**TABLE OF CONTENTS**

|  |  |  |
| --- | --- | --- |
| **S.NO** | **TITLE** | **PAGE NO** |
|  | **ABSTRACT** |  |
| 1 | **INTRODUCTION** | **1-5** |
|  | 1.1 Introduction | 1-2 |
|  | 1.2 Objective | 3 |
|  | 1.3 Scope | 3 |
|  | 1.4 Project Outline | 4 |
| 2 | **LITERATURE SURVEY** | **5-7** |
| 3 | **SYSTEM STUDY AND ANALYSIS** | **8-11** |
|  | 3.1 Problem Statement | 9 |
|  | 3.2 Existing System | 9 |
|  | 3.3 Limitations | 9 |
|  | 3.4 Proposed System | 10 |
|  | 3.5 Advantages | 10 |
|  | 3.6 Functional Requirements | 10 |
|  | 3.7 Non-Functional Requirements | 10 |
|  | 3.8 System Requirements | 11 |
|  | 3.8.1 Hardware Requirements | 11 |
|  | 3.8.2 Software Requirements | 11 |
| 4 | **SYSTEM DESIGN** | **12-18** |
|  | 4.1 System Architecture Design | 13 |
|  | 4.2 Uml Diagrams | 14-18 |
| 5 | **TECHNOLOGIES** | **19-24** |
|  | 5.1 HTML | 20 |
|  | 5.2CSS | 20 |
|  | 5.3 Bootstrap | 21 |
|  | 5.4 Java Script | 22 |
|  | 5.5PHP | 23 |
|  | 5.6 Database MySQL | 23-24 |
| 6 | **IMPLEMENTATION** | **25-36** |
|  | 6.1 Implementation Steps | 25 |
|  | 6.2 Code | 26-36 |
| 7 | **TESTING** | **37-40** |
|  | 7.1 Introduction of testing | 38 |
|  | 7.2 Test Objectives | 38 |
|  | 7.3Testing Strategies | 38 |
|  | 7.3.1 unit Testing | 39 |
|  | 7.3.2 Integration Testing | 39 |
|  | 7.3.3 Functional Testing | 39 |
|  | 7.3.4 System Testing | 40 |
|  | 7.3.5 Acceptance Testing | 40 |
| 8 | **SCREENSHOTS** | **41-44** |
| 9 | **CONCLUSION AND FUTURE WORK** | 45-46 |
| 10 | **REFERENCES** | 47-48 |

**ABSTRACT**

Selecting the right career is an immensely significant decision for students, and it often poses a complex and daunting challenge. To help them make informed choices, it's essential for students to evaluate their skills, interests, and capabilities thoroughly. Our application is designed to provide invaluable guidance, especially during pivotal stages in a student's education, such as after completing the 10th or 12th grade. It serves as a compass, guiding them toward the correct career path and shedding light on areas that require further development. Our approach involves the utilization of aptitude tests, which delve deep into a student's unique strengths and inclinations. These tests form the basis for tailored career guidance aimed at enhancing their potential for success. The application integrates advanced web development techniques, ensuring an exceptional user experience and robust data visualization. This combination results in a user-friendly and effective tool that empowers students to make well-informed career decisions.

The process of choosing the right career is pivotal for students, marked by its complexity. Our application steps in to simplify this journey, aiding students in assessing their skills and interests and providing guidance at critical educational junctures. By utilizing aptitude tests and advanced web development techniques, we empower students to reach their full potential and pursue careers that align with their unique strengths and aspirations.

**CHAPTER -1**

**INTRODUCTION**

**1 Introduction**

* 1. **Introduction**

In today's rapidly changing and complex world, making informed decisions about one's career has become more crucial. This is where career guidance plays a vital role, serving as a guiding light to help individuals navigate the intricate journey of selecting and advancing in a profession. Career guidance encompasses a broad spectrum of resources, including assessments, tools, and expert advice, all tailored to an individual's unique skills, interests, and ambitions.

By harnessing these valuable resources, individuals can align their aspirations with reality, make well-thought-out choices, and embark on a path that not only leverages their talents but also promises personal and professional growth and fulfilment. Whether someone is at the crossroads of their education, contemplating a career change, or looking for ways to advance within their current field, career guidance remains an essential asset for fostering successful and satisfying professional lives.

The development of a Web-Based career guidance system is indeed a valuable resource for students who have completed their 10th and 12th grades, as well as for their parents, who may be seeking clarity regarding their children's career paths. This innovative platform not only simplifies the decision-making process but also provides comprehensive support for informed choices.

The system's functionality is well-structured, starting with user registration and login, allowing students to select their relevant grade level for career guidance. The inclusion of an aptitude test covering various sections such as quantitative, logical, and verbal skills is a valuable feature, as it helps students understand their strengths and areas for improvement. The subsequent provision of a detailed analysis and career recommendations based on the test results enhances the user experience.

Moreover, the system's integration of web technologies for visual representation and analysis adds an extra layer of sophistication and insight. This helps students and parents gaina

clear understanding of the available career options and make informed decisions. The display of colleges associated with each career choice, along with location, fees, and ratings, is a practical feature that aids in planning higher education.

If effectively utilized, this application can significantly contribute to helping students and their parents make well- informed decisions about their future career paths, enhancing their prospects for success and satisfaction in their chosen fields.

* 1. **Motivation**

Choosing the right career is a significant milestone in a student's life, and it can be a daunting process. To assist students in this critical decision-making journey and provide them with motivation, a student recommendation system for career guidance can be invaluable. Such a system would leverage data and insights to offer personalized career advice and motivate students to pursue their dreams

**1.3 Scope**

Career guidance recommendation systems have a broad and far-reaching scope, touching not only the lives of students but also leaving a significant impact on the educational landscape, the role of career counselors, and the dynamics of the job market. Their influence reaches far beyond mere suggestions, extending into the domains of education, professional development, and even contributing to the broader economic advancement of nations. As technology continues to advance at an unprecedented pace, these systems are positioned to assume a progressively vital role in shaping the career trajectories of individuals and, by extension, in sculpting the future workforce.

**1.4 Project Outline**

Chapter-1 Introduction

Chapter-2 Literature Survey

Chapter-3 System Study and Analysis

Chapter-4 System Design

Chapter-5 Technologies

Chapter-6 Implementation

Chapter-7 Testing

Chapter-8 Screenshots

Chapter-9 Conclusion and Future Work

**CHAPTER 2**

**LITERATURE SURVEY**

**2 LITERATURE SURVEY**

**Title: Personalized** **Career Path Recommender System Using Fuzzy Logic**

**Author: Manar Qamhieh**

This system generates customized career recommendations for students by taking into account two main input parameters: academic performance and personal profile. To put it differently, it leverages academic achievements and individual attributes to offer personalized guidance on suitable career paths for students.

**Title: Career Guidance and Employment Management System Using Web Based**

**Author: Kasem Seng and Akaram M. Zeki**

This system functions as a digital hub where a wide range of users, encompassing both companies and organizations, have the capability to publish job descriptions when they are in the process of recruiting new staff members**.**

**Title: Cloud-Based Career Guidance System Using Cloud**

**Author: Deep Priya and Monalisa Panigrahi**

The cloud-based career guidance system represents an inventive solution to tackle particular challenges. It establishes an intelligent career guidance platform on the web, harnessing cloud technology to provide answers for individuals looking for assistance in making career decisions. In simpler terms, it's an innovative web-based tool that uses cloud technology to offer career guidance for those seeking direction in their professional choices.

**Title: Career Guidance System Using Prototype Model**

**Author: Gursimran Singh Chhabra**

This initiative provides an all-encompassing report enabling users to evaluate their strong points and areas for improvement, aiding them in making well-informed decisions regarding their career selection.

**Title: Web-Based Career Guidance System Using Data Mining**

**Author:** **Rucha Ghatugade, Gauri Chormunge, Vyas Kumar, and Rupali Nikhare**

The central aim of this project is to assist students in gaining a deeper understanding of their strengths, personal attributes, and capabilities, thereby empowering them to make well-considered choices about their future careers.

