A
Industry Oriented Mini Project Report

On

"DIKSHUCHI-MAKE YOUR CAREER PATH PERFECT"

Submitted in partial fulfillment of the

Requirements for the award of the degree of

Bachelor of Technology

In

Computer Science & Engineering

By

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CERTIFICATE

This is to certify that the project entitled **"DIKSHUCHI - Make your Career path Perfect"** has been submitted by **Dabbu Harshini (22R21A0518), Boddula Tejas (22R21A0513), Edlakadi Sowmya (22R21A0522) and Lakavath Dilip (22R21A0534)** in partial fulfillment of the requirements for the award of degree of Bachelor of Technology in Computer Science and Engineering from Jawaharlal Nehru Technological University, Hyderabad. The results embodied in this project have not been submitted to any other University or Institution for the award of any degree or diploma.

Internal Guide **Head of the Department**

External Examiner

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DECLARATION

We hereby declare that the project entitled **"DIKSHUCHI - Make your Career path Perfect"** is the work done during the period from **January 2025 to June 2025** and is submitted in partial fulfillment of the requirements for the award of degree of Bachelor of Technology in Computer Science and Engineering from Jawaharlal Nehru Technology University, Hyderabad. The results embodied in this project have not been submitted to any other university or Institution for the award of any degree or diploma.

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ACKNOWLEDGEMENT

The satisfaction and euphoria that accompany the successful completion of any task would be incomplete without the mention of people who made it possible, whose constant guidance and encouragement crowned our efforts with success. It is a pleasant aspect that we now have the opportunity to express our guidance for all of them. First of all, we would like to express our deep gratitude towards our internal guide **Mr. S.K. Lokesh Naik, Associate Professor, Department of CSE** for his support in the completion of our dissertation. We wish to express our sincere thanks to **Dr. A. BALARAM, HOD, Department of CSE** and also to **Dr. K. SRINIVAS RAO, Principal** for providing us the facilities to complete the dissertation. We would like to thank all our faculty and friends for their help and constructive criticism during the project period. Finally, we are very much indebted to our parents for their moral support and encouragement to achieve goals.

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ABSTRACT

Many school students are facing challenges in selecting the right career path due to a lack of guidance and resources. This platform helps the students in choosing the best career path and developing the skills they need for success. Identify the career challenges faced by the students and collect the information based on the available resources and conduct tests which will help the students understand their interests, strengths, and skills. Based on their answers, the platform will suggest possible career options with detailed information about that particular career option, like what the job involves, what skills are needed, and how much it pays. Test the platform with students and improve it based on their feedback. Some of the benefits and drawbacks are students can easily access career information, making it simpler for them to explore multiple educational paths, Live sessions and mentorship can provide with proper guidance. Asking students for personal information could create issues about privacy and data security. The platform may not be helpful for students who prefer talking to someone in person for career advice and future scope, offering new courses conducting workshops so students can keep learning new skills for their future jobs, creating space where students can connect with professionals, creating space where students can connect with mentors, professionals and learn about different work cultures.

LIST OF FIGURES

INDEX

CHAPTER 1

INTRODUCTION

1.1 OVERVIEW

In today's highly dynamic and competitive world, students face overwhelming challenges in choosing a suitable career path. Most of these difficulties arise from a lack of structured guidance, insufficient exposure to available opportunities, and the absence of personalized decision-making tools. "**DIKSHUCHI**" – a career guidance and exploration platform – is designed to address these problems by helping students discover suitable career paths based on their individual strengths, interests, and aptitudes. Dikshuchi leverages modern web technologies and data-driven analysis to offer customized career suggestions. Through interest and skill-based assessments, interactive modules, real-world career insights, and mentorship features, the platform acts as a personalized counselor, enabling students to make informed choices that align with their future aspirations.

1.2 PURPOSE OF THE PROJECT

- To help users identify the most suitable career paths based on their profiles.
- To bridge the gap between education and employment by providing relevant job and internship recommendations.
- To connect users with industry mentors and career coaches for guidance and support.
- To provide actionable insights and resources for skill development, resume building, and interview preparation.

1.3 MOTIVATION

Many students and young professionals struggle with career planning due to lack of guidance or awareness of available options. Rapid changes in job markets and skill demands require dynamic and up-to-date career support systems. Traditional career counseling is often inaccessible, expensive, or outdated; a tech-driven solution can democratize access. By leveraging AI, this platform aims to empower individuals with personalized career pathways and improve employability outcomes.

CHAPTER 2

LITERATURE SURVEY

This chapter involves the literature survey and proposed work. The literature survey table will include the paper title, Author's name, year of publication, key findings and research gaps. The points obtained in the research gap will turn out to be the problem definition. This problem definition will be phase wise. This chapter will also include the description of the methodology used.

2.1 EXISTING SYSTEM

The classification of student profiles and interests in career guidance systems is a vital task in offering personalized career recommendations. Manually analyzing individual aspirations, academic backgrounds, and skills can be a time-consuming and error-prone process, especially when dealing with large student populations. Automating this process using intelligent systems can significantly streamline a critical phase of career counseling. Furthermore, accurate categorization of user data enables better management and faster retrieval of relevant career paths or educational programs, thus enhancing the effectiveness of career advisory services and supporting students in making informed decisions about their futures.

S. Hussain et al. [1] developed a rule-based expert system designed to emulate the decision-making process of a human career counselor. The system generates personalized course and career recommendations based on a set of predefined rules and user responses. The implementation demonstrated the potential of expert systems in providing automated, scalable, and structured guidance to students.

A. Malakar et al. [2] proposed a hybrid career recommendation model that integrates machine learning techniques such as Decision Trees and K-Nearest Neighbors (KNN). The model analyzes user interests and academic backgrounds to generate career suggestions. This approach improved the accuracy and flexibility of recommendations, showcasing the strength of ML-based hybrid systems in career counseling.

In [3], a machine learning-based model was developed to assist in career suggestions by analyzing academic performance data. The system applies classification algorithms to predict suitable career paths, enabling data-driven interventions by career counselors. The method allows for more personalized and predictive guidance early in a student's academic journey.

T. T. Nguyen and D. H. Hoang [4] introduced an ontology-based semantic web platform for career guidance. The system uses semantic matching techniques to align student preferences, abilities, and interests with job roles and academic opportunities. The use of ontologies provides a context-aware and intelligent mapping between user input and career profiles.

M. Abidi et al. [5] developed a mobile-based application for career guidance that offers real-time recommendations. The system combines AI with integrated career databases to provide personalized career suggestions and educational pathways. Designed for accessibility and portability, the mobile app enhances the usability of career advisory services for broader audiences.

R. Bagai and V. Mane [6] proposed an AI-powered mentorship platform, MentorAI, aimed at professional development. The platform utilizes artificial intelligence, machine learning, and natural language processing to provide personalized mentorship experiences. It addresses challenges such as data protection, algorithmic bias, and the ethical considerations of substituting human mentors with AI systems.

A. Faqihi and S. J. Miah [7] explored the development of an AI-driven talent intelligence solution to enhance career guidance. The study extends the Technology-Organization-Environment (TOE) framework by integrating big data analytics and machine learning techniques to improve talent management and career planning processes.

F. Soualah-Alila et al. [8] proposed a semantic web architecture for context-aware recommendation systems in e-learning applications. The system uses ontologies to model learning contexts and employs OWL rules for filtering, aiming to provide personalized learning content based on learner profiles, activities, and social interactions.

C. G. Durán and C. M. Ramírez [9] developed EduCOR, an educational and career-oriented recommendation ontology. The system integrates open educational resources using a semantic platform to provide personalized recommendations for lifelong learning and career development.

H. Xu et al. [10] proposed an improved K-means clustering algorithm for constructing knowledge graphs in social networks. The approach enhances the recommendation of personalized learning paths and career opportunities by analyzing social network data.

D. Bañeres and J. Conesa [11] introduced eOrient@, a recommender system designed to support lifelong learning and enhance employability. The system leverages user profiling and semantic technologies to provide personalized course recommendations aligned with career goals.

S. Zhang et al. [12] conducted a comprehensive survey on deep learning-based recommender systems. The study discusses various deep learning architectures and their applications in personalized recommendations, which are pertinent to career guidance systems aiming to provide tailored suggestions.

M. G. Villalon et al. [13] proposed a context ontology for mobile environments to enhance personalized recommendations in e-learning systems. The ontology facilitates the adaptation

of learning content based on the learner's context, which can be extended to career guidance applications.

L. Ding et al. [14] analyzed social networks on the semantic web to improve personalized recommendations. Their work emphasizes the importance of semantic relationships in enhancing the accuracy of recommendation systems, which is applicable to career guidance platforms.

N. Henze et al. [15] explored reasoning and ontologies for personalized e-learning in the semantic web. Their approach utilizes ontological reasoning to adapt learning content to individual needs, which can be applied to career guidance systems for personalized recommendations.

