Alumni Management System

A MINI-PROJECT REPORT

Submitted By

MADURAKAVI C   **2116220701153**

In partial fulfilment for the award of the degree of
BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE AND ENGINEERING

RAJALAKSHMI ENGINEERING COLLEGE

An AUTONOMOUS Institution

Affiliated to ANNA UNIVERSITY, Chennai

RAJALAKSHMI ENGINEERING COLLEGE
(AUTONOMOUS) THANDALAM
CHENNAI-602105

NOV/DEC, 24

BONAFIDE CERTIFICATE

Certified that this project report " **TASK SCHEDULAR SYSYTEM** " is the bonafide work of **" MADURAKAVI C (220701153) "** who carried out the project work under my supervision.

SIGNATURE

Mrs.JANANEE.V
Assistant Professor ,
Computer Science and Engineering,
Rajalakshmi Engineering College
(Autonomus)
Thandalam, Chennai - 602 105.

Submitted for the Practical Examination held on_____

INTERNAL EXAMINER   **EXTERNAL EXAMINER**

ACKNOWLEDGEMENT

I express my sincere thanks to my beloved and honourable chairman **MR.S.MEGANATHAN** and the chairperson **DR.M.THANGAM MEGANATHAN** for their timely support and encouragement.

I am greatly indebted to my respected and honourable principal **Dr. S.N.MURUGESAN**for his able support and guidance.

No words of gratitude will suffice for the unquestioning support extended to us by my head of the department **Dr. P. KUMAR**, and my Academic Head **Dr.SABITHA**, for being ever supporting force during my project work.

I also extend my sincere and hearty thanks to my internal guide **Mrs. JANANEE V** for her valuable guidance and motivation during the completion of this project.

My sincere thanks to my family members, friends and other staff members of Computer Science and Engineering.

MADURAKAVI.C   2116220701153

ABSTRACT

Our project aims to develop a cutting-edge alumni networking platform to overcome the limitations prevalent in existing solutions, including limited user engagement, outdated profiles, cumbersome interface, and privacy concerns. Only 15% of users return after initial deployment, and merely 77% of alumni remain reachable after 1-2 years, highlighting the urgent need to enhance user interaction and foster longer-term engagement. Our goal is to revitalize user interaction by enhancing interactive features and fostering longer-term engagement within the alumni community. Leveraging HTML, CSS, and JavaScript, we will develop a sleek and intuitive user interface. Angular will power the frontend, adhering to the MVC architecture for enhanced interactivity and responsiveness. For the backend, we have chosen Python with Flask for its lightweight nature and flexibility, complemented by MySQL as the backend database management system for its robust features and scalability. Security is paramount in our platform. We will implement HTTPS encryption and rigorous data validation techniques to safeguard against security vulnerabilities. By employing agile methodologies and innovative implementation techniques, we aim to deliver a seamless and enriching user experience. Collaboration with stakeholders will be integral to the success of this endeavor. Our project endeavors to address the shortcomings of existing alumni networking platforms by delivering a solution that resonates with both stakeholders and end-users. We are excited about the potential of this endeavor and look forward to collaborating closely with stakeholders to bring these ideas to fruition.

TABLE OF CONTENTS

CHAPTER 1
INTRODUCTION

1.1 INTRODUCTION

In today's digital age, maintaining a strong connection between educational institutions and their alumni has become more crucial than ever. Alumni networks are not only valuable for fostering community and camaraderie but also for providing critical professional networking and career development opportunities. Traditionally, alumni engagement was limited to occasional reunions or newsletters. However, with advancements in technology, it is now possible to keep alumni continuously connected, engaged, and up-to-date on institutional happenings through a web-based platform.

The **Alumni Management System** is a web application designed to streamline and enhance the relationship between alumni and their alma mater. This platform allows alumni to stay connected, update their profiles, participate in events, and network professionally with fellow alumni. The system also provides the institution with tools to manage alumni data, organize events, send announcements, and track engagement.

The goal is to create an interactive and sustainable environment that strengthens the alumni community and promotes professional growth. This system will provide a user-friendly experience for alumni while ensuring a secure, efficient backend for administrators to manage and organize alumni relations.

1.2 SCOPE OF THE WORK

The Alumni Management System aims to create an engaging, web-based platform that enhances the connection between alumni and their alma mater by facilitating communication, event participation, and networking. Alumni can manage and update their profiles, ensuring accurate records and the ability to control visibility. The platform will support event creation, enabling administrators to promote and track alumni attendance while gathering feedback for future improvements. Alumni will benefit from forums, direct messaging, and notification features that keep them updated on events, news, and announcements. Additionally, the system will offer career development tools, such as a job board, mentorship matching, and alumni success stories, supporting professional growth. Administrators will have access to data management and reporting tools, with secure user roles ensuring privacy and data protection. The system will prioritize security with GDPR compliance features, data encryption, and role-based access. Responsive design will make the platform accessible across devices, and social media integration will enable easier profile updates and networking. Automated email and SMS notifications will keep alumni engaged, fostering a sustainable and vibrant alumni network that benefits both the alumni and the institution.

1.3 AIM AND OBJECTIVES OF THE PROJECT

The **aim** of the Alumni Management System is to build a sustainable, interactive platform that strengthens connections between alumni and their alma mater, fostering ongoing engagement and professional networking opportunities. This system will support both community-building and career development, ensuring that alumni remain active participants in the institution's ecosystem.

The **objectives** of the project are as follows:

1. **Develop an Intuitive User Interface**: Design a user-friendly, responsive interface that allows alumni to easily update their profiles, explore community activities, and navigate the platform across devices.