**Title: Career Guidance: A Way of Life**

**Author: Artha Roy**

The modernization of career guidance presents a formidable endeavor, necessitating its integration into education at an early stage while continuously adapting to meet the ongoing needs of adults for lifelong success.

**CHAPTER 3**

**SYSTEM STUDY AND ANALYSIS**

**3 SYSTEM STUDY AND ANALYSIS**

**3.1 Problem Statement**

Many students face the challenge of making informed and well-suited career choices due to the lack of personalized and effective guidance. This results in mismatched career decisions, job dissatisfaction, and underutilization of their skills and potential. To address this issue, we aim to develop a student recommendation system for career guidance that can provide tailored career recommendations to help students make informed and fulfilling career choices. This system should take into account individual student attributes, such as their academic performance, interests, personality traits, and career aspirations, to offer personalized career guidance and improve overall career satisfaction among students.

**3.2 Existing System**

The current state of student recommendation systems in career guidance is characterized by a lack of personalization, adaptability, and accessibility. These systems often provide generic advice that does not cater to the unique needs and aspirations of individual students. Furthermore, the available technology and data-driven insights are not fully harnessed to deliver more effective and customized career guidance. As a result, there is a pressing demand for innovative solutions that can leverage advanced technologies like big data and artificial intelligence to bridge these gaps and offer tailored career recommendations. By doing so, these solutions have the potential to significantly enhance the career prospects and satisfaction of students, ensuring they make well-informed and fulfilling career choices.

**3.3 Limitations of the Existing System**

**Lack of Personalization:** Current systems often provide generic recommendations that don't consider individual students' unique skills, interests, and aspirations.

**Historical Data Reliance:** Many systems rely on outdated data, which may not accurately reflect the evolving job market and emerging career opportunities.

**Accessibility Challenges:** Some students, particularly in underserved areas, may have limited access to career guidance services, limiting their opportunities.

**3.4 Proposed System**

Career Path Assist is a user-friendly digital platform designed to help individuals find their ideal career path. By understanding your strengths, interests, Career Path Assist provides personalized guidance to make informed career decisions.

our proposed student recommendation system for career guidance aims to redress the inadequacies of current systems by offering a more individualized, adaptable, and inclusive approach, empowering students to make well-informed and personally fulfilling career decisions.

* 1. **Advantages of Proposed System**
* We are providing the career path to the students so that they can get a clear idea about their future.
* We are providing top colleges related to their career along with their college websites.
* Along this information students can get a clear idea to grab better opportunities to settle in their future.
* You can also check your knowledge by taking quiz’s which are available in our website.

**3.6 Functional requirements**

* The student will enter into the website, the user will able to see different options.
* User can select the option he/she want to know the information.
* Based on their qualification user will select the respective path, there user can find the information about competitive exams, eligibility criteria.
* We also provide career path for their better future.
* **3.7 Non-Functional Requirements**
* Easy to use
* Scalable
* Available
* Platform independent

**3.8 System Requirements**

**3.8.1 Software Requirements**

* Frontend Languages: HTML, JavaScript, CSS
* Framework: bootstrap
* Backend language: PHP
* Database: MYSQL

**3.8.2 Hardware Requirements**

* RAM: Minimum 4GB
* Hard Disk: Minimum 20GB
* Processor-Dual Core or Above

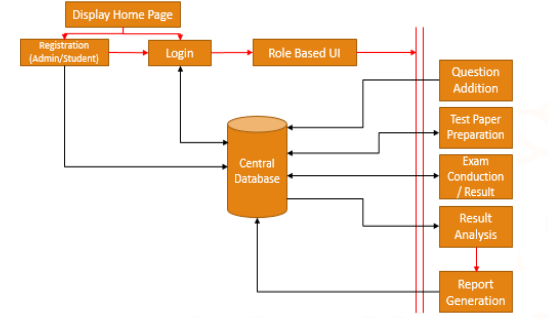
**CHAPTER 4**

**SYSTEM DESIGN**

**4 SYSTEM DESIGN**

**4.1 System Architecture**

A system architecture is the conceptual model that defines the structure, behaviour, and more views of the system.



**Figure 4.1** System Architecture

Career guidance architecture is a structured framework designed to help individuals make informed career choices. At its core, it revolves around the individual's self-assessment, including interests, skills, and personality traits. This information is used to guide them toward relevant resources, such as career databases and counseling professionals. Education and training are integrated to align academic choices with career goals, while real-world experiences, like internships and networking events, offer practical insights. Technology plays a vital role through online platforms and apps. Monitoring and evaluation ensure continuous improvement, while collaboration with educational institutions and industry partners, coupled with ethical considerations, guarantees inclusivity and ethical guidance. This architecture is instrumental in empowering individuals to navigate their career paths effectively.

**4.2 UML Diagrams**

A **UML diagram** shows the unified visual presentation of the UML (Unified Modeling Language) system intending to let developers or business owners understand, analyze, and undertake the structure and behaviors of their system. So far, the UML diagram has become one of the most common business process modeling tools, which is also highly significant to the development of object-oriented software. UML diagrams have many benefits for both software developers and business people, and the most key advantages are:

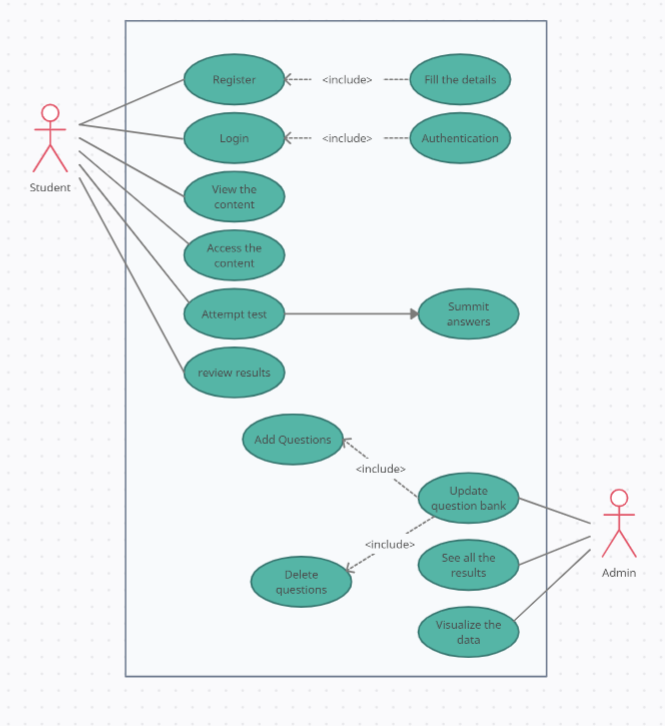
• **Problem-Solving** - Enterprises can improve their product quality and reduce cost especially for complex systems in large scale. Some other real-life problems including physical distribution or security can be solved;

• **Improve Productivity** - By using the UML diagram, everyone in the team is on the same page and lots of time are saved down the line;

• **Easy to Understand** - Since different roles are interested in different aspects of the system, the UML diagram offers non-professional developers, for example, stakeholders, designers, or business researchers, a clear and expressive presentation of requirements, functions and processes of their system.

**1.Use Case Diagram**

A use case diagram is the primary form of system/software requirements for a new software program underdeveloped. Use cases specify the expected behavior, and not the exact method of making it happen. Use cases once specified can be denoted both textual and visual representation. A key concept of use case modeling is that it helps us design a system from the end user's perspective. It is an effective technique for communicating system behavior in the user's terms by specifying all externally visible system behavior.