2.2 DISADVANTAGES OF EXISTING SYSTEM

Concisely summarizing the disadvantages of the above implementations:

1. Limited geographic availability restricts user access.
2. High subscription costs limit affordability.
3. Lack of comprehensive features reduces guidance effectiveness.
4. Complex user interfaces hinder usability for some users.
5. Minimal personalization leads to generic recommendations.
6. Focus on short-term needs overlooks long-term career planning.
7. Limited regional language support excludes non-English speakers.
8. Narrow target audience misses adult and career-changer needs.
9. Poor integration with educational and professional systems reduces effectiveness

CHAPTER 3

DIKSHUCHI

3.1 DIKSHUCHI SYSTEM

Career Guidance Platform proposes a structured, modular system for offering career direction, personality development, mentorship, and support for career re-entry. Beginning with detailed user profiling and structured form inputs, the platform guides users through a seamless journey of discovering suitable career options, improving professional skills, connecting with experienced mentors, and restarting careers after breaks. This comprehensive system ensures effective career planning, development, and execution for diverse user needs. The platform suggests a novel modular approach, incorporating four primary components: **Career Counselling**, **Personality Development**, **Coach & Mentor Module**, and **Restart Career**. The user journey starts with background data collection through interactive forms and optional assessment tools. Based on the inputs, users are guided through personalized content and development pathways, allowing them to make informed decisions regarding their career growth.

Each module plays a unique role:

- The **Career Counselling Module** supports individuals in choosing the right career paths based on their interests, academic background, and skill set. It provides access to course recommendations, career options, and market demand insights.
- The **Personality Development Module** offers essential training in communication, leadership, interview skills, and self-confidence—preparing users for both academic and professional success.
- The **Coach & Mentor Module** connects users to mentors across various industries. Using a built-in scheduling system and video conferencing tools, it enables real-time guidance, Q&A, and motivation.
- The **Restart Career Module** supports users seeking to re-enter the workforce, such as professionals returning after a break or shifting careers. It provides targeted resources, mentorship, and opportunities aligned with their current context.

This holistic platform is designed for flexibility, accessibility, and impact. It ensures user empowerment through knowledge, mentorship, and skill-building—promoting individual growth and supporting national-level career readiness goals.

3.2 ADVANTAGES OF DIKSHUCHI SYSTEM

The proposed system has the following advantages:

1. Modular Structure: The system integrates career counselling, personality development, mentorship, and re-entry support—ensuring comprehensive career guidance.
2. Real-time Mentorship: Built-in coach and mentor module fosters direct industry interaction and professional growth.
3. Re-entry Empowerment: Dedicated support helps individuals restart their careers with confidence and relevant resources.
4. Skill Enhancement: The personality development module builds essential soft skills often overlooked in conventional platforms.
5. Scalable and Inclusive: Adaptable for students, professionals, and institutions—offering wide accessibility and long-term impact.

3.3 DIKSHUCHI ARCHITECTURE

The **Dikshuchi Architecture** is a structured, intelligent, and modular framework designed to assist students and professionals in making well-informed career choices. It facilitates personalized guidance by integrating components such as career counselling, skill gap analysis, mentorship support, and career restart opportunities. This system leverages data analysis, machine learning, and interactive modules to provide customized recommendations and support throughout the user's career journey.

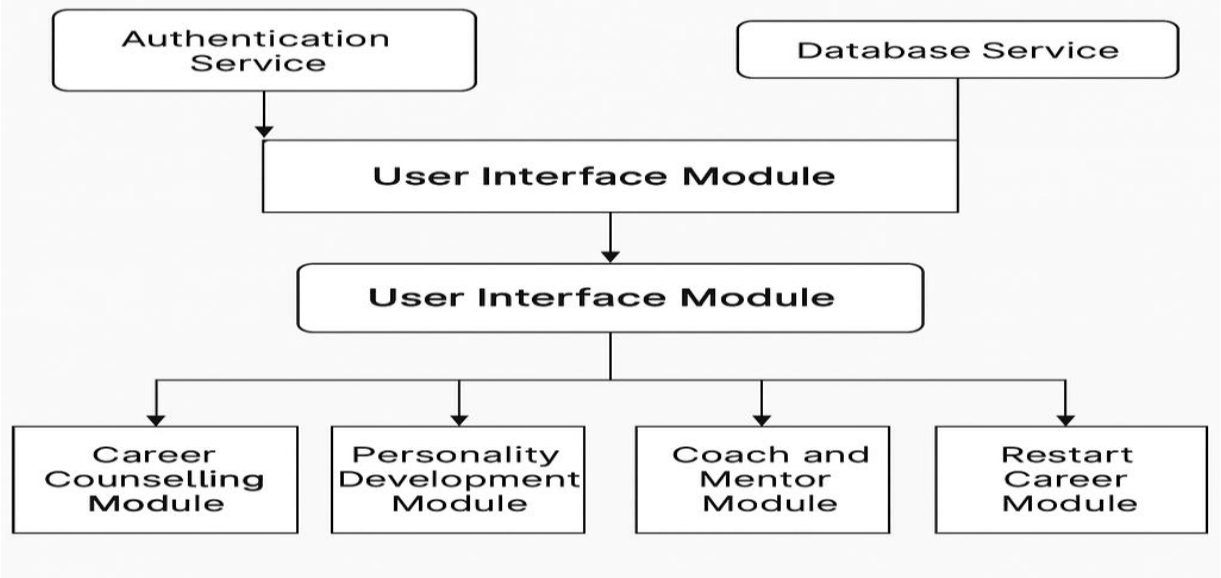

Figure 3.3.1 Dikshuchi Architecture(source:chatGpt)

Authentication Service:

The Authentication Service is responsible for managing secure user access to the system. It handles tasks such as user registration, login, password management, and role-based access control. This component ensures that each user—whether a student, mentor, counselor, or administrator—has a verified identity, thereby maintaining the security and privacy of user data. It also enables differentiated access to system functionalities depending on the user's role, enhancing both usability and safety.

Database Service:

The Database Service is the central repository that stores and manages all data used by the system. It contains structured information such as user profiles, academic records, aptitude and personality test scores, mentorship interactions, feedback forms, and system-generated recommendations. This component supports efficient CRUD (Create, Read, Update, Delete) operations and ensures the integrity, consistency, and confidentiality of stored data. It enables seamless data retrieval and serves as the backbone for analytics and personalized guidance delivery.

User Interface Module:

The User Interface (UI) Module is the main touchpoint through which users interact with the system. It offers a responsive, user-friendly design that guides users across different modules such as assessments, mentorship sessions, and skill development resources. This module ensures intuitive navigation, dynamic content rendering, and personalized user experiences. It also enables real-time feedback, interactive dashboards, and communication features that enhance usability across devices.

Core Functional Modules:

The platform is driven by a set of core functional modules, each specializing in a key aspect of career development. These modules work in conjunction to provide end-to-end support for users, from career discovery to mentorship and upskilling.

Career Counselling Module:

The Career Counselling Module is responsible for generating personalized career recommendations. It processes user inputs such as academic records, aptitude scores, and interest assessments to determine suitable career options. This module includes features like career interest profiling, stream/domain suggestions, and real-time analytics-based career mapping. It helps users understand their strengths and aligns them with appropriate educational or professional paths.

Personality Development Module:

The Personality Development Module helps users enhance essential soft skills that contribute to long-term career success. It provides communication training, leadership development, and self-evaluation tools to foster personal growth. Users can track their improvement via progress dashboards and attend virtual workshops designed to build confidence, teamwork, and workplace readiness. This module plays a pivotal role in preparing individuals for interviews and professional settings.

Coach and Mentor Module:

The Coach and Mentor Module connects users with industry professionals and expert mentors for personalized guidance. It leverages AI-based matching algorithms to pair users with relevant mentors based on interests, goals, and expertise. Features include session scheduling, consultation history tracking, and in-app chat or video call support. This one-on-one mentorship ensures users gain real-world insights, motivation, and strategic advice aligned with their career aspirations.

Restart Career Module:

The Restart Career Module is tailored for individuals looking to re-enter the workforce or pivot to a new career. It performs skill gap analysis and generates reskilling pathways suited to current market needs. The module includes resources for placement readiness, such as resume builders, mock interviews, and job-matching tools. It is particularly beneficial for career returnees, women post-career break, or professionals transitioning between industries.

3.4 UML DIAGRAMS

UML stands for Unified Modelling Language. UML is a standardized general-purpose modelling language in the field of object-oriented software engineering. The standard is managed, and was created by, the Object Management Group. The goal is for UML to become a common language for creating models of object-oriented computer software. The Unified Modelling Language is a standard language for specifying, Visualization, Constructing and documenting the artifacts of software system, as well as for business modelling and other non-software systems.

Use Case Diagram:

A use case diagram in the Unified Modeling Language (UML) is a type of behavioral diagram defined by and created from a Use-case analysis. Its purpose is to present a graphical overview of the functionality provided by a system in terms of actors, their goals (represented as use cases),

and any dependencies between those use cases. The main purpose of a use case diagram is to show what system functions are performed for which actor. Roles of the actors in the system can be depicted.