2. **Maintain Up-to-date Alumni Data**: Enable alumni to regularly update personal, educational, and professional details while implementing automated prompts to keep profiles current, ensuring accurate and useful data.

3. **Enhance Communication and Engagement**: Provide communication tools such as message boards, direct messaging, and notifications, allowing alumni to connect with each other, receive updates on events, and stay informed of institution news.

4. **Facilitate Event Management**: Equip administrators with tools to organize alumni events, track RSVPs, manage attendance, and collect feedback, enabling efficient event planning and engagement tracking.

5. **Support Professional Growth**: Include career-oriented features such as a job board, mentorship opportunities, and alumni success highlights, fostering professional development and networking within the alumni community.

6. **Ensure Security and Privacy**: Implement secure login, data protection, and privacy controls, giving users confidence in the safety and privacy of their information.

CHAPTER 2
SYSTEM SPECIFICATIONS

2.1 HARDWARE SPECIFICATIONS

The hardware specifications for this project include a server or local machine capable of hosting the database (MySQL) and web server (e.g., Apache) for handling the task management system. The system can be run on standard hardware with at least 4GB of RAM and a dual-core processor for efficient performance. A reliable internet connection is necessary for data fetching and user interaction with the web-based interface. Users can access the system via any device (PC, laptop, tablet, or smartphone) with a modern web browser. No specialized hardware is required beyond the hosting server and user devices.
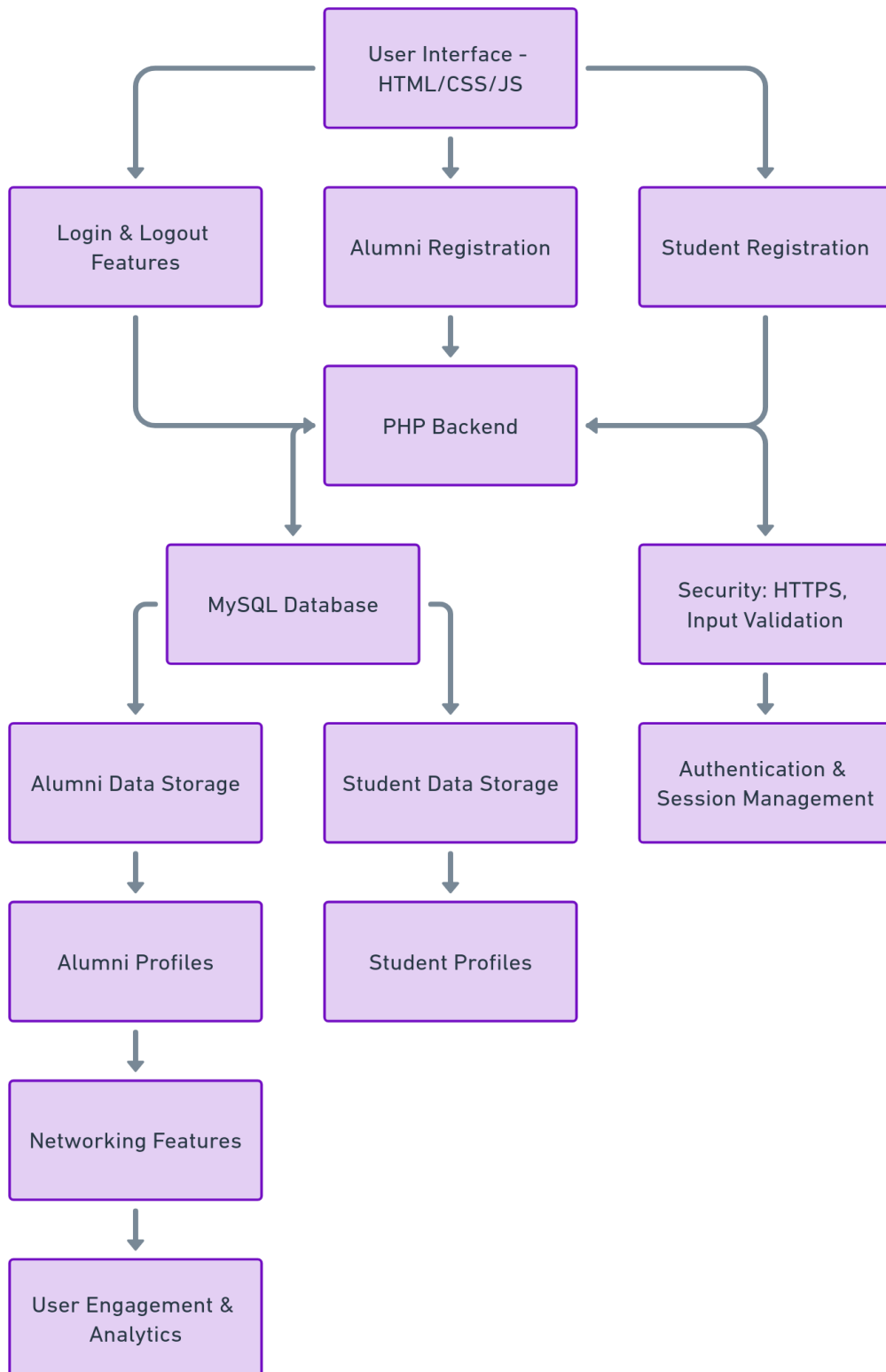
2.2 SOFTWARE SPECIFICATIONS

The front-end of the project uses HTML for the structure and layout of the web pages, ensuring semantic and well-organized content. CSS is employed for styling, with Bootstrap included to achieve a responsive design, making the application accessible on various devices. JavaScript adds interactivity and real-time updates, allowing for a dynamic user experience.