**Figure 4.2.1** Use Case Diagram

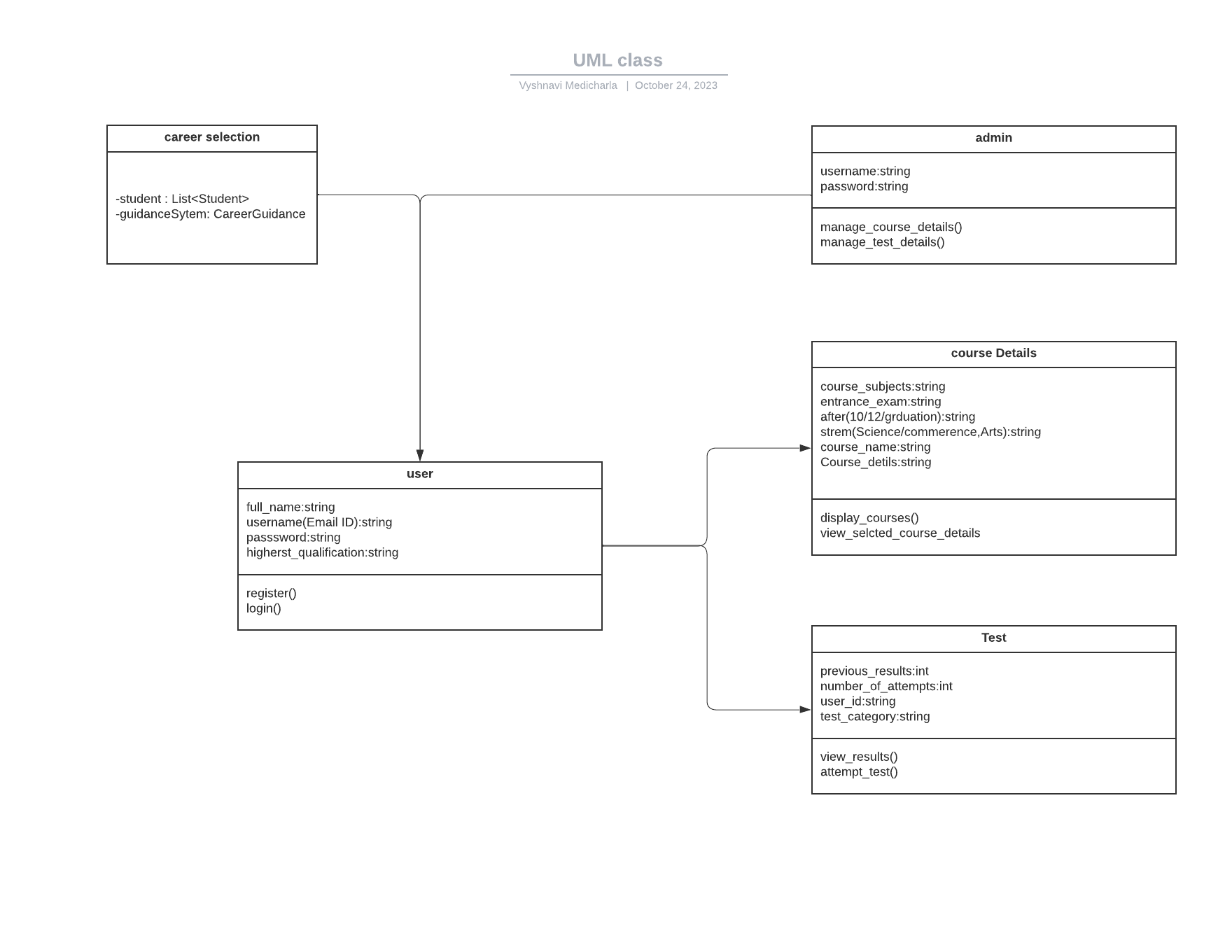
**Use cases:** A use case describes a sequence of actions that provide something of measurable value to an actor& it’s drawn as a horizontal ellipse.

**Actors:** An actor is a person, organization, or external system that plays a role in one or more interactions with the system.

**Association:** An association between actors and use cases are indicated by solid lines. An association exist when ever an actor is involved with an interaction described by a use case association are modeled as lines connecting use cases and actors to one another, with an optional arrowhead on one end.

**2.Class Diagram**

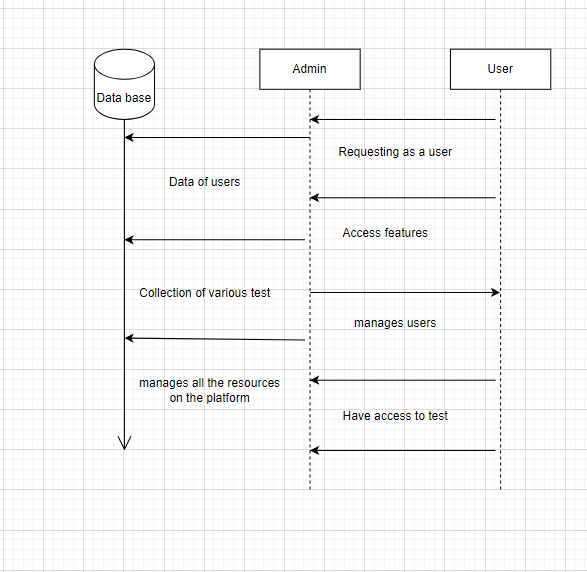
The class diagram is the building block of all object-oriented software systems. Users can depict the static structure and identify classes relationship of a system by checking systemclasses and attributes. Each class has three basic elements: the class name at the top, the class attributes in the middle, and the class behaviors at the bottom



**Figure 4.2.2** Class Diagram

**3.Sequence Diagram**

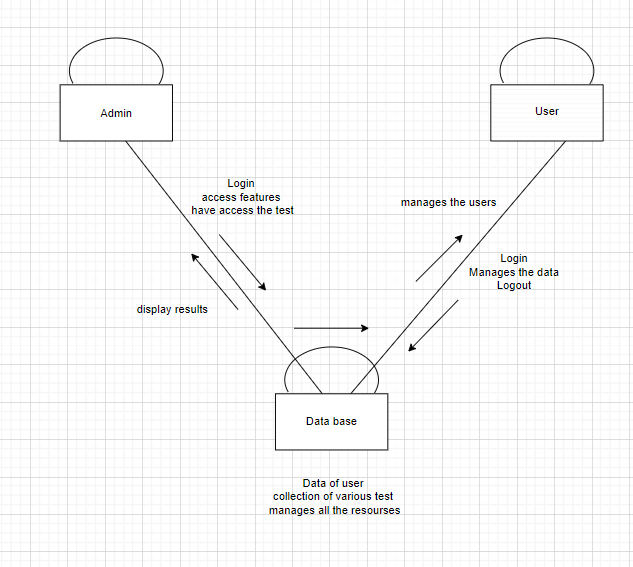
A Sequence diagram shows how objects interacts with each other in sequential order. The processes are represented vertically and interactions are shown as arrows

****

**Figure 4.2.3** Sequence Diagram

**4.Collaboration Diagram**

A collaboration diagram in UML represents interactions between objects or roles in a system, emphasizing collaboration and connections rather than the sequence of messages. It displays objects as participants and shows their associations, roles, and interactions. These diagrams are useful for visualizing complex system architectures and relationships.

****

**Figure 4.2.4** Collaboration Diagram

**CHAPTER 5**

**TECHNOLOGIES**

**5.TECHNOLOGIES**

**5.1 HTML**

**Introduction:**

HTML is a hypertext markup language for creating webpages. HTML is a combination of Hypertext and Markup language. Hypertext defines the link between web pages. A markup language is used to define the text document within the tag which defines the structure of web pages. This language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly. The language uses tags to define what manipulation has to be done on the text.

An element is usually consists of an opening tag(**<element\_name>**), a closing tag(**</element\_name**), which contains the elements name surrounded by angular brackets and the content is placed between them.

**<element\_name>content</element>**

**Features of HTML:**

* It is easy to learn and easy to use.
* It is platform independent.
* Images, videos and audio can be added to web page.
* It is a markup language.