UML DIAGRAMS

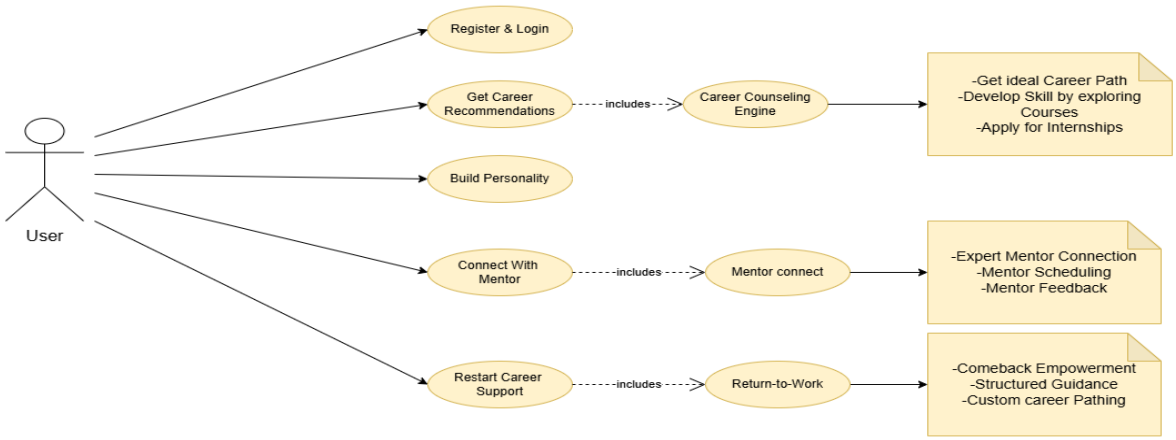

Figure 3.4.1 Use Case Diagram

Class Diagram:

The class diagram is used to refine the use case diagram and define a detailed design of the system. The class diagram classifies the actors defined in the use case diagram into a set of interrelated classes. The relationship or association between the classes can be either an "is-a" or "has-a" relationship. Each class in the class diagram may be capable of providing certain functionalities. These functionalities provided by the class are termed "methods" of the class. Apart from this, each class may have certain "attributes" that uniquely identify the class.

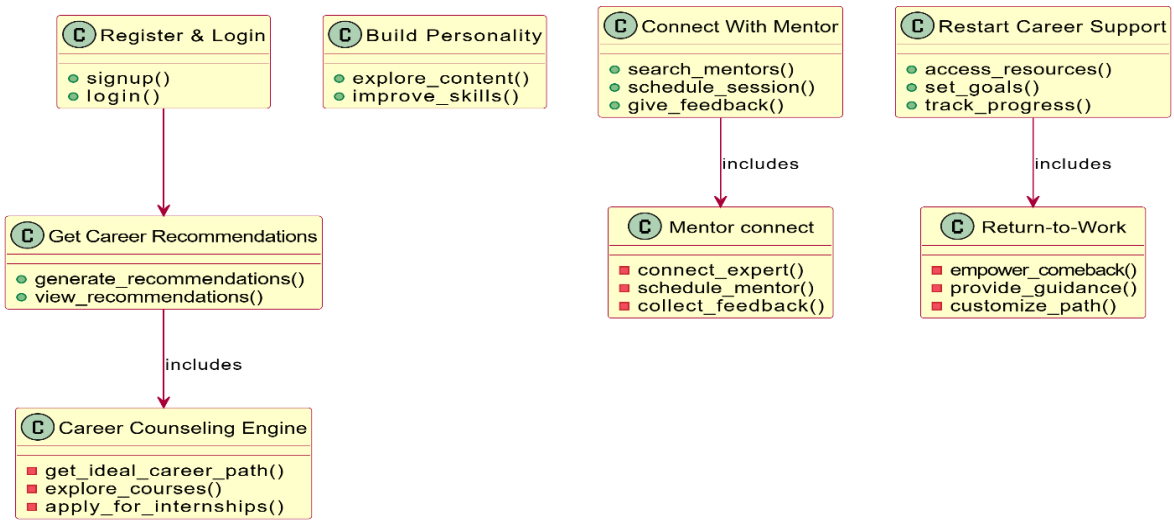

Figure 3.4.2 Class Diagram

Activity Diagram:

The process flows in the system are captured in the activity diagram. Similar to a state diagram, an activity diagram also consists of activities, actions, transitions, initial and final states, and guard conditions.

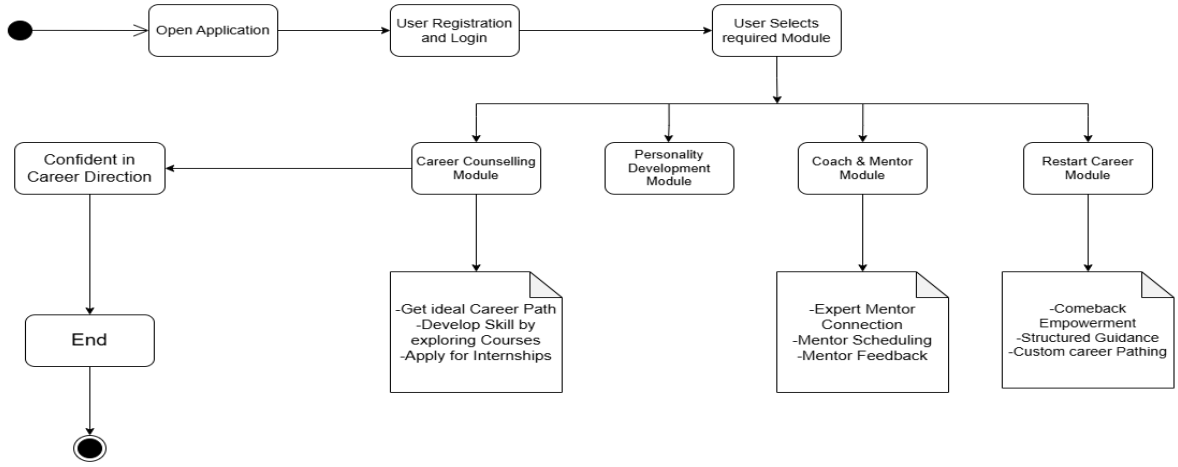

Figure 3.4.3 Activity Diagram

Sequence Diagram:

A sequence diagram represents the interaction between different objects in the system. The important aspect of a sequence diagram is that it is time-ordered. This means that the exact sequence of the interactions between the objects is represented step by step. Different objects in the sequence diagram interact with each other by passing "messages".

Figure 3.4.4 Sequence Diagram

Collaboration Diagram:

A collaboration diagram groups together the interactions between different objects. The interactions are listed as numbered interactions that help to trace the sequence of the interactions. The collaboration diagram helps to identify all the possible interactions that each object has with other objects.

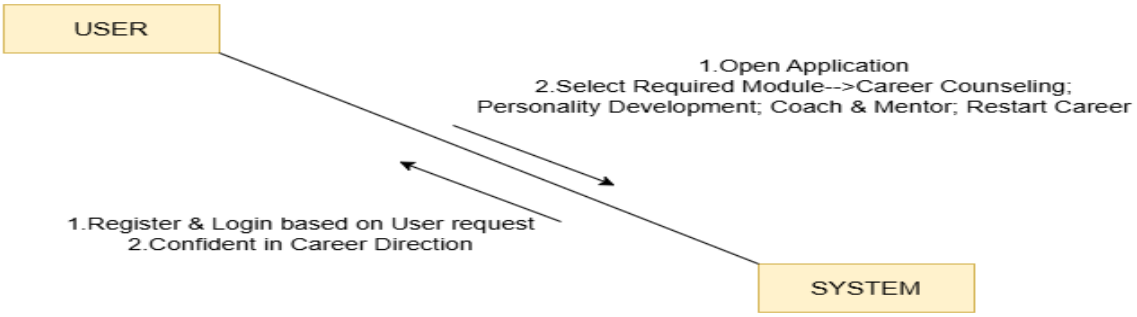

Figure 3.4.5 Collaboration Diagram

Deployment Diagram:

The deployment diagram captures the configuration of the runtime elements of the application. This diagram is by far most useful when a system is built and ready to be deployed.

Figure 3.4.6 Deployment Diagram

Component Diagram:

The component diagram represents the high-level parts that make up the system. This diagram depicts, at a high level, what components form part of the system and how they are interrelated. A component diagram depicts the components culled after the system has undergone the development or construction phase.