On the back-end, PHP is utilized for server-side processing, managing user requests and interacting with the database. For data storage, the system relies on MySQL, which securely manage and store user data, tasks, and other relevant information.

CHAPTER 3
ARCHITECTURE DIAGRAM

```
                        ┌──────────────────────┐
                        │   User Interface –    │
                        │     HTML/CSS/JS       │
                        └──────────────────────┘
          ┌──────────────────┼──────────────────────┐
          ▼                   ▼                      ▼
┌──────────────────┐ ┌──────────────────┐ ┌──────────────────┐
│  Login & Logout  │ │     Alumni       │ │     Student      │
│    Features      │ │   Registration   │ │   Registration   │
└──────────────────┘ └──────────────────┘ └──────────────────┘
          │                   ▼                      │
          │          ┌──────────────────┐            │
          └─────────▶│   PHP Backend    │◀───────────┤
                     └──────────────────┘            │
                              ▼                       ▼
                     ┌──────────────────┐   ┌──────────────────┐
                     │  MySQL Database  │   │ Security: HTTPS, │
                     └──────────────────┘   │  Input Validation│
          ┌──────────────────┐              └──────────────────┘
          ▼                   ▼                      ▼
┌──────────────────┐ ┌──────────────────┐ ┌──────────────────┐
│   Alumni Data    │ │   Student Data   │ │  Authentication &│
│     Storage      │ │     Storage      │ │Session Management│
└──────────────────┘ └──────────────────┘ └──────────────────┘
          ▼                   ▼
┌──────────────────┐ ┌──────────────────┐
│  Alumni Profiles │ │ Student Profiles │
└──────────────────┘ └──────────────────┘
          ▼
┌──────────────────┐
│    Networking    │
│     Features     │
└──────────────────┘
          ▼
┌──────────────────┐
│ User Engagement &│
│     Analytics    │
└──────────────────┘
```

CHAPTER 4
MODULE DESCRIPTION

4.1. User Management Module

This module handles all user-related activities, including registration, login, profile management, and privacy settings. It allows alumni to create and update profiles with personal, educational, and professional details. Administrators can manage user roles, including adding or removing alumni profiles and ensuring data accuracy. Key features include user authentication, profile editing, privacy controls, and admin controls for managing user roles and permissions.

4.2. Profile Management Module

The Profile Management Module enables alumni to build and maintain their profiles, featuring sections for contact information, career history, skills, and social links. This module ensures profiles are current by prompting users to update information regularly. It also allows users to set visibility preferences, deciding which details are publicly visible or restricted to certain user groups, thereby fostering a secure networking environment.

4.3. Event Management Module

The Event Management Module allows administrators to create and manage alumni events such as reunions, workshops, and networking sessions. Alumni can view upcoming events, RSVP, and see event details, including dates, locations, and schedules. This module also tracks attendance and gathers feedback from attendees, providing valuable insights into event success and engagement levels. Automated notifications and reminders will keep alumni informed and encourage higher participation.
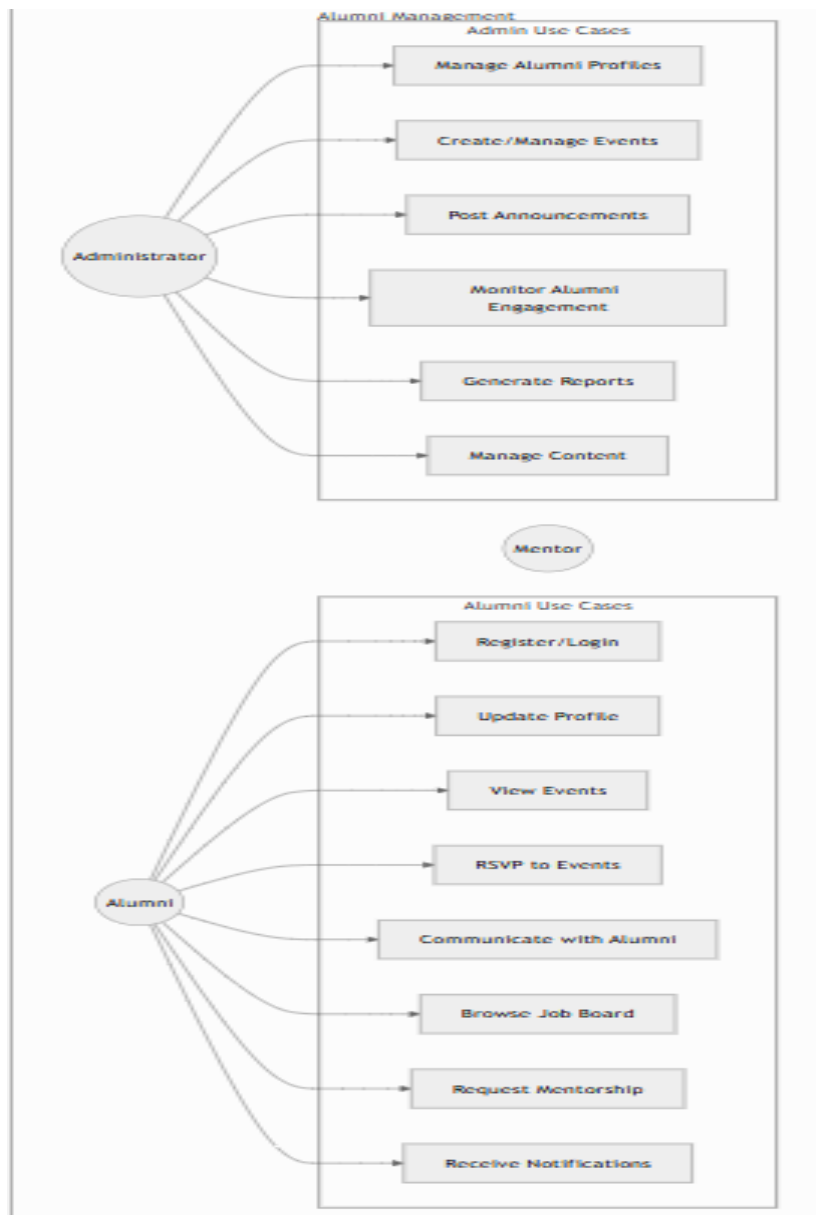
4.4. Communication Module

