mysqli_query($conn, $sql);
32         $user = mysqli_fetch_array($result, MYSQLI_ASSOC);
33         if ($user) {
34             if (password_verify($password, $user["password"])) {
35                 session_start();
36                 $_SESSION["user"] = "yes";
37                 header("Location: student_interface\index.html");
38                 die();
39             }
40         }
41     }
42 </div>
```

manish > login.php

```
31 +         $result = mysqli_query($conn, $sql);
32         $user = mysqli_fetch_array($result, MYSQLI_ASSOC);
33         if ($user) {
34             if (password_verify($password, $user["password"])) {
35                 session_start();
36                 $_SESSION["user"] = "yes";
37                 header("Location: student_interface\index.html");
38                 die();
39             }else{
40                 echo "<div class='alert alert-danger'>Password does not match</div>";
41             }
42         }else{
43             echo "<div class='alert alert-danger'>Email does not match</div>";
44         }
45     }
46     ?>
47 <form action="login.php" method="post">
48
49     <div class="form-group">
50         <input type="email" placeholder="Enter Email:" name="email" class="form-control">
51     </div>
52     <div class="form-group">
53         <input type="password" placeholder="Enter Password:" name="password" class="form-control">
54     </div>
55     <div class="form-btn">
56         <input type="submit" value="Login" name="login" class="btn btn-primary">
57     </div>
58 </form>
59
60     <div><b>Not registered yet <a href="registration.php"><b>Register Here</b></a></b></div>
61
62     <a href="index.php" class="hlink"><b>Click here to go to Homepage</b></a>
63 </div>
64 </body>
65 </html>
```

SNAPSHOTS





Faculty Login

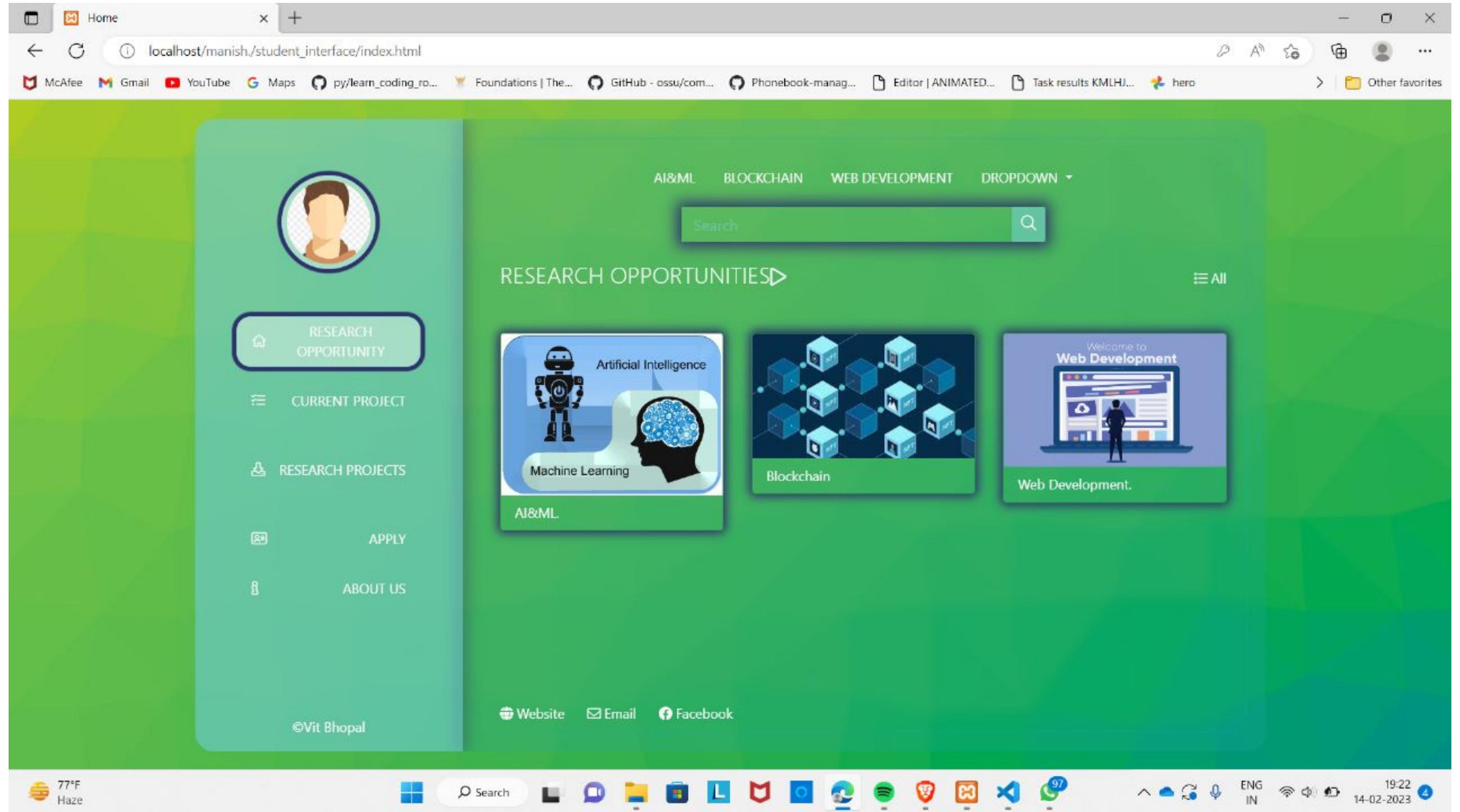
Enter Email:

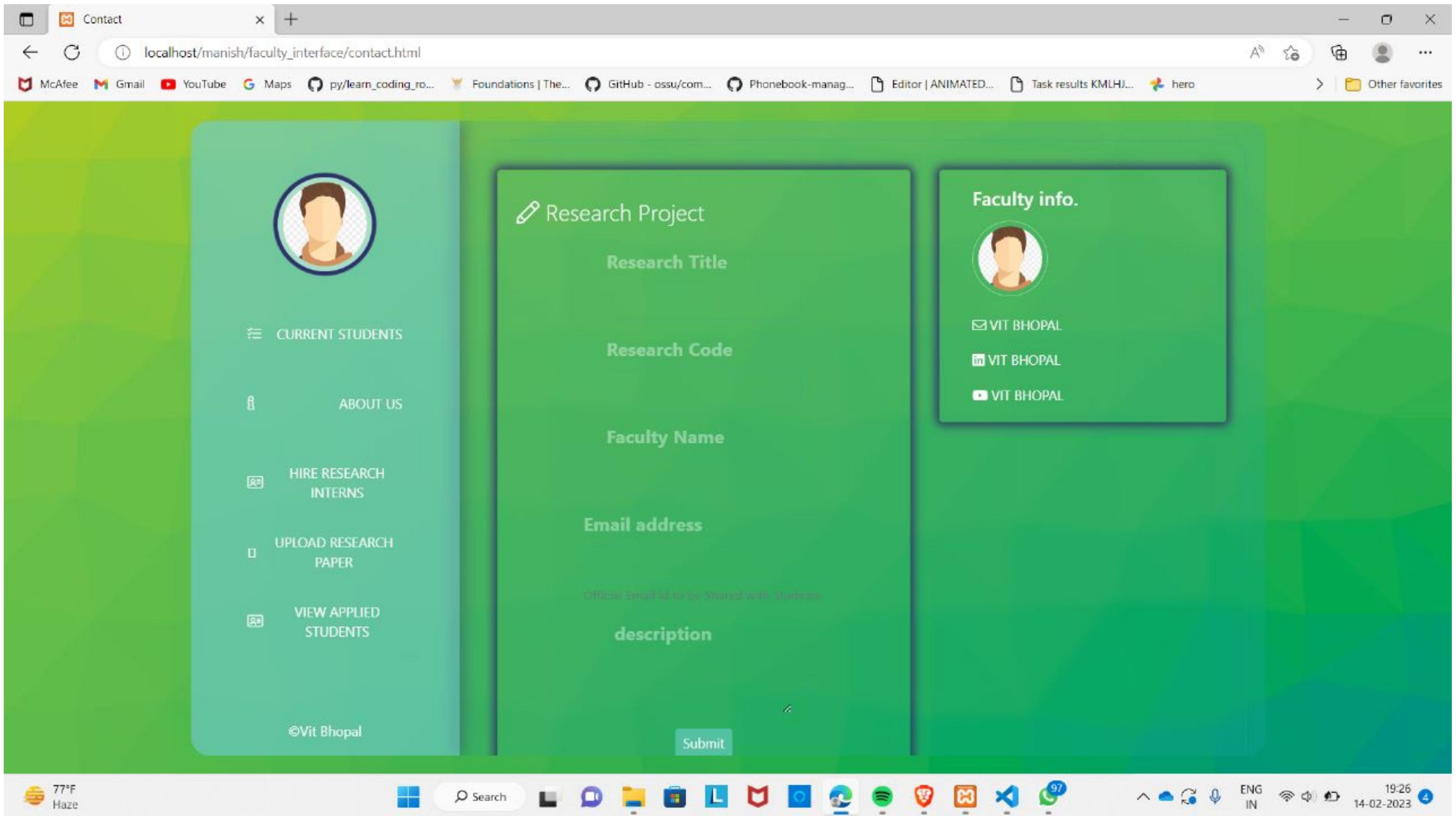
.....

Login

Not registered yet [Register Here](#)

[Click here to go to Homepage](#)





CONCLUSION

The package was designed in such a way that future modifications can be done easily. The following conclusion can be deduced from the development of the project.

- Automation of the entire system improves the efficiency.
- It provides a friendly graphical user interface which proves to be better when compared to the existing system.
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- It gives appropriate access to the authorized users depending on their permissions.
- It effectively overcomes the delay in communications.
- Updating of information becomes so easier.
- System security, data security and reliability are the striking features.
- The System has adequate scope for modification in future if it is necessary.



THANKS FOR WATCHING

Thynk Unlimited

Presentations are communication tools
that can be used as demonstrations.