**5.2 CSS**

**Introduction:**

Cascading Style Sheet is a style sheet language used for describing the presentation of a document written in a markup language such as HTML or XMl. CSS is designed to enable the separation presentation and content, including layout, colors and fonts. This separation can be improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple webpages to share formatting by specifying the relevant CSS in a separate .CSS file, which reduces the complexity and repetition in the structural content and enable the .CSS file to be cached to improve the page load speed between the pages that share the file and its formatting.

The name cascading comes from the specified priority scheme to determine which style rule applies if more than one rule matches a particular element. This cascading priority scheme is predictable.

**Features of CSS:**

* Styling: CSS is used to style and format web page elements.
* Selectors: It uses selectors to target HTML elements for styling.
* Cascading: Styles can be inherited and overridden.
* Separation of Concerns: It separates content (HTML) from presentation (CSS).
* External Stylesheets: CSS can be placed in separate files for reusability.
* Responsive Design: Allows for designs that adapt to different screen sizes.

**5.3 BOOTSTRAP**

Bootstrap is a highly popular front-end CSS framework renowned for its simplicity and efficiency in web development. It offers a comprehensive suite of pre-designed components, including responsive grids, navigation bars, buttons, and forms, streamlining the design process. Bootstrap’s responsiveness ensures seamless adaption to various screen sizes, making it ideal for creating mobile-friendly websites.

**Features of Bootstrap:**

* Responsive Grid System
* Pre-designed UI Components
* Extensive JavaScript Plugins
* Bootstrap Themes& Customization
* Active Community and Support

**5.4 JAVASCRIPT**

**Introduction:**

JavaScript is a versatile and widely-used programming language that adds interactivity and dynamic behaviour to websites. It’s often referred to as the “language of web” because it is primarily used to create interactive elements and enhance user experience in web applications.

You can include JavaScript code within your HTML document using **<script>** tags.

**Common use cases:**

* Handling user interactions, such as form validation or button clicks.
* Making asynchronous request to servers using technologies like AJAX or Fetch.
* Animating elements and creating visual effects.
* Manipulating the document object model to change the content and structure of webpage.

**Features of JavaScript:**

* Client-Side Scripting.
* High-Level Language.
* Multi-Paradigm.
* Wide Browser Support.
* Rich Ecosystem.

**5.5 PHP**

**Introduction:**

PHP, which stands for “Hypertext Preprocessor” is widely-used open-source server side scripting languagedesigned for web development. It is embedded within HTML and used to create dynamic webpages, process data, and interact with databases. PHP is a powerful and versatile language for building web applications.

A PHP script can be placed anywhere in the document

A PHP script starts with <?php and ends with ?>

<?php

//php code goes here

?>

**Common use cases:**

* Creating dynamic web pages with content generated on the server.
* Handling for submissions and user input data.
* Connecting to databases and performing CRUD operations.
* Session management and user authentication in web applications.

**Features of PHP:**

* Server-Side Scripting.
* Open source.
* Cross-Platform.
* Database Integration.
* Rich library support.

**5.6 DATABASE MySQL**

Structured Query Language (SQL) is a domain-specific programming language used for managing and querying relational databases. SQL allows users to define, manipulate, and interact with data stored in a relational database management system (RDBMS). It provides a standardized way to perform tasks such as creating, modifying, retrieving, and deleting data in a structured and organized manner.

**Types of Databases:**

**Relational Databases:** These databases use tables to store data and use structured relationships between tables. MySQL, PostgreSQL, Oracle, and Microsoft SQL Server are examples of relational database management systems (RDBMS).

**NoSQL Databases:** These databases are designed for unstructured or semi-structured data and can be more flexible. Examples include MongoDB, Cassandra, and Redis.

**Graph Databases:** These databases are used for managing data with complex relationships, often found in social networks and recommendation engines. Neo4j is a popular graph database.

**Key-Value Stores:** These databases store data as key-value pairs and are often used in caching or real-time analytics. Redis is a well-known key-value store.

**Document Stores:** These databases store data in documents, which can be in various formats like JSON or XML. MongoDB is a common document store.

**Components of a database system:**

**Data:** Data stored in tables or documents.

**Database Management System (DBMS):** Software that manages and interacts with the data.

**Database Engine:** The core component of DBMS is responsible for data storage, retrieval, and processing.

**SQL:** A query language used to interact with relational databases.

**Features of Database My SQL:**

* Open source
* Scalability
* High performance
* Reliability
* Security

**CHAPTER 6**

**IMPLEMENTATION**

**6 IMPLEMENTATION**

**6.1 Implementation steps:**

**Step 1**: Setup Your Development Environment

Install a local web server (e.g., XAMPP, WAMP, or MAMP) to run PHP and MySQL.

Set up a code editor or an Integrated Development Environment (IDE) for PHP development.

**Step** 2: Create a Database

Create a MySQL database to store outpass-related data

**Step 3:** Design the Database Schema

Define the structure of the database tables.

**Step 4:** Build the User Interface (UI)

Create web pages for user registration and login.

Develop web forms for students to submit their tests.

Create a dashboard for students to check their accuracy.

**Step 5:** Implement User Authentication

Create web pages for user registration and login.

Develop web forms for students to submit their tests.

Create a dashboard for students to track the status of their results

**Step 6:** Handle Students Requests

Create PHP scripts to handle the submission of their tests.

Store request data in the database.

Notification alerts when they submitted wrong information.

**Step 7:** Student Dashboard

Build a student dashboard that displays the status of their accuracy.

Implement the ability for students to check their score.

**Step 8:** Notification

Implement alert notifications for students when they enter wrong information

**6.2 Code:**

**Index.php**

<?php include 'header.php'; ?>

<head>

    <title>career navigator</title>

    <!-- Meta tag Keywords -->

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <meta charset="UTF-8" />

    <!-- //Meta tag Keywords -->

    <!-- Custom-Files -->

    <link rel="stylesheet" href="css/bootstrap.css">

    <!-- Bootstrap-Core-CSS -->

    <link rel="stylesheet" href="css/index.css" type="text/css" media="all" />

    <!-- Style-CSS -->

    <link href="css/font-awesome.min.css" rel="stylesheet">

    <!-- Font-Awesome-Icons-CSS -->

    <!-- //Custom-Files -->

    <!-- Web-Fonts -->

    <link href="//fonts.googleapis.com/css?family=Poppins:100,100i,200,200i,300,300i,400,400i,500,500i,600,600i,700,700i,800,800i,900,900i&amp;subset=devanagari,latin-ext"

     rel="stylesheet">

    <!-- //Web-Fonts -->

</head>

<!-- banner -->

<div class="banner\_w3lspvt position-relative">

            <div class="container">

                <div class="d-md-flex">

                    <div class="w3ls\_banner\_txt">

                        <h3 class="w3ls\_pvt-title">Career<br><span>Navigator</span></h3>

                        <p class="text-sty-banner" sytle=" text-align:justify;">A vital tool, expertly guiding them through the complex pathways of education and the job market, offering tailored advice, and skillfully merging their dreams and competencies to propel them toward the peak of their career aspirations.</p>

                        <a href="about.php" class="button-w3ls">Read More</a>

                    </div>

                    <div class="banner-img">

                        <img src="images/banner.png" alt="" class="img-fluid">

                    </div>

                </div>

            </div>

            <!-- animations effects -->

            <div class="icon-effects-w3l">

                <img src="images/shape1.png" alt="" class="img-fluid shape-wthree shape-w3-one">

                <img src="images/shape2.png" alt="" class="img-fluid shape-wthree shape-w3-two">

                <img src="images/shape3.png" alt="" class="img-fluid shape-wthree shape-w3-three">

                <img src="images/shape5.png" alt="" class="img-fluid shape-wthree shape-w3-four">

                <img src="images/shape4.png" alt="" class="img-fluid shape-wthree shape-w3-five">