This module enables seamless interaction within the alumni community through direct messaging, forums, and announcements. Alumni can connect through private messages, participate in discussion boards on various topics, and receive announcements from the institution regarding events, updates, and opportunities. The module includes real-time notifications, message history, and search functionalities to facilitate efficient and engaging communication
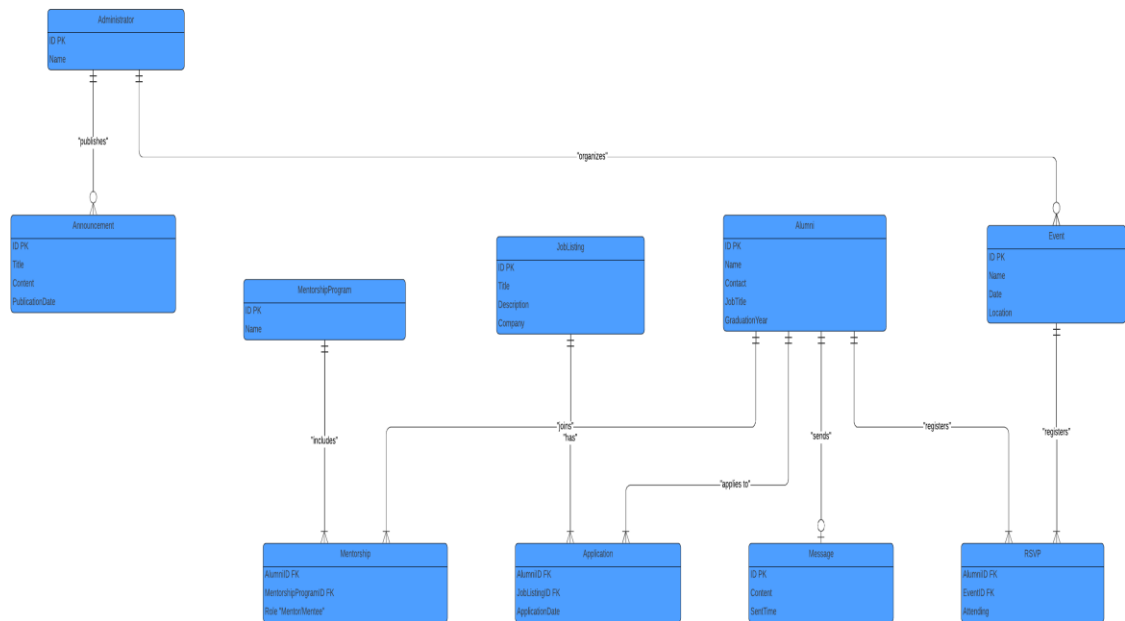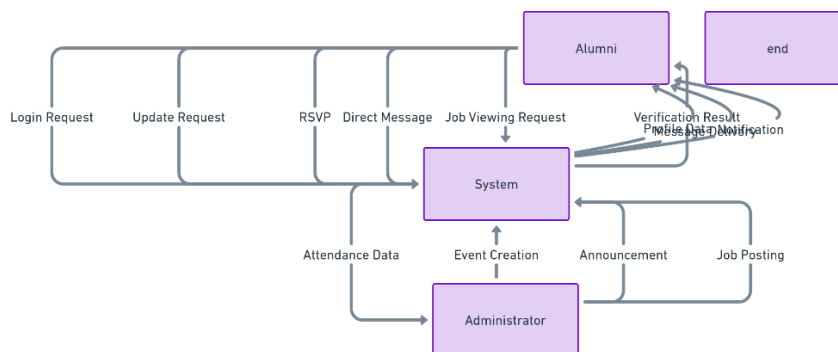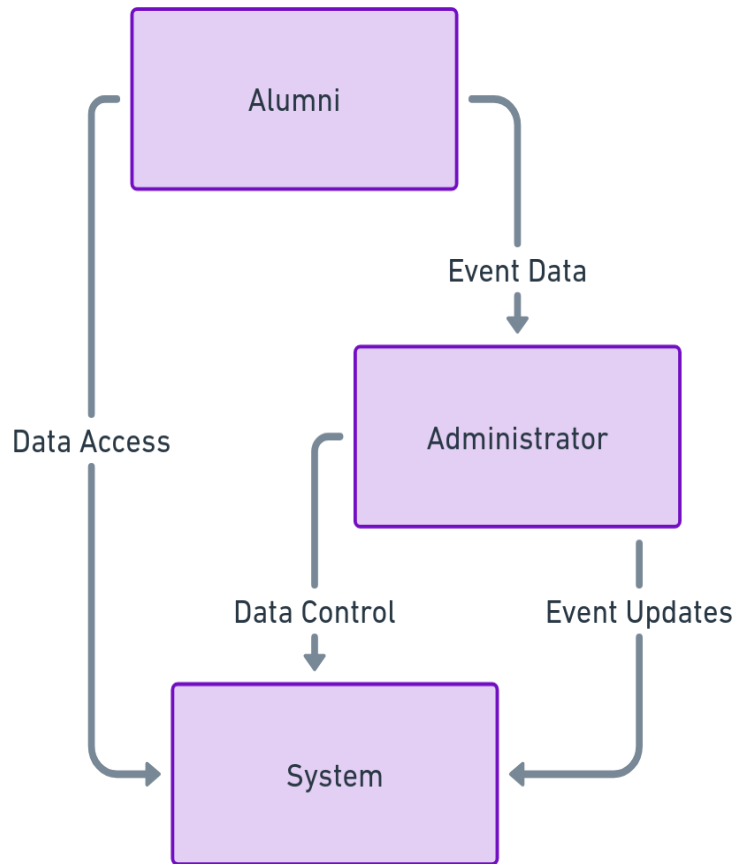
CHAPTER 5