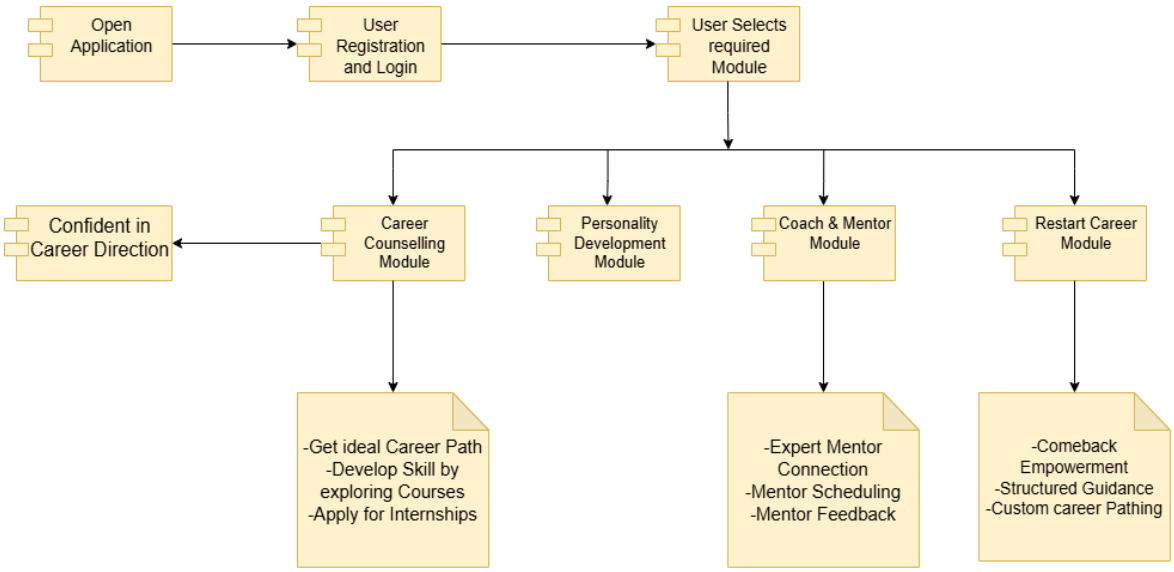

Figure 3.4.7 Component Diagram

CHAPTER 4

SYSTEM REQUIREMENTS

The system requirements for the development and deployment of the project as an application are specified in this section. These requirements are not be confused with the end-user system requirements. There are no specific, end-user requirements as the intended application is cross-platform and is supposed to work on devices of all form-factors and configurations.

4.1 SOFTWARE REQUIREMENTS

Below are the software requirements for application development:

- **Software:** Visual Studio Code
- **Primary Languages:** JavaScript, PHP
- **Frontend Technologies:** HTML, CSS, JavaScript, Bootstrap 4
- **Backend Framework:** Node.js with Express.js
- **Database:** MySQL (connected via PHP for database operations)

4.2 HARDWARE REQUIREMENTS

Hardware requirements for application development are as follows:

- **Operating System:** Windows Only
- **Processor:** i5 and above
- **Ram:** 8gb and above
- **Hard Disk:** 25 GB in local drive

4.3 FUNCTIONAL REQUIREMENTS

- **User Registration & Login:** The system shall allow users (students, mentors, counselors) to register and log in. The system shall implement role-based access control for different user types (e.g., student, admin, counselor).
- **Career Recommendation Engine:** The system shall analyze user data using AI/ML techniques to recommend suitable career paths aligned with their academic and personal interests.
- **Course & Job Mapping:** The system shall suggest relevant academic courses, certifications, and job roles that align with the recommended career paths.

- **Mentor-Mentee Matching:** The system shall match students with suitable mentors based on their career goals, mentor expertise, and availability.
- **Notifications:** The system shall send automated notifications (via Email/SMS/app) for important events such as mentor replies, upcoming meetings, or system updates.

4.4 NON-FUNCTIONAL REQUIREMENTS

- **Performance:** The system should respond to user interactions and queries within 2 seconds. The integrated machine learning model must generate career recommendations within 3 seconds.
- **Scalability:** The platform must be scalable to handle thousands of concurrent users without experiencing performance degradation.
- **Usability:** The user interface must be intuitive and responsive, ensuring accessibility for all users. It should be fully compatible with both desktop and mobile devices to provide a seamless experience across platforms.
- **Reliability & Availability:** The platform should maintain 99.9% uptime and include automatic failover mechanisms to ensure continuous availability. Regular data backups must be performed to prevent data loss during failures or unexpected issues.
- **Maintainability:** The system should be developed using a modular codebase architecture, allowing for easy updates, bug fixes, and feature enhancements. All APIs and backend services should be thoroughly documented to support future development and maintenance.
- **Interoperability:** The system should have the ability to integrate with external APIs and platforms such as LinkedIn, Coursera, and Calendly, enabling extended features and third-party service utilization.
- **Localization:** To support global expansion and regional diversity, the platform should offer multilingual capabilities, allowing users to interact with the system in their preferred language.

CHAPTER 5

MODULE DESIGN

5.1 MODULE DESIGN

Module design for career guidance involves dividing the system into distinct components, each tailored to handle a specific aspect of career planning and support.

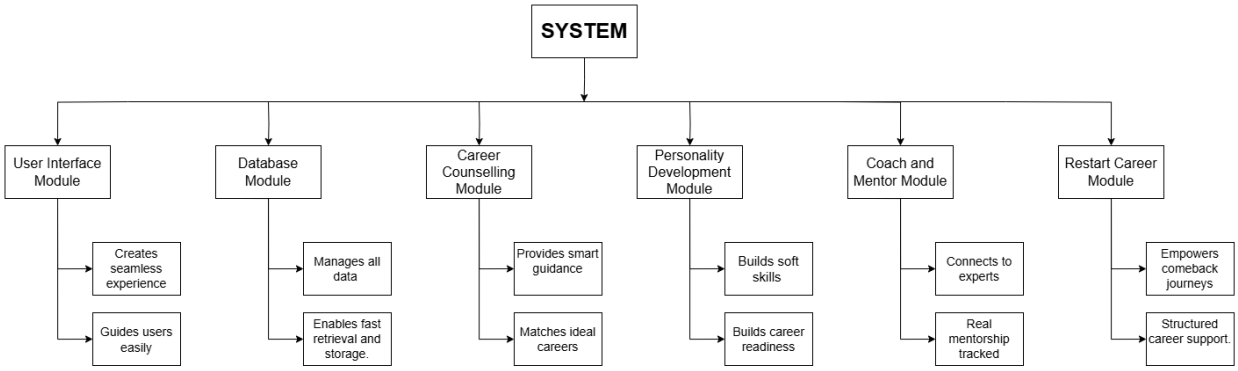

Figure 5.1.1 Module Diagram

User Interface Module:

The User Interface Module is designed to create an intuitive and user-friendly interface that caters to various user needs. It focuses on ensuring smooth navigation and seamless interaction with the system. This module adapts dynamically to different user roles and preferences, enhancing accessibility. A well-crafted UI is crucial for user engagement and ease of use throughout the system.

Database Module:

This module is responsible for securely storing user login credentials. It employs encryption and robust authentication protocols to safeguard sensitive information. The database ensures reliable session management and quick login validation. Data integrity and user privacy are maintained to meet security standards and compliance requirements.

Career Counselling Module:

The Career Counselling Module is a software component designed to assist users in making informed academic and professional decisions. It helps users identify suitable career paths based on their interests, skills, and goals. The module often incorporates assessments, questionnaires, and data analysis to recommend the best career streams. Additionally, it supports users through stream selection, skill development, and connecting with internship opportunities for real-world exposure.

Personality Development Module:

The Personality Development Module focuses on enhancing users' interpersonal and professional skills, such as communication, confidence, and etiquette. It plays a vital role in preparing individuals for workplace environments by fostering emotional intelligence and social awareness. This module may include interactive sessions, role-play exercises, and feedback mechanisms to promote personal growth. Ultimately, it ensures that users are better equipped for interviews, teamwork, and leadership roles.

Coach and Mentor Module:

The Coach and Mentor Module is a guidance-based component that connects users with experienced professionals for mentorship and support. Its purpose is to provide personalized advice, career planning assistance, and motivational support tailored to each user's aspirations. This module may include features like mentor matching, progress tracking, and one-on-one sessions. It is instrumental in helping users navigate challenges and achieve long-term career goals through structured mentorship.

Restart Career Module:

The Restart Career Module is designed to support individuals re-entering the workforce after a career break. It evaluates current competencies, identifies skill gaps, and recommends personalized training or upskilling opportunities. The module often includes features like resume updating tools, job matching systems, and interview preparation resources. Its primary goal is to facilitate a smooth transition back into a professional career and boost confidence in career returnees.

CHAPTER 6

IMPLEMENTATION

6.1 IMPLEMENTATION

For the development of this project, the frontend was built using HTML, CSS, and JavaScript to create a responsive and interactive user interface. The backend was implemented using a combination of PHP and Node.js. PHP was used to handle user registration and login functionalities, ensuring secure data handling and session management. For backend services like sending email notifications, Node.js with Express.js was used, leveraging tools such as Nodemailer to send confirmation and alert emails to users. JavaScript handled client-side validations, while PHP ensured server-side data validation. User information and form data were stored in a MySQL database. Security measures like input sanitization and password hashing were implemented to protect user data. Real-time feedback and error messages enhanced user interaction. Finally, the project was deployed on a web server with proper structure and thorough testing for smooth functionality.