                <img src="images/shape6.png" alt="" class="img-fluid shape-wthree shape-w3-six">

            </div>

        </div>

        <!-- //banner -->

    </div>

    <!-- //main banner -->

        <!-- what we do section -->

    <div class="what bg-li py-5" id="what">

        <div class="container py-xl-5 py-lg-3">

            <div class="row about-bottom-w3l text-center mt-4">

                <div class="col-lg-4 about-grid">

                <div class="about-grid-main">

                        <img src="images/img1.png" alt="" class="img-fluid">

                        <h4 class="my-4">Knowldge Point</h4>

                        <p>By using this you can check your knowledge based on particular topics by attempting quizes.</p>

                        <a href="exam.php" class="button-w3ls btn mt-sm-5 mt-4">Quizzing</a>

                    </div>

                </div>

                <div class="col-lg-4 about-grid my-lg-0 my-5">

                    <div class="about-grid-main">

                        <img src="images/img2.png" alt="" class="img-fluid">

                        <h4 class="my-4">Career Tool</h4>

                        <p>A resource to assist in planning and managing your professional journey.</p>

                        <a href="careertool.php" class="button-w3ls btn mt-sm-5 mt-4">Read More</a>

                    </div>

                </div>

                <div class="col-lg-4 about-grid">

                    <div class="about-grid-main">

                        <img src="images/img3.png" alt="" class="img-fluid">

                        <h4 class="my-4">Colleges  & Jobs</h4>

                        <p>A resource which helps to find best colleges and jobs in different fields based on your qualifications.</p>

                        <a href="colleges.php" class="button-w3ls btn mt-sm-5 mt-4">Explore</a>

                    </div>

                </div>

            </div>

        </div>

    </div>

    <!-- //what we do section -->

    <?php include 'footer.php'; ?>

**Signup.php**

<?php include 'header.php'; ?>

<?php

    include("database.php");

    session\_start();

    if(isset($\_POST['submit']))

    {

        $name = $\_POST['name'];

        $name = stripslashes($name);

        $name = addslashes($name);

        $mobile = $\_POST['mobile'];

        $mobile = stripslashes($mobile);

        $mobile = addslashes($mobile);

        $email = $\_POST['email'];

        $email = stripslashes($email);

        $email = addslashes($email);

        $password = $\_POST['password'];

        $password = stripslashes($password);

        $password = addslashes($password);

        $str="SELECT email from user WHERE email='$email'";

        $result=mysqli\_query($con,$str);

        $score=0;

        if((mysqli\_num\_rows($result))>0)

        {

            echo "<center><h3><script>alert('Sorry.. This email is already registered !!');</script></h3></center>";

            header("refresh:0;url=login.php");

        }

        else

        {

            $str1="insert into results set email='$email',score='$score'";

            $r=mysqli\_query($con,$str1);

            $str="insert into user set USERNAME='$name',MOBILE='$mobile',EMAIL='$email',PASSWORD='$password'";

            if((mysqli\_query($con,$str)))

            echo "<center><h3><script>alert('Congrats.. You have successfully registered !!');</script></h3></center>";

            header("refresh:0;url=login.php");

        }

    }

?>

<link rel="stylesheet" href="css/signup.css">

        <!-- banner -->

        <div class="banner\_w3lspvt-2">

            <ol class="breadcrumb">

                <li class="breadcrumb-item"><a href="index.php" class="font-weight-bold">Home</a></li>

                <li class="breadcrumb-item" aria-current="page">Signup</li>

            </ol>

        </div>

        <!-- //banner -->

    </div>

    <!-- //main banner -->

        <div class="container pb-xl-5 pb-lg-3">

            <div class="row">

                <div class="col-lg-6">

                    <img src="images/b2.png" alt="image" class="img-fluid" />

                </div>

                <div class="col-lg-6 mt-lg-0 mt-5">

                    <!-- contact form grid -->

                    <div class="contact-top1">

                        <form action="signup.php" method="post" class="contact-wthree-do" enctype="multipart/form-data">

                            <div class="form-group">

                                <div class="row">

                                    <div class="col-md-6">

                                        <label>

                                            User name:

                                        </label>

                                        <input class="form-control" type="text" placeholder="firstname" name="name" required="">

                                    </div>

                                </div>

                            </div>

                            <div class="form-group">

                                <div class="row">

                                    <div class="col-md-6">

                                        <label>

                                            Mobile

                                        </label>

                                        <input class="form-control" type="text" placeholder="xxxx xxxx xx" name="mobile" required="">

                                    </div>

                                    <div class="col-md-6 mt-md-0 mt-4">

                                        <label>

                                            Email

                                        </label>

                                        <input class="form-control" type="email" placeholder="example@mail.com" name="email" required="">

                                    </div>

                                </div>

                            </div>

                            <div class="form-group">

                                <div class="row">

                                    <div class="col-md-6">

                                        <label>

                                            Password

                                        </label>

                                        <input type="password" name="password" placeholder="password" required="" class="form-control">

                                    </div>

                                    <div class="col-md-6 mt-md-0 mt-4">

                                        <label>

                                            confirm password

                                        </label>

                                        <input class="form-control" type="password" placeholder="password" name="password" required="">

                                    </div>

                                </div>

                            </div>

                            <div class="row mt-3">

                                <div class="col-md-12">

                                    <button type="submit" class="btn btn-cont-w3 btn-block mt-4" name="submit">Signup</button>

                                </div>

                            </div>

                        </form>

                    </div>

                    <!-- //contact form grid ends here -->

                </div>

            </div>

        </div>

    </div>

    <?php include 'footer.php'?>

**Header.php**

<!DOCTYPE html>

<html lang="zxx">

<head>

    <title>career navigator</title>

    <!-- Meta tag Keywords -->

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <meta charset="UTF-8" />

    <script>

        addEventListener("load", function () {

            setTimeout(hideURLbar, 0);

        }, false);

        function hideURLbar() {

            window.scrollTo(0, 1);

        }

    </script>

    <!-- //Meta tag Keywords -->

    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.2/css/all.min.css" integrity="sha512-z3gLpd7yknf1YoNbCzqRKc4qyor8gaKU1qmn+CShxbuBusANI9QpRohGBreCFkKxLhei6S9CQXFEbbKuqLg0DA==" crossorigin="anonymous" referrerpolicy="no-referrer" />

    <!-- Custom-Files -->

    <link rel="stylesheet" href="css/bootstrap.css">

    <!-- Bootstrap-Core-CSS -->

    <link rel="stylesheet" href="css/header.css" type="text/css" media="all" />

    <!-- Style-CSS -->

    <link href="css/font-awesome.min.css" rel="stylesheet">

    <!-- Font-Awesome-Icons-CSS -->

    <!-- //Custom-Files -->

    <!-- Web-Fonts -->

    <link href="//fonts.googleapis.com/css?family=Poppins:100,100i,200,200i,300,300i,400,400i,500,500i,600,600i,700,700i,800,800i,900,900i&amp;subset=devanagari,latin-ext"

     rel="stylesheet">

    <!-- //Web-Fonts -->

</head>

<body>

<div class="main-top" id="home">

        <!-- header -->

        <header>

            <div class="container-fluid">

                <div class="header d-lg-flex justify-content-between align-items-center py-3 px-sm-3">

                    <!-- logo -->

                    <div id="logo">

                        <h1><a href="index.php"><i class="fa fa-graduation-cap" aria-hidden="true"></i>Career navigator</a></h1>

                    </div>

                    <!-- //logo -->

                    <!-- nav -->

                    <div class="nav\_w3ls">

                        <nav>

                            <label for="drop" class="toggle">Menu</label>

                            <input type="checkbox" id="drop" />

                            <ul class="menu">

                                <li><a href="index.php" class="active">Home</a></li>

                                <li><a href="about.php">About Us</a></li>

                                <li><a href="login.php">Login</a></li>

                                <li><a href="dashboard.php">Dashboard</a></li>

                                <li>

                                <label for="drop-2" class="toggle toogle-2">Dropdown <span class="fa fa-angle-down" aria-hidden="true"></span>

                                    </label>

                                    <a href="#">Dropdown <span class="fa fa-angle-down" aria-hidden="true"></span></a>