SYSTEM DESIGN

5.1 USE CASE DIAGRAM

5.2 ER DIAGRAM

Administrator
- ID PK
- Name

"publishes"

"organizes"

Announcement
- ID PK
- Title
- Content
- PublicationDate

MentorshipProgram
- ID PK
- Name

JobsListing
- ID PK
- Title
- Description
- Company

Alumni
- ID PK
- Name
- Contact
- JobTitle
- GraduationYear

Event
- ID PK
- Name
- Date
- Location

"includes"

"joins"

"has"

"sends"

"registers"

"registers"

"applies to"

Mentorship
- AlumniID FK
- MentorshipProgramID FK
- Role "Mentor/Mentee"

Application
- AlumniID FK
- JobListingID FK
- ApplicationDate

Message
- ID PK
- Content
- SentTime

RSVP
- AlumniID FK
- EventID FK
- Attending

5.3 DATA FLOW DIAGRAM

CHAPTER 6

SAMPLE CODING

HOMEPAGE.HTML

```php
<?php include 'db_connect.php' ?>
<style>
  span.float-right.summary_icon {
   font-size: 3rem;
   position: absolute;
   right: 1rem;
   color: #ffffff96;
}
.imgs{
    margin: .5em;
    max-width: calc(100%);
    max-height: calc(100%);
  }
  .imgs img{
    max-width:  calc(100%);
    max-height: calc(100%);
    cursor: pointer;
  }
  #imagesCarousel,#imagesCarousel .carousel-inner,#imagesCarousel
.carousel-item{
    height: 60vh !important;background: black;
  }
  #imagesCarousel .carousel-item.active{
    display: flex !important;
  }
  #imagesCarousel .carousel-item-next{
    display: flex !important;
  }
  #imagesCarousel .carousel-item img{
    margin: auto;
  }
  #imagesCarousel img{
    width: auto!important;
    height: auto!important;
    max-height: calc(100%)!important;
    max-width: calc(100%)!important;
  }
</style>
```

```php
<div class="containe-fluid">
  <div class="row mt-3 ml-3 mr-3">
    <div class="col-lg-12">
      <div class="card">
        <div class="card-body">
          <?php echo "Welcome back ". $_SESSION['login_name']."!"  ?>
          <hr>
          <div class="row">
            <div class="col-md-3">
              <div class="card">
                <div class="card-body bg-primary">
                  <div class="card-body text-white">
                    <span class="float-right summary_icon"><i class="fa fa-users"></i></span>
                    <h4><b>
                      <?php echo $conn->query("SELECT * FROM alumnus_bio where status = 1")->num_rows; ?>
                    </b></h4>
                    <p><b>Alumni</b></p>
                  </div>
                </div>
              </div>
            </div>
            <div class="col-md-3">
              <div class="card">
                <div class="card-body bg-info">
                  <div class="card-body text-white">
                    <span class="float-right summary_icon"><i class="fa fa-comments"></i></span>
                    <h4><b>
                      <?php echo $conn->query("SELECT * FROM forum_topics")->num_rows; ?>
                    </b></h4>
                    <p><b>Forum Topics</b></p>
                  </div>
                </div>
              </div>
            </div>
            <div class="col-md-3">
              <div class="card">
                <div class="card-body bg-warning">
                  <div class="card-body text-white">
```

```
                            <span class="float-right summary_icon"><i
class="fa fa-briefcase"></i></span>
                            <h4><b>
                                <?php echo $conn->query("SELECT * FROM
careers")->num_rows; ?>
                            </b></h4>
                            <p><b>Posted jobs</b></p>
                        </div>
                    </div>
                </div>
            </div>
            <div class="col-md-3">
                <div class="card">
                    <div class="card-body bg-primary">
                        <div class="card-body text-white">
                            <span class="float-right summary_icon"><i
class="fa fa-calendar-day"></i></span>
                            <h4><b>
                                <?php echo $conn->query("SELECT * FROM
events where date_format(schedule,'%Y-%m-%d') >= '".date('Y-m-d')."' ")-
>num_rows; ?>
                            </b></h4>
                            <p><b>Upcoming Events</b></p>
                        </div>
                    </div>
                </div>
            </div>
        </div>


        </div>
      </div>
    </div>
  </div>
</div>
<script>
  $('#manage-records').submit(function(e){
    e.preventDefault()
    start_load()
    $.ajax({
      url:'ajax.php?action=save_track',
      data: new FormData($(this)[0]),
      cache: false,
      contentType: false,
```

```javascript
        processData: false,
        method: 'POST',
        type: 'POST',
        success:function(resp){
           resp=JSON.parse(resp)
           if(resp.status==1){
              alert_toast("Data successfully saved",'success')
              setTimeout(function(){
                 location.reload()
              },800)


           }

        }
     })
  })
  $('#tracking_id').on('keypress',function(e){
     if(e.which == 13){
        get_person()
     }
  })
  $('#check').on('click',function(e){
        get_person()
  })
  function get_person(){
        start_load()
     $.ajax({
        url:'ajax.php?action=get_pdetails',
        method:"POST",
        data:{tracking_id : $('#tracking_id').val()},
        success:function(resp){
           if(resp){
              resp = JSON.parse(resp)
              if(resp.status == 1){
                 $('#name').html(resp.name)
                 $('#address').html(resp.address)
                 $('[name="person_id"]').val(resp.id)
                 $('#details').show()
                 end_load()

              }else if(resp.status == 2){
                 alert_toast("Unknow tracking id.",'danger');
                 end_load();
```

```
                    }
                }
            }
        })
    }
</script>
```