6.2 SOURCE CODE

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
  <title>Career Guidance</title>
  <link rel="stylesheet" href="style.css" />
 <linkrel="stylesheet"href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.5.2/css/all.min.css" crossorigin="anonymous" referrerpolicy="no-referrer"/>
  <style>
    .user-menu {
      position: relative;}
    .user-menu .dropdown {
      display: none;
      position: absolute;
      background-color: white;
      right: 0;
```

```
      top: 100%;
      box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
      list-style: none;
      padding: 0;
      margin: 0;
      min-width: 120px;
      z-index: 100;}
    .user-menu .dropdown li {
      padding: 10px;
      text-align: left;
    }
    .user-menu .dropdown li a {
      text-decoration: none;
      color: #333;
      display: block;}
    .user-menu .dropdown li:hover {
      background-color: #f0f0f0;}
  </style>
</head>
<body>
  <div class="container1">
    <div class="navbar">
      <div class="logo">
        <img src="images/compass1.png" width="100px" />
      </div>
      <nav> <ul>
          <li><a href="index.html">Home <i class="fa-solid fa-house"></i></a></li>
                <li><a href="coachandmentor.html">Mentors <i class="fa-solid fa-chalkboard-user"></i></a></li>
          <li><a href="contact.html">Contact <i class="fa-solid fa-phone"></i></a></li>
          <li class="user-menu" id="userMenu">
            <a href="login.html" id="userLink">Login/Signup <i class="fa-solid fa-user"></i></a>
            <ul class="dropdown" id="userDropdown">
              <li><a href="#" onclick="logout()">Logout</a></li>
```

```
        </ul>
       </li></ul>
    </nav>
  </div></div>
 <section>
  <div class="header">
   <div class="container">
    <div class="backgroundimage">
     <div class="hero">
      <div class="row">
       <button onclick="scrollToSection('products')" class="btn-x">Explore Services</button>
      </div>  </div> </div> </div> </div>
 </section>
 <section class="products" id="products">
  <div class="container">
   <h2 class="title">OUR SERVICES</h2>
   <br />
   <div class="card-container">
       <div class="card">
                  <img src="images/career_counselling.jpg" class="card-img-top" alt="Career
Counselling">
          <div class="card-body">
             <h5 class="card-title">Career Counselling</h5>
             <p class="card-text">Get guidance on your career choices.</p>
             <a href="career.html" class="btn">Explore</a>
          </div></div>
       <div class="card">
              <img src="images/persona_develop.webp" class="card-img-top" alt="Personality
Development">
          <div class="card-body">
             <h5 class="card-title">Personality Development</h5>
             <p class="card-text">Enhance your personal & professional skills.</p>
             <a href="personality_development.html" class="btn">Explore</a>
          </div></div>
```

```
        <div class="card">
          <img src="images/coach_mentor.jpg" class="card-img-top" alt="Coach & Mentor">
          <div class="card-body">
            <h5 class="card-title">Coach & Mentor</h5>
            <p class="card-text">Get mentorship to advance in your career.</p>
            <a href="coachandmentor.html" class="btn">Explore</a>
          </div>
        </div>
        <div class="card">
          <img src="images/restartcareer.avif" class="card-img-top" alt="Restart Career">
          <div class="card-body">
            <h5 class="card-title">Restart Career</h5>
            <p class="card-text">Resume your career after a break.</p>
            <a href="restartcareer.html" class="btn">Explore</a>
          </div>
        </div></div></div>
</section>
<section>
  <footer>
    <div class="row1">
      <div class="coll logo-section">
        <img src="images/compass1.png" class="logo" />
        <p><b><i class="fa-solid fa-phone"></i> +91-9876543210</b></p>
        <h2 style="color:black">Where Uncertainty Fades!</h2>
      </div>
      <div class="coll links">
        <h3 class="title">Links</h3>
        <ul>
          <li><a href="#">Home</a></li>
          <li><a href="#">Mentors</a></li>
          <li><a href="#">About Us</a></li>
          <li><a href="#">Features</a></li>
          <li><a href="#">Contact Us</a></li>
        </ul>
```

```
      </div>
      <div class="coll contact">
        <h3 class="title">Get in Touch</h3>
        <form class="footer-form">
          <input type="text" placeholder="Enter your name" required />
          <input type="email" placeholder="Enter your email" required />
          <input type="tel" placeholder="Enter your phone number" required />
          <select required>
            <option value="" disabled selected>Preferred call time</option>
            <option value="Morning">Morning</option>
            <option value="Afternoon">Afternoon</option>
            <option value="Evening">Evening</option>
          </select>
          <button type="submit">Submit</button>
        </form>
      </div>
    </div>
  </footer>
 </section>
 <script>
(function(){if(!window.chatbase||window.chatbase("getState")!=="initialized"){window.chatbase
=(...arguments)=>{if(!window.chatbase.q){window.chatbase.q=[]}window.chatbase.q.push(argu
ments)};window.chatbase=new Proxy(window.chatbase,{get(target,prop){if(prop==="q"){return
target.q}return(...args)=>target(prop,...args)}})}const onLoad=function(){const
script=document.createElement("script");script.src="https://www.chatbase.co/embed.min.js";scrip
t.id="8oRjm0tR7IXw8i1sXqPzA";script.domain="www.chatbase.co";document.body.appendChil
d(script)};if(document.readyState==="complete"){onLoad()}else{window.addEventListener("loa
d",onLoad)}})();
</script>
 <script>
   function scrollToSection(id) {
     document.getElementById(id).scrollIntoView({ behavior: "smooth" });
   }
```

```
    window.onload = function () {
      const isLoggedIn = localStorage.getItem("isLoggedIn") === "true";
      const username = localStorage.getItem("username");
      const userLink = document.getElementById("userLink");
      const userDropdown = document.getElementById("userDropdown");
      if (isLoggedIn && username) {
        userLink.innerHTML = `${username} <i class="fa-solid fa-caret-down"></i>`;
        userLink.href = "#";
        userDropdown.style.display = "none";
      } else {
        userLink.innerHTML = `Login/Signup <i class="fa-solid fa-user"></i>`;
        userLink.href = "login.html";
        userDropdown.style.display = "none";
      }
      userLink.addEventListener("click", function (e) {
        if (isLoggedIn) {
          e.preventDefault();
          userDropdown.style.display = userDropdown.style.display === "block" ? "none" : "block";
        }
      });
    };
    function logout() {
      localStorage.setItem("isLoggedIn", "false");
      localStorage.removeItem("username");
      window.location.href = "login.html";
    }
  </script>
</body>
</html>
        .btn-x:hover{
        background-color: cadetblue;
        }
          .service-card img {
            width: 100%;
```

```
        height: 150px; /* Fixed height for uniformity */
        object-fit: cover; /* Ensures images maintain aspect ratio and fill the space */
        border-radius: 10px; /* Consistent rounded corners */
        border: 2px solid #1e3a8a; /* Border for consistency */
    }
    .section-container button {
    padding: 10px 20px;
    font-size: 16px;
    background-color: #007bff;
    color: white;
    border: none;
    border-radius: 6px;
    cursor: pointer;
    transition: background-color 0.3s ease;
    margin-top: 20px;
}
.section-container button:hover {
    background-color: #0056b3;
}
#pdfResources {
    margin-top: 20px;
    text-align: left;
    display: none;
    animation: fadeIn 0.3s ease-in-out;
}
#pdfResources ul {
    list-style-type: none;
    padding: 0;
}
#pdfResources li {
    background-color: #ffffff;
    margin: 8px 0;
    padding: 12px 16px;
    border-radius: 6px;
```

```
    box-shadow: 0 2px 5px rgba(0, 0, 0, 0.05);
    transition: transform 0.2s ease;
#pdfResources li:hover {
    transform: scale(1.02);
    background-color: #f1f9ff;
}
#pdfResources a {
    text-decoration: none;
    color: #007bff;
    font-weight: bold;
}
#pdfResources a:hover {
    text-decoration: underline;
}
@keyframes fadeIn {
    from { opacity: 0; transform: translateY(-10px); }
    to { opacity: 1; transform: translateY(0); }
}
</style>
<script>
    function openCourse(courseType) {
        const courseLinks = {
            'web': 'https://www.udemy.com/course/the-complete-web-development-bootcamp/',
            'data': 'https://www.coursera.org/specializations/data-science-foundations',
            'digital': 'https://www.coursera.org/specializations/digital-marketing',
            'ai': 'https://www.udemy.com/course/machinelearning/'
        };
        if (courseLinks[courseType]) {
            window.open(courseLinks[courseType], '_blank');
        } else {
            alert('Course details are unavailable at the moment.');
        } }
    function bookCounsellorSession() {
```

```
        document.getElementById("counsellorModal").style.display = "block";
      }
    </script>
</head>
<body>
    <header>
      <h1>Skill Development Hub</h1>
    </header>
    <section class="section-container" id="services">
      <h1>Course Links</h1>
      <div class="service-list">
        <div class="service-card" onclick="openCourse('web')">
          <img src="images/webdevelop.jpg" alt="Web Development" style="width:100%; border-
radius:10px;">
           <p>Web Development</p>
        </div>
        <div class="service-card" onclick="openCourse('data')">
            <img src="images/data_science.jpg" alt="Data Science" style="width:100%; border-
radius:10px;">
           <p>Data Science</p>
        </div>
        <div class="service-card" onclick="openCourse('digital')">
          <img src="images/digitalimages.jpg" alt="Digital Marketing" style="width:100%; border-
radius:10px;">
           <p>Digital Marketing</p>
        </div>
        <div class="service-card" onclick="openCourse('ai')">
          <img src="images/aiml.webp" alt="AI & ML" style="width:100%; border-radius:10px;">
           <p>AI & Machine Learning</p>
        </div>
        <div class="service-card" onclick="openCourse('aptitude &Reasoning')">
                    <img src="images/aptitude&reasoning.jpg" alt="Aptitude & Reasoning"
style="width:100%; border-radius:10px;">
           <p>Aptitude & Reasoning</p>
```