                                    <input type="checkbox" id="drop-2" />

                                    <ul>

                                        <li><a href="services.php" class="drop-text">Services</a></li>

                                        <li><a href="faq.php" class="drop-text">Faq's</a></li>

                                        <li><a href="about.php" class="drop-text">Why Choose Us?</a></li>

                                        <li><a href="ourteam.php" class="drop-text">Our Team</a></li>

                                        <li><a href="logout.php?q=login.php" class="drop-text">Log Out</a></li>

                                    </ul>

                                </li>

                                <li><a href="contactus.php">Contact Us</a></li>

                            </ul>

                        </nav>

            </div>

        </header>

        <!-- //header -->

**Footer.php**

<link rel="stylesheet" href="css/footer.css">

<footer>

<div class="copy-bottom bg-li py-4 border-top">

        <div class="container-fluid">

            <div class="d-md-flex px-md-3 position-relative text-center">

                <!-- footer social icons -->

                <div class="social-icons-footer mb-md-0 mb-3">

                    <ul class="list-unstyled">

                        <li>

                            <a href="#">

                                <span class="fa fa-facebook"></span>

                            </a>

                        </li>

                        <li>

                            <a href="#">

                                <span class="fa fa-twitter"></span>

                            </a>

                        </li>

                        <li>

                            <a href="#">

                                <span class="fa fa-google-plus"></span>

                            </a>

                        </li>

                        <li>

                            <a href="#">

                                <span class="fa fa-instagram"></span>

                            </a>

                        </li>

                    </ul>

                </div>

                <!-- //footer social icons -->

                <!-- copyright -->

                <div class="copy\_right mx-md-auto mb-md-0 mb-3">

                    <p class="text-bl let">© 2023 Career navigator. All rights reserved.

                    </p>

                </div>

                <!-- //copyright -->

                <!-- move top icon -->

                <a href="#home" class="move-top text-center">

                    <span class="fa fa-level-up" aria-hidden="true"></span>

                </a>

                <!-- //move top icon -->

            </div>

        </div>

    </div>

    <!-- //copyright bottom -->

</footer>

</body>

</html>

**Exam.php**

<?php include 'header.php'; ?>

<?php

    include\_once 'database.php';

    session\_start();

    if(!(isset($\_SESSION['email'])))

    {

        header("location:login.php");

    }

    else

    {

        $name = $\_SESSION['name'];

        $email = $\_SESSION['email'];

        include\_once 'database.php';

    }

?>

<head>

<link rel="stylesheet" href="css/exam.css">

</head>

        <!-- banner -->

        <div class="banner\_w3lspvt-2">

            <ol class="breadcrumb">

                <li class="breadcrumb-item"><a href="index.php" class="font-weight-bold">Home</a></li>

                <li class="breadcrumb-item" aria-current="page">Exam</li>

            </ol>

        </div>

        <!-- //banner -->

    </div>

    <!-- //main banner -->

      <div class="main">

          <br>

          <br>

          <div class="container">

            <div class="row  justify-content-center">

         <form method="post" action="exam.php">

        <label for="subject">Select a Subject:</label>

        <select name="subject" id="subject">

        <?php

                    // Connect to the database and fetch subject names

                    $conn = new mysqli("localhost", "root", "", "career");

                    if ($conn->connect\_error) {

                        die("Connection failed: " . $conn->connect\_error);

                    }

                    $result = $conn->query("SELECT \* FROM subjects");

                    while ($row = $result->fetch\_assoc()) {

                        $subject\_id = $row['subject\_id'];

                        $subject\_name = $row['subject\_name'];

                        // Check if the subject has already been selected

                        $selected = '';

                        if ($\_POST["subject"] == $subject\_id) {

                            $selected = 'disabled';

                        }

                        echo "<option value='" . $subject\_id . "' $selected>" . $subject\_name . "</option>";

                    }

                    $conn->close();

                    ?>

        </select>

        <input type="submit" value="Start Exam" class="btn">

    </form>

    <?php

    if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

        // Get the selected subject

        $selectedSubject = $\_POST["subject"];

        // Redirect to a page that displays questions for the selected subject

        header("Location: exam\_questions.php?subject=" . $selectedSubject);

    }

    ?>

    <br><br><br><br><br><br><br><br><br><br><br><br><br><br>

    </div>

  </div>

</div>

<?php include 'footer.php';?>

**CHAPTER 7**

**TESTING**

**7.TESTING**

**7.1 Introduction of Testing**

The purpose of testing is to discover errors. Testing is the process of discovering every conceivable fault or weakness in a work product. It provides a way to check the functionality of components, sub-assemblies, assemblies and or a finished product it is the process of exercising software with the intent of ensuring that the software system meets it’s requirements and user expectations and does not fail in an unacceptable manner. There are different types of tests. Each test type addresses a specific testing requirement.

**7.2 Testing Objective**

* All field entries must be filled properly.
* Pages must be activated in every level.
* The messages and responses must not be delayed.

**7.3 Testing Strategies**

**7.3.1 Unit Testing**

Unit testing involves in the testing of test cases that validate the internal program logic is functioning properly, and that program inputs produce valid outputs. All decision branches and internal code flow should be validated. It is the testing of individual software units of the application. It is done after the completion of an individual unit before integration. This is a structural testing, that relies on knowledge of its construction and is invasive. Unit tests perform basic tests at component level and test a specific business purpose, application and system configuration. Unit test ensures that unique path of a business purpose performs accurately to the documented specification and contains clearly defined inputs and expected results.

**7.3.2 Integration Testing**

Integration tests are designed to test integrated software components to determine if they run as one program. Testing is event driven and is more concerned with the basic outcome of screens or fields. Integration tests demonstrate that although the components were individually satisfaction, as shown by successfully unit testing, the combination of components is correct and consistent.

**7.3.3 Functional Testing**

Functional tests provide systematic demonstrations that functions tested are available as specified by the business and technical requirements, system documentation, and user manuals. Functional testing is centred on the following items:

* Valid Input: identified classes of valid input must be accepted.
* Invalid Input: identified classes of invalid input must be rejected.
* Functions: identified functions must be exercised.
* Output: identified classes of application outputs must be exercised.

**7.3.4 System Testing**

System testing ensures that the entire integrated software system meets requirements. It tests a configuration to ensure known and predictable results. An example of system testing is the configuration-oriented system integration test. System testing is based on process descriptions and flows, emphasizing pre-driven process links and integration points.

**White Box Testing**

White Box Testing is a testing in which in which the software tester has knowledge of the inner workings, structure and language of the software, or at least its purpose. It is used to test areas that cannot be reached from a black box level.

**Black Box Testing**

Black Box Testing is testing the software without any knowledge of the inner workings, structure or language of the module being tested. Black box tests, as most other kinds of tests, must be written from a definitive source document, such as specification or requirements document. The test provides inputs and responds to outputs without considering how the software works.