LOGIN.HTML

```php
<!DOCTYPE html>
<html lang="en">
<?php
session_start();
include('./db_connect.php');
ob_start();
if(!isset($_SESSION['system'])){
    $system = $conn->query("SELECT * FROM system_settings limit 1")-
>fetch_array();
    foreach($system as $k => $v){
        $_SESSION['system'][$k] = $v;
    }
}
ob_end_flush();
?>
<head>
  <meta charset="utf-8">
  <meta content="width=device-width, initial-scale=1.0" name="viewport">


  <title><?php echo $_SESSION['system']['name'] ?></title>


<?php include('./header.php'); ?>
<?php
if(isset($_SESSION['login_id']))
header("location:index.php?page=home");


?>
```

```
</head>
<style>
    body{
        width: 100%;
        height: calc(100%);
        /*background: #007bff;*/
    }
    main#main{
        width:100%;
        height: calc(100%);
        background:white;
    }
    #login-right{
        position: absolute;
        right:0;
        width:40%;
        height: calc(100%);
        background:white;
        display: flex;
        align-items: center;
    }
    #login-left{
        position: absolute;
        left:0;
        width:60%;
        height: calc(100%);
        background:#59b6ec61;
        display: flex;
        align-items: center;
        background: url(assets/uploads/<?php echo
$_SESSION['system']['cover_img'] ?>);
        background-repeat: no-repeat;
        background-size: cover;
    }
    #login-right .card{
        margin: auto;
        z-index: 1
    }
    .logo {
    margin: auto;
    font-size: 8rem;
    background: white;
    padding: .5em 0.7em;
    border-radius: 50% 50%;
```

```css
    color: #000000b3;
    z-index: 10;
}
div#login-right::before {
    content: "";
    position: absolute;
    top: 0;
    left: 0;
    width: calc(100%);
    height: calc(100%);
    background: #000000e0;
}

</style>
```

```html
<body>

  <main id="main" class=" bg-dark">
      <div id="login-left">
      </div>

      <div id="login-right">
        <div class="card col-md-8">
          <div class="card-body">

              <form id="login-form" >
                <div class="form-group">
                  <label for="username" class="control-label">Username</label>
                  <input type="text" id="username" name="username" class="form-control">
                </div>
                <div class="form-group">
                  <label for="password" class="control-label">Password</label>
                  <input type="password" id="password" name="password" class="form-control">
                </div>
                <center><button class="btn-sm btn-block btn-wave col-md-4 btn-primary">Login</button></center>
              </form>
            </div>
          </div>
        </div>
```
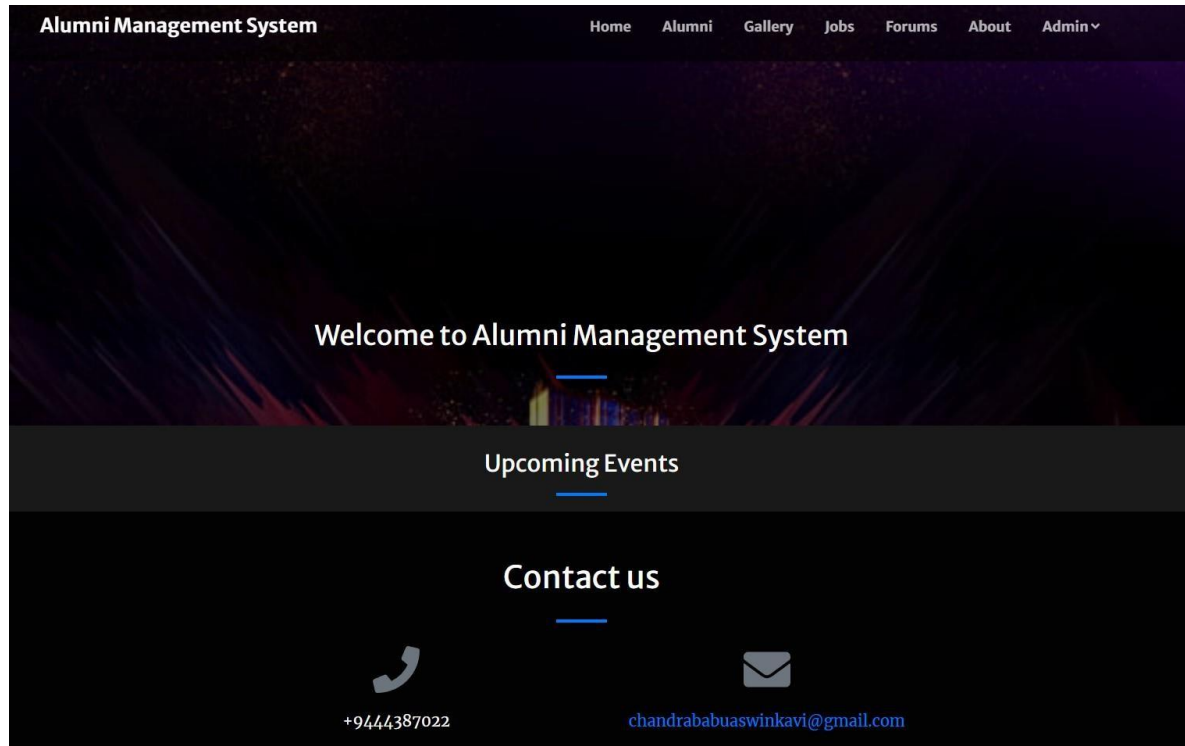
```
    </main>

    <a href="#" class="back-to-top"><i class="icofont-simple-up"></i></a>

</body>
<script>
   $('#login-form').submit(function(e){
      e.preventDefault()
      $('#login-form
button[type="button"]').attr('disabled',true).html('Logging in...');
      if($(this).find('.alert-danger').length > 0 )
         $(this).find('.alert-danger').remove();
      $.ajax({
         url:'ajax.php?action=login',
         method:'POST',
         data:$(this).serialize(),
         error:err=>{
            console.log(err)
      $('#login-form
button[type="button"]').removeAttr('disabled').html('Login');

         },
         success:function(resp){
            if(resp == 1){
               location.href ='index.php?page=home';
            }else{
               $('#login-form').prepend('<div class="alert alert-
danger">Username or password is incorrect.</div>')
               $('#login-form
button[type="button"]').removeAttr('disabled').html('Login');
            }
         }
      })
   })
</script>
</html>
```