```
        </div>
      </div>
    </section>
    <section class="section-container" id="resources">
    <h1>Resource Library</h1>
    <h2><i>Access guides, tutorials, and materials for skill enhancement.</i></h2>
    <button onclick="toggleResources()" style="margin-top: 10px;">Access</button>
    <div id="pdfResources" style="display: none; margin-top: 15px;">
      <ul>
        <li><a href="pdfs/webprog_top.pdf" target="_blank">Web Development Notes</a></li>
        <li><a href="pdfs/Aptitude.pdf" target="_blank">Aptitude Notes</a></li>
        <li><a href="pdfs/Datascience.pdf" target="_blank">Data Science Notes</a></li>
        <li><a href="pdfs/ai-notes.pdf" target="_blank">Artificial Intelligence Notes</a></li>
                <li><a href="pdfs/digital-marketing.pdf" target="_blank">Digital Marketing
Notes</a></li>
        <li><a href="pdfs/ml-notes.pdf" target="_blank">Machine Learning Notes</a></li>
      </ul>
    </div>
    </section>
    <script>
    function toggleResources() {
      const section = document.getElementById("pdfResources");
      section.style.display = (section.style.display === "none") ? "block" : "none";
    }
    </script>
</body>
</html>
```

Style.css

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

```
.container,.navbar
{
    width:100%;
    margin:auto;
}
.navbar{
    display:flex;
    align-items: center;
    padding:20px;
    background-color:cadetblue;}
nav{
    flex:1;
    text-align:right;}
nav ul{
    display:inline-block;
    list-style-type: none;}
nav ul li{
    display:inline-block;
    margin-right:20px;
    font-size: 22px;}
a{
    text-decoration: none;
    color:black;}
nav ul li :hover{
    color:blueviolet;}
.container1{
    max-width:100%;
    margin:auto;
    overflow:hidden;
}
.container{
    max-width:1400px;
    margin:auto;
    overflow:hidden; }
```

```
.backgroundimage{
    background-image:url(images/careerGuidance.png);
    height:750px;
    width:100%;
    background-size:cover;
}
.hero{
    display:flex;
    align-items:center;
    flex-wrap:wrap;
    justify-content:space-around;}
.row{
    flex-basis:50%;
    min-width:300px;
    text-align:right;
    padding:50px 0;}
.row img{
    max-width:100%;
    padding:50px 0;
    box-sizing: border-box;}
.row h1{
    font-size: 50px;
    margin:2px 0;}
.row p{
    font-size:20px;
    margin-bottom: 20px;}
.btn-x{
    display:inline-block;
    background-color:mediumorchid;
    color:white;
    padding:8px 30px;
    margin:225px 0;
    border-radius:30px;
    transition: background-color 0.5s;   }
```

```
.btn-x:hover{
    background-color: cadetblue;
}
.header .row{
    margin-top:70px;
}
.title{
    text-align:center;
    margin:0 autto 80px;
    position:relative;
    line-height:60px;
    color:green;
}
.title::after{
    content:'';
    background:rgb(87, 87, 199);
    width:80px;
    height:5px;
    border-radius:5px;
    position:absolute;
    bottom:0;
    left:50%;
    transform:translateX(-50%);
}
.card-container {
    display: flex;
    flex-wrap: wrap;
    gap: 20px;
    justify-content: center;
}
.card {
    width: 18rem;
    height: 30rem;
    display: flex;
    flex-direction: column;
```

```
    border-radius: 10px;
    overflow: hidden;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
    transition: transform 0.3s ease, box-shadow 0.3s ease;
    background: white;}
.card:hover {
    transform: translateY(-5px);
    box-shadow: 0 8px 16px rgba(0, 0, 0, 0.2);}
.card img {
    width: 100%;
    height: 300px;
    object-fit: cover;
    display: block; }
.card-body {
    flex: 1;
    display: flex;
    flex-direction: column;
    padding: 15px;
    text-align: center;
    min-height: 160px; }
.card-title {
    font-size: 1.2rem;
    font-weight: bold;}
.card-text {
    flex-grow: 1;
    font-size: 0.95rem;
    color: #555;}
.btn {
    display: inline-block;
    text-decoration: none;
    background-color: #007bff;
    color: white;
    padding: 10px 15px;
    border-radius: 5px;
```

```
    transition: background 0.3s ease;
    margin-top: auto; }
.btn:hover {
    background-color: #0056b3;}
footer {
    width: 100%;
    background: linear-gradient(to right,rgb(74, 119, 148),cadetblue);
    color: white;
    padding: 60px 0 30px;
    border-top-left-radius: 125px;
    font-size: 15px;
    line-height: 22px;
    text-align: center;}
.row1 {
    width: 85%;
    margin: auto;
    display: flex;
    flex-wrap: wrap;
    align-items: flex-start;
    justify-content: space-between;}
.coll {
    flex: 1;
    padding: 15px;
    min-width: 250px;}
.logo {
    width: 100px;
    margin-bottom: 15px;}
.logo-section p {
    font-size: 16px;
    color: black;}
.links h3 {
    margin-bottom: 20px;
    transition: color 0.5s;}
```

```
.links ul {
    padding: 0;
    list-style: none;}
.links ul li {
    margin: 10px 0;}
.links ul li a {
    text-decoration: none;
    color: black;
    font-size: 16px;
    transition: 0.3s;}
.links ul li a:hover {
    color: blue;}
.contact h3 {
    margin-bottom: 15px;}
.footer-form {
    max-width: 350px;
    margin: auto;
    display: flex;
    flex-direction: column;
    gap: 10px;
}
.footer-form input, .footer-form select {
    width: 100%;
    padding: 12px;
    border: none;
    border-radius: 5px;
    font-size: 16px;
    background: white;
    color: black;}
.footer-form button {
    background: #ff6f61;
    color: white;
    border: none;
    padding: 12px;
```