**7.3.5 Acceptance Testing**

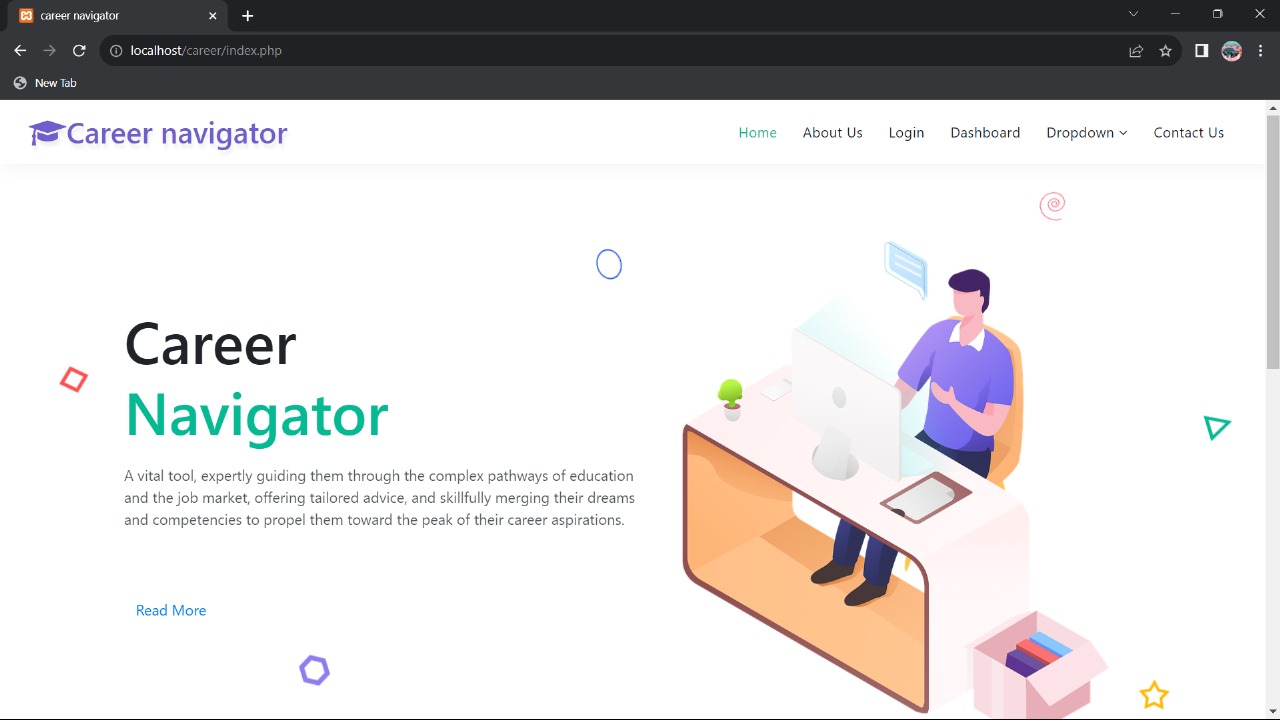
Acceptance testing, a testing technique performed to determine whether or not the software system has met the requirement specifications. The main purpose of this test is to evaluate the system's compliance with the business requirements and verify if it is has met the required criteria for delivery to end users.