REGISTRATION.PHP

```
<div class="container-fluid">
   <form action="" id="manage-register">
```

```html
      <input type="hidden" name="id" value="<?php echo isset($id) ? $id :"
?>">
      <input type="hidden" name="event_id" value="<?php echo
isset($_GET['event_id']) ? $_GET['event_id'] :'' ?>">
    <div class="form-group">
        <label for="" class="control-label">Full Name</label>
        <input type="text" class="form-control"
name="name"  value="<?php echo isset($name) ? $name :'' ?>" required>
    </div>
    <div class="form-group">
        <label for="" class="control-label">Address</label>
        <textarea cols="30" rows = "2" required="" name="address"
class="form-control"><?php echo isset($address) ? $address :''
?></textarea>
    </div>
    <div class="form-group">
        <label for="" class="control-label">Email</label>
        <input type="email" class="form-control"
name="email"  value="<?php echo isset($email) ? $email :'' ?>" required>
    </div>
    <div class="form-group">
        <label for="" class="control-label">Contact #</label>
        <input type="text" class="form-control"
name="contact" value="<?php echo isset($contact) ? $contact :'' ?>"
required>
    </div>
  </form>
</div>
<script>
   $('.datetimepicker').datetimepicker({
      format:'Y/m/d H:i',
      startDate: '+3d'
    })
  $('#manage-register').submit(function(e){
     e.preventDefault()
     start_load()
     $('#msg').html('')
     $.ajax({
        url:'admin/ajax.php?action=save_register',
        data: new FormData($(this)[0]),
        cache: false,
        contentType: false,
        processData: false,
        method: 'POST',
        type: 'POST',
```

```
    success:function(resp){
      if(resp==1){
        alert_toast("Registration Request Sent.",'success')
          end_load()
          uni_modal("","register_msg.php")


      }
    }
  })
 })
</script>
```
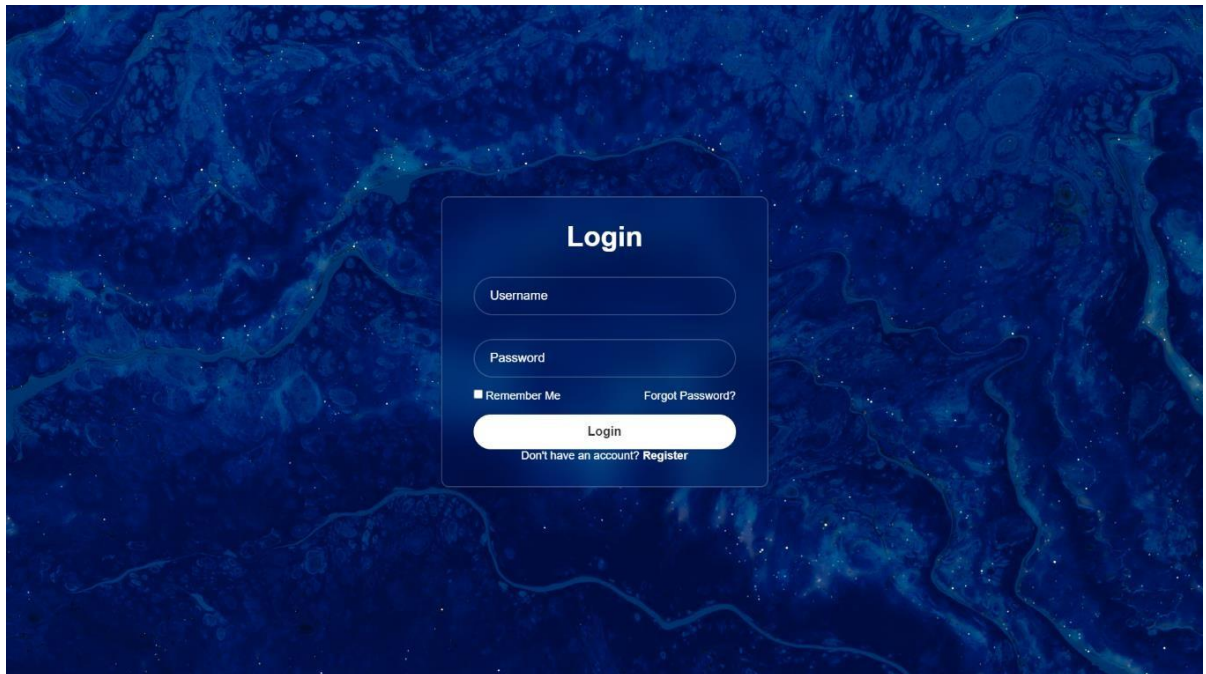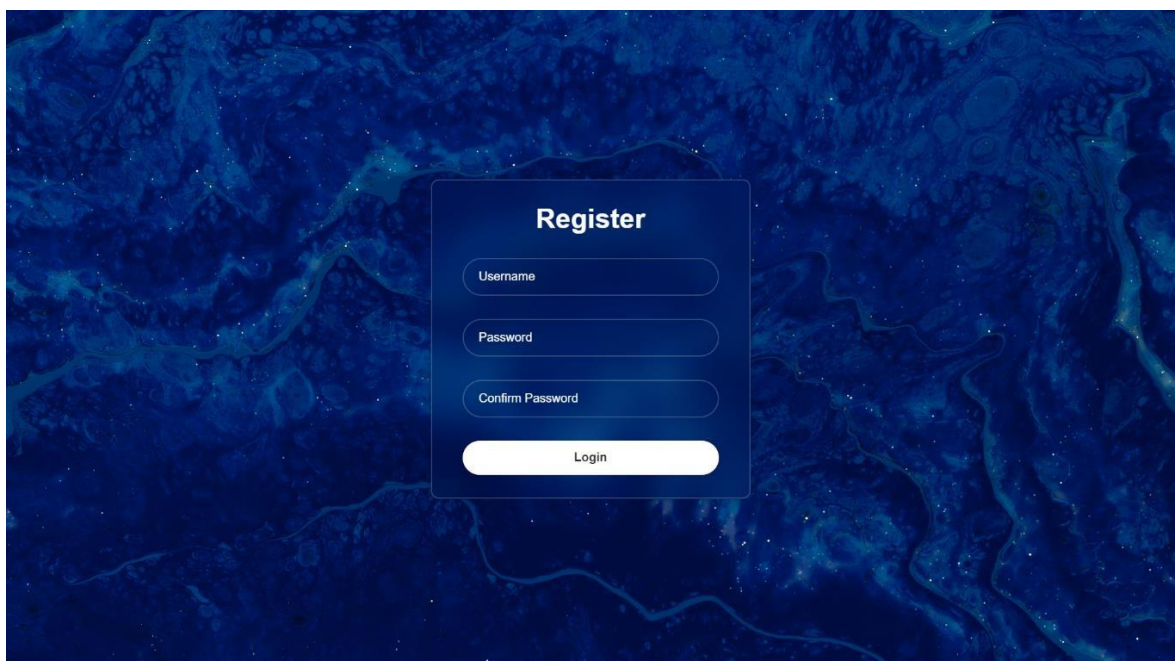
CHAPTER 7
SCREEN SHOTS