```
    border-radius: 5px;
    font-size: 18px;
    cursor: pointer;
    transition: background 0.3s ease;}
.footer-form button:hover {
    background: #e64c3c;
}
.user-menu {
  position: relative;}
.user-menu .dropdown {
    display: none;
    position: absolute;
    background-color: white;
    list-style: none;
    padding: 10px;
    box-shadow: 0 0 10px rgba(0,0,0,0.1);}
.user-menu:hover .dropdown {
    display: block;}
.user-menu .dropdown li a {
  display: block;
  padding: 8px 16px;
  color: #333;
  text-decoration: none;}
.user-menu:hover .dropdown {
  display: block;}
@media (max-width: 768px) {
    .row1 {
        flex-direction: column;
        align-items: center;
        text-align: center;
    }
    .coll {
        margin-bottom: 20px;}}
```

CHAPTER 7

RESULTS

Our platform offers personalized guidance, mentorship, and insights for students, job seekers, mentors, and career counselors. It empowers individuals to make informed career decisions and achieve their professional goals.

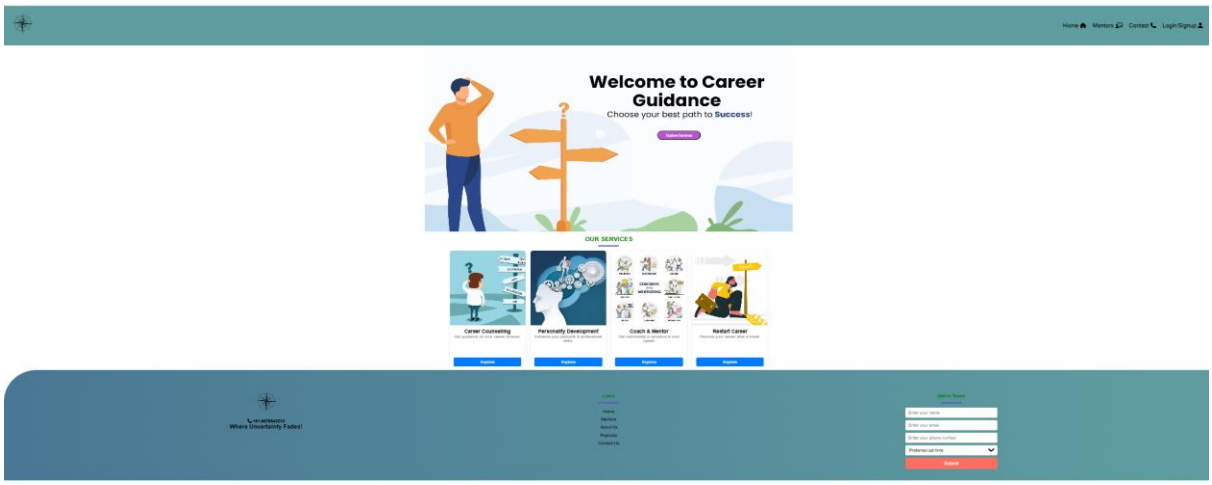

Figure 7.1 Home Page

The homepage of our Career Guidance Platform features a clean, modern design that inspires clarity and motivation. It welcomes users with the prompt, “Choose your best path to Success,” setting an encouraging tone. The top-right navigation menu provides easy access to Home, Mentors, Contact, and Login/Signup. A dedicated "Our Services" section highlights Career Counseling, Personality Development, Coach & Mentor Connect, and Realist Career Planning with clear titles and action buttons. The layout promotes seamless navigation and user engagement. The footer includes extra links and a contact form to support ongoing interaction.

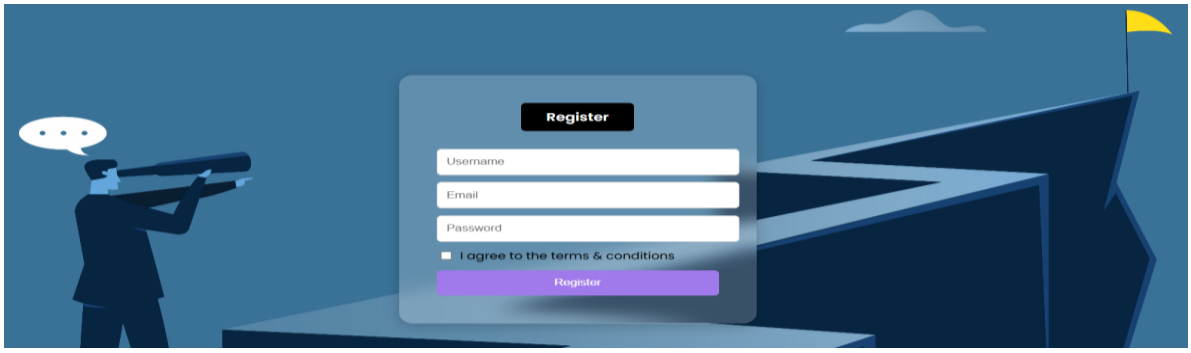

Figure 7.2 Registration Page

The registration page features a simple, user-friendly design with fields for username, email, and password. Users must agree to terms via a checkbox before registering. A calming color

scheme and clear "Register" button guide users smoothly. An illustration reinforces career guidance. The layout ensures clarity and easy onboarding for new users.

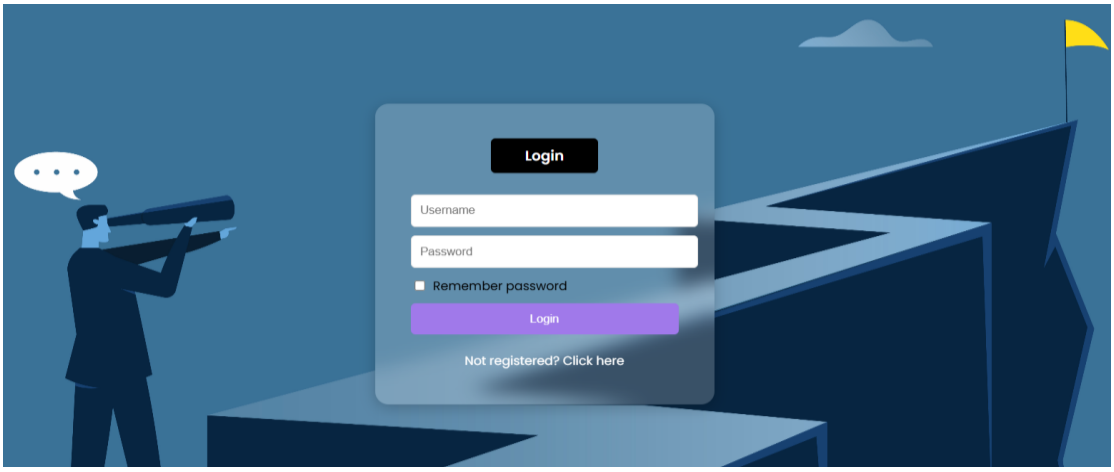

Figure 7.3 Login Page

The login page is simple and easy to use. Users enter their username and password in clear fields, with an option to remember their login details. A big login button helps users sign in quickly. There's also a link for new users to register. The clean layout looks professional and is easy to navigate. The background image adds a sense of progress without distracting from the main form. Overall, it helps users log in smoothly and get started quickly.

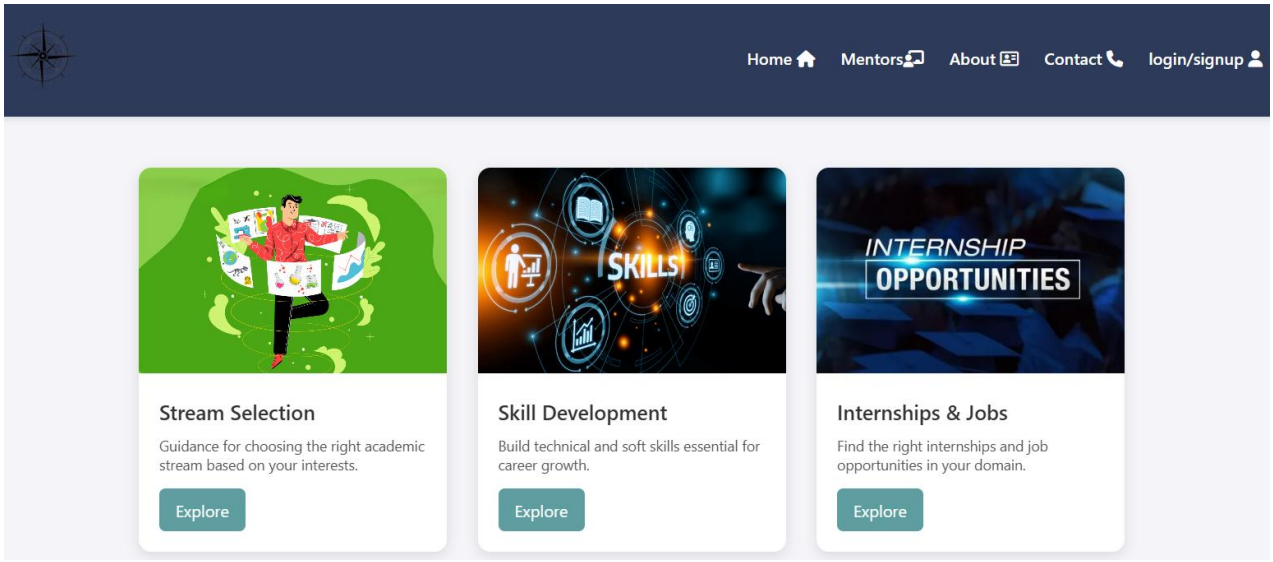

Figure 7.4 Career Counselling Services Page

This image visually represents a **Career Counselling Services interface**, offering **three core services** to help students and young professionals make informed decisions about their academic and career paths. Each service is shown in a distinct card layout with engaging visuals, a title, a brief description, and an "Explore" button for further navigation.

Stream Selection: This service helps students choose the best academic path by assessing their interests, strengths, and goals.

Skill Development: This service enhances technical and soft skills to prepare students and professionals for current industry demands.

Internships & Jobs: This service helps users find internships and entry-level jobs matching their skills and interests, offering listings, application support, and employer connections.

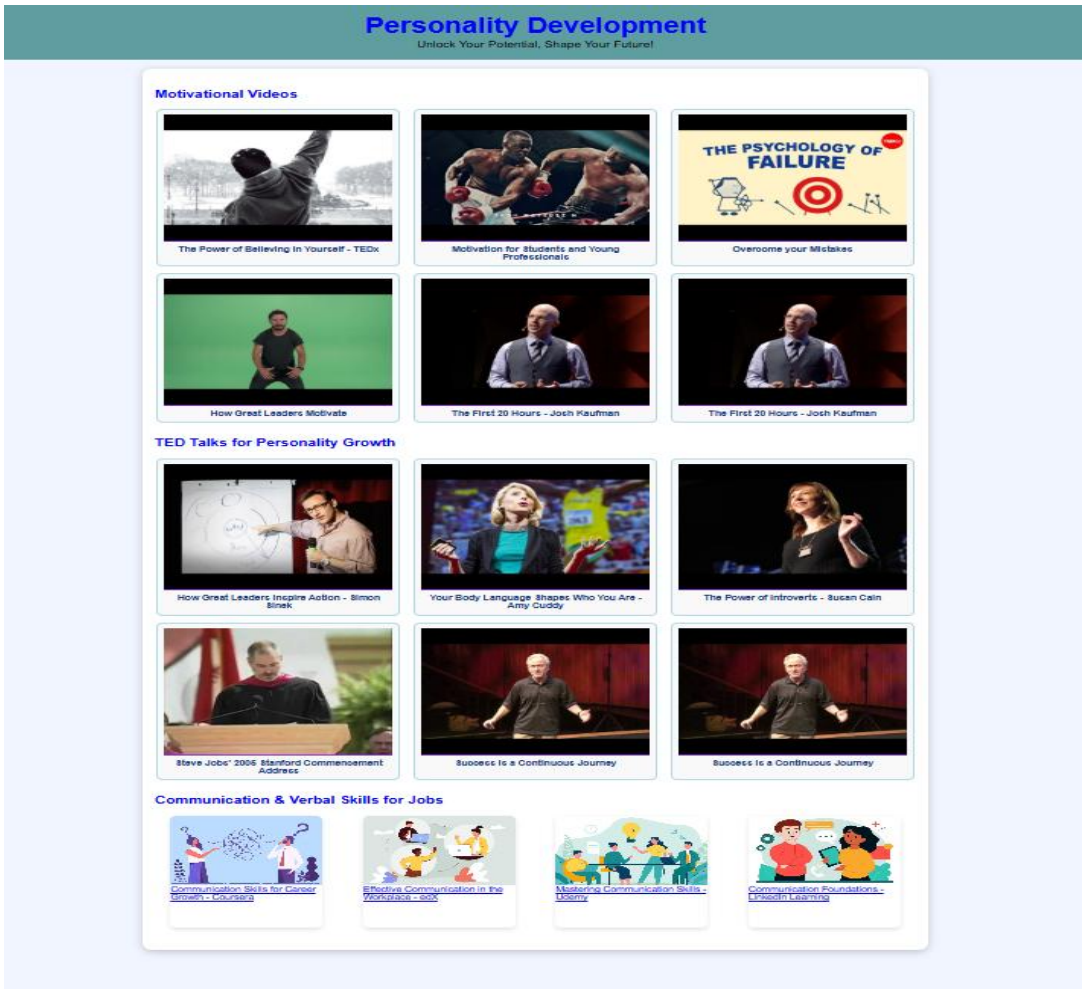

Figure 7.5 Personality Development Page

The **Personality Development** service, as shown in the image, offers a well-organized and engaging platform designed to help users unlock their potential and shape their future. It includes **curated YouTube videos, TED Talks, and communication courses** categorized into three main sections:

- **Inspirational YouTube Videos:** Access handpicked TED Talks and motivational videos that inspire and guide you towards a positive mindset and growth-oriented habits.

- **Communication Skills Courses:** Learn effective verbal and non-verbal communication techniques through structured online courses aimed at improving your interpersonal skills, public speaking, and professional communication.
- **Motivational Content:** Daily doses of motivation to keep you focused, driven, and ready to face challenges with a resilient attitude.

Figure 7.6 Coach and Mentor Page