HOME PAGE

LOGIN PAGE

REGISTER PAGE

MAIN PAGE

CHAPTER 8
CONCLUSION

The Alumni Management System is a comprehensive solution designed to bridge the gap between educational institutions and their alumni, fostering lasting connections and ongoing engagement. By leveraging technology, this system transforms how alumni networks are maintained, facilitating seamless interactions and valuable networking opportunities for graduates. Through key features such as personalized profiles, event management, job posting, and communication channels, the platform encourages active alumni participation and supports professional development.

One of the primary benefits of this system is its ability to address the common challenges faced by alumni associations: low engagement, outdated contact information, and the need for streamlined communication. With its user-friendly interface and accessible features, the Alumni Management System simplifies the process of keeping alumni records up to date, promoting a sense of community and belonging among former students.

Security is a core aspect of the system, ensuring the protection of sensitive user data through best practices in data encryption, secure logins, and compliance with privacy standards. Additionally, the platform's architecture is built with scalability in mind, allowing institutions to adapt to growing alumni networks without compromising performance.

The platform also supports institutions' goals of leveraging alumni networks for fundraising, mentorship, and career advancement opportunities for current students. By fostering a sustainable network, the Alumni Management System not only enhances alumni loyalty but also strengthens the institution's reputation and reach in the wider community.

In conclusion, the Alumni Management System is more than just a database; it is a dynamic tool that empowers alumni to connect, collaborate, and contribute to their alma mater in meaningful ways. Its integration of secure, interactive, and scalable features makes it a vital asset for any institution aiming to nurture and grow its alumni network.

CHAPTER 9
REFERENCES

https://www.w3schools.com/html/default.asp

https://www.w3schools.com/css/default.asp

https://www.w3schools.com/js/default.asp

https://getbootstrap.com/docs/5.0/getting-started/introduction/

https://www.php.net/docs.php

https://www.timehero.com/