The Coach and Mentor page is a dedicated section where users can connect with experienced professionals who provide guidance, support, and personalized advice to help mentees achieve their personal and career goals. It includes a scheduling system where users can view mentor availability and book sessions at their preferred time, ensuring a smooth and organized connection.

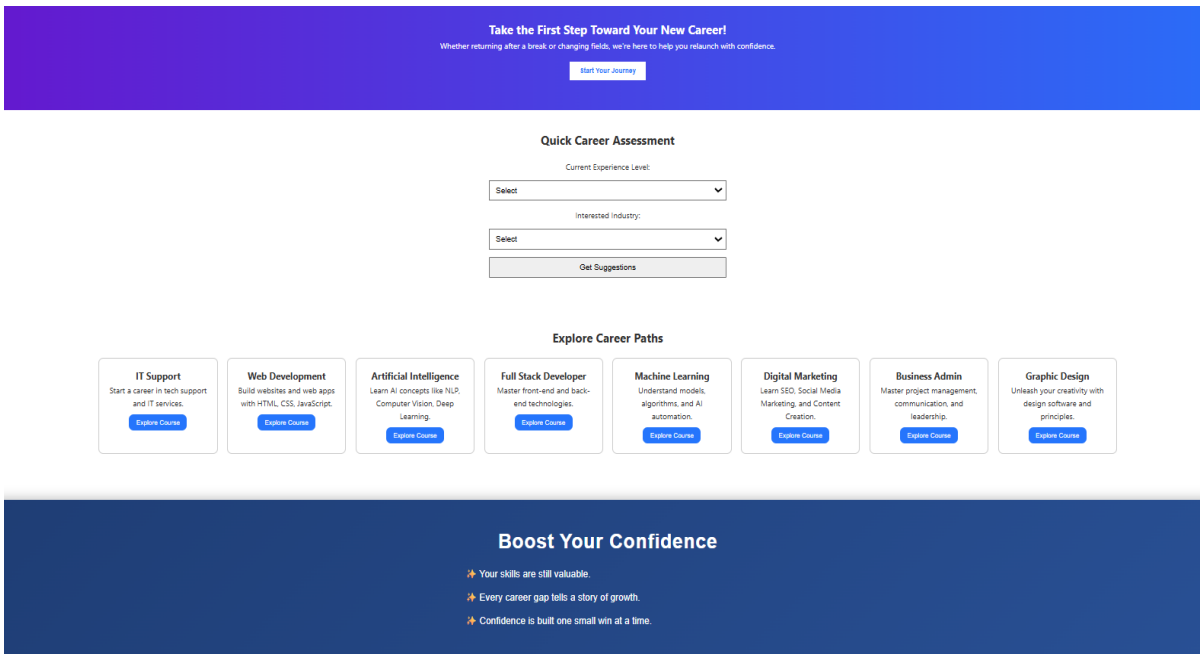

Table 7.7 Restart Career Page

The **Restart Career** page helps individuals re-enter the workforce or change careers after a break. It offers resources like career counseling, skill-building courses, and mentorship. Users receive personalized plans to regain confidence and update skills. The goal is to support a smooth, successful transition back into professional life.

CHAPTER 8
CONCLUSION

In conclusion, the Career Guidance platform offers an accessible and user-friendly solution to support individuals at various stages of their career journey. With key modules like Career Paths, Mentor Connect, Personality Development, and Restart Career, it helps users explore options, connect with mentors, and build essential soft skills. The platform fosters confidence and provides valuable guidance for those starting, progressing, or pivoting their careers. By combining these features, it creates a holistic environment for career growth. As digital tools evolve, this platform plays an important role in empowering users to make informed and confident career decisions.

FUTURE ENHANCEMENTS

Future improvements for the Career Guidance platform could include the integration of AI-driven personalized recommendations to better tailor career paths based on user profiles and preferences. Adding real-time chat or video communication within the Mentor Connect module would enhance interaction and support. Expanding the Personality Development section with interactive assessments and feedback could further boost users' self-awareness and growth. Incorporating partnerships with educational institutions and employers may provide users with updated opportunities and certifications. Additionally, developing a mobile app version could increase accessibility and user engagement. Ongoing user feedback and data analytics will be vital to refining the platform's features and ensuring it meets evolving career guidance needs.

REFERENCES

[1] Brown, D. (2019). *Career Information, Career Counseling, and Career Development*. Pearson Education.

[2] Niles, S. G., & Harris-Bowlsbey, J. (2017). *Career Development Interventions* (5th ed.). Pearson.

[3] Lent, R. W., Brown, S. D., & Hackett, G. (1994). Toward a unifying social cognitive theory of career and academic interest, choice, and performance. *Journal of Vocational Behavior*, 45(1), 79-122.

[4] Patton, W., & McMahon, M. (2014). *Career Development and Systems Theory: Connecting Theory and Practice*. Springer.

[5] Mentoring Works. (2022). *Effective Mentoring Practices*. Retrieved from https://www.mentoringworks.com/resources

[6] Personality Development and Career Success. (2021). *International Journal of Advanced Research in Social Sciences*, 8(4), 35-42.

[7] World Economic Forum. (2020). *The Future of Jobs Report*. Retrieved from https://www.weforum.org/reports/the-future-of-jobs-report-2020

[8] CareerOneStop. (2023). *Career Exploration Tools and Resources*. U.S. Department of Labor. https://www.careeronestop.org

[9] Smith, J., & Doe, A. (2020). Enhancing Career Guidance through Digital Platforms. *International Journal of Educational Technology*, 15(2), 112-130.

[10] Oliver, L. W., & Spokane, A. R. (1988). Career Counseling: A Review of Research and Practice. *Journal of Counseling Psychology*, 35(3), 314–332.

[11] Betz, N. E., & Hackett, G. (1981). The Relationship of Career-Related Self-Efficacy Expectations to Career Choice Behavior. *Journal of Counseling Psychology*, 28(5), 399–410.

[12] Crisp, G., & Cruz, I. (2009). Mentoring College Students: A Critical Review of the Literature Between 1990 and 2007. *Research in Higher Education*, 50(6), 525–545.

[13] Kaur, M., & Kaur, R. (2015). Role of Personality Development in Career Enhancement. *International Journal of Advanced Research in Management and Social Sciences*, 4(7), 1–9.

[14] UNESCO. (2019). *Guidelines for Career Guidance and Counseling in Education*. UNESCO Publishing.

[15] Brown, S. D., & Lent, R. W. (2016). Social Cognitive Career Theory in a Diverse World. *Journal of Career Assessment*, 24(1), 3–6.