**CHAPTER 8**

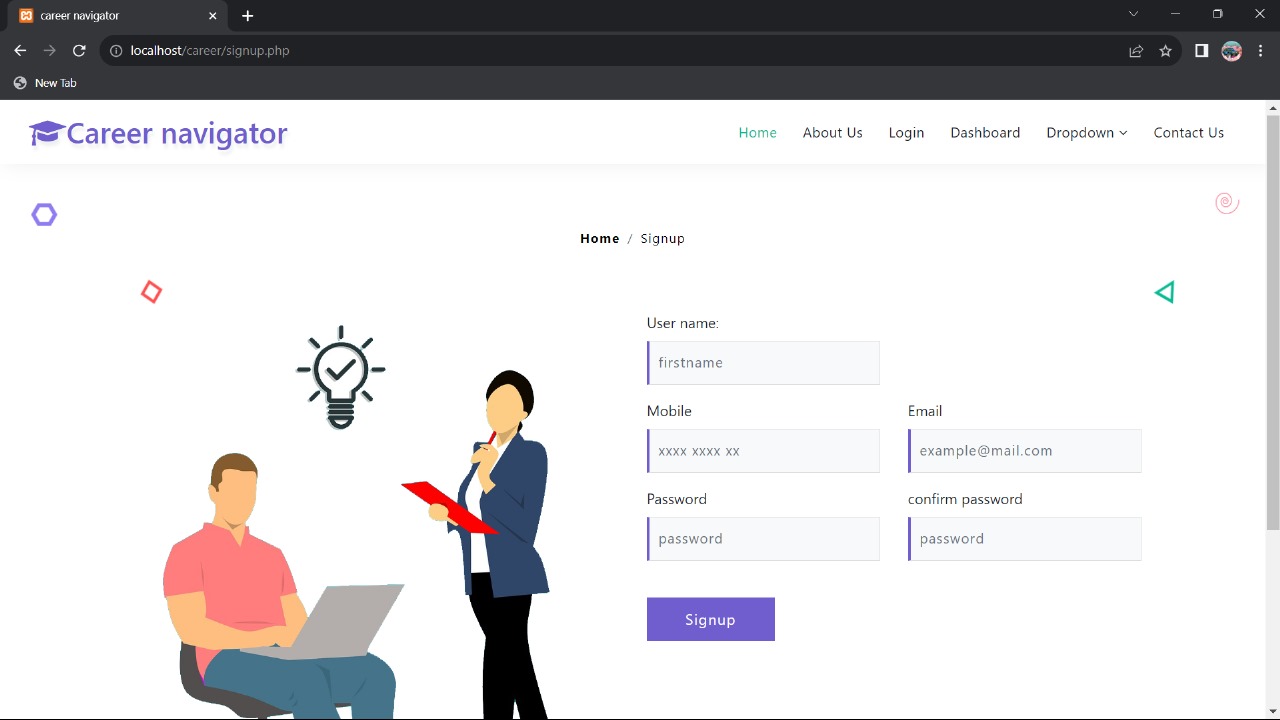
**SCREENSHOTS**

**8.SCREENSHOTS**

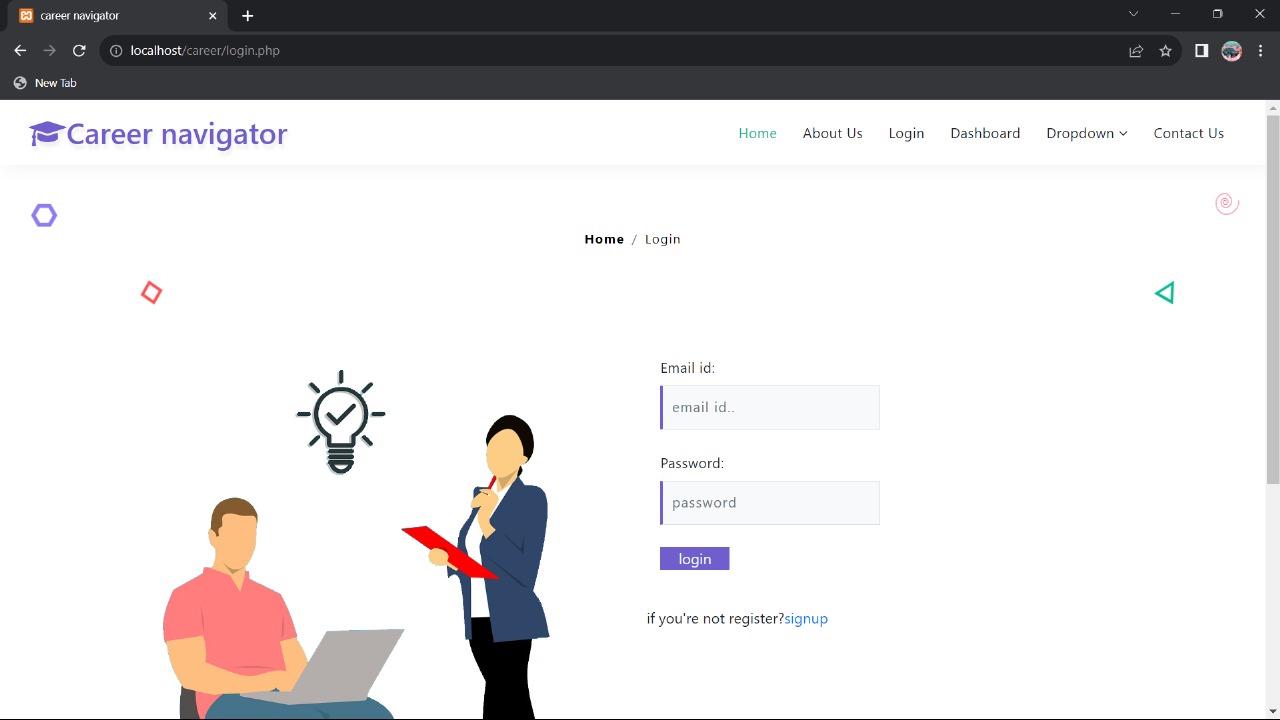
**Home Page**



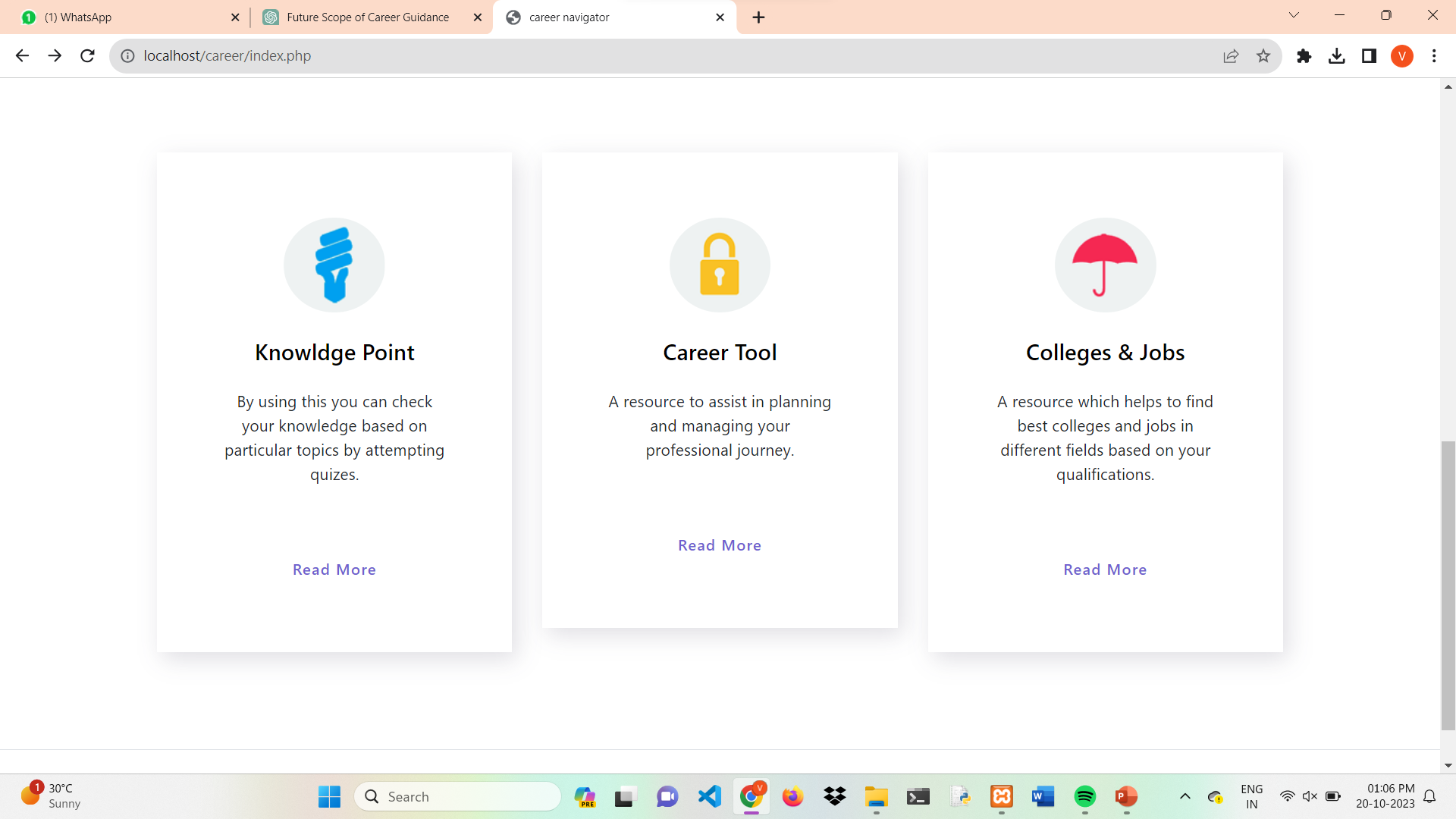
**Sign up page**

****

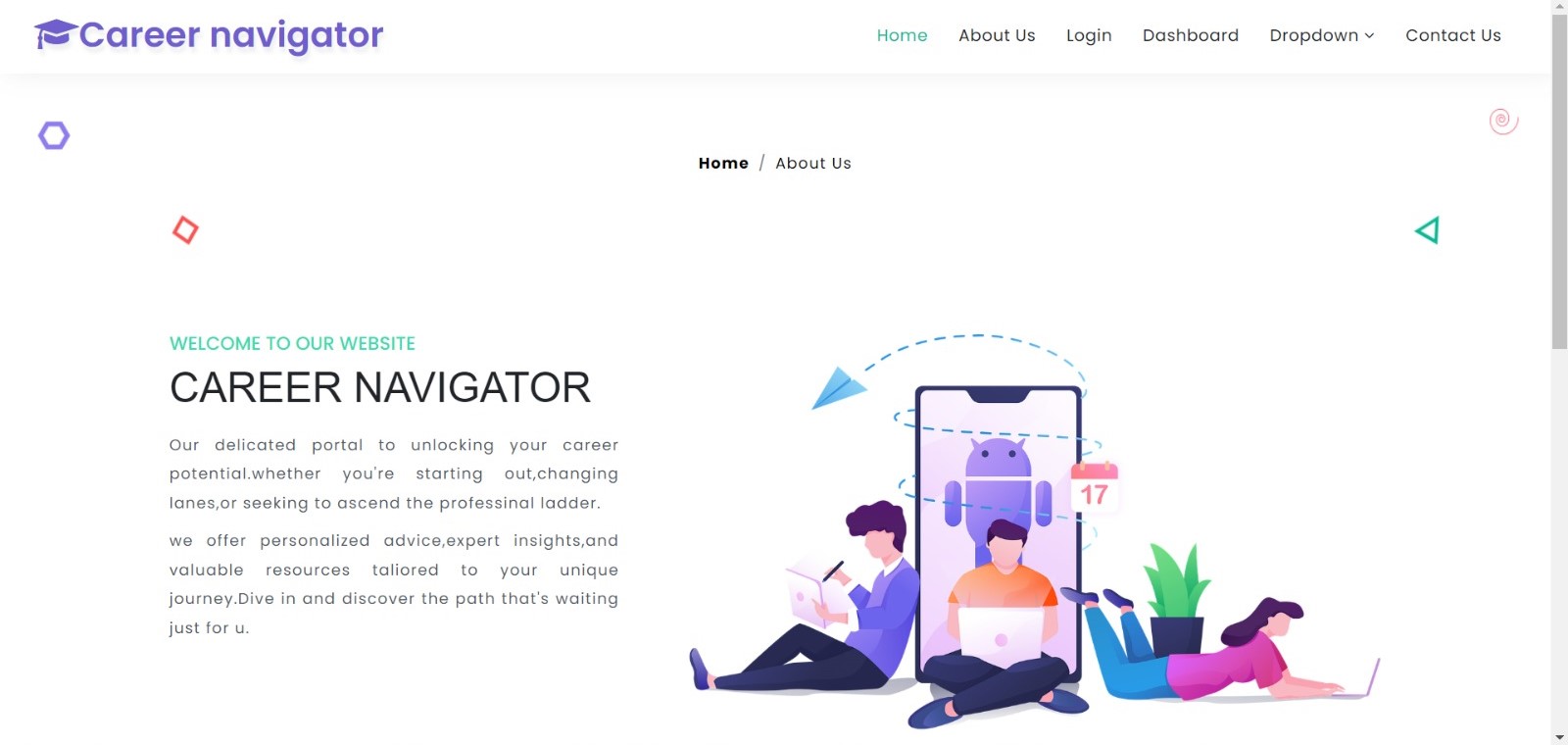
**Login page**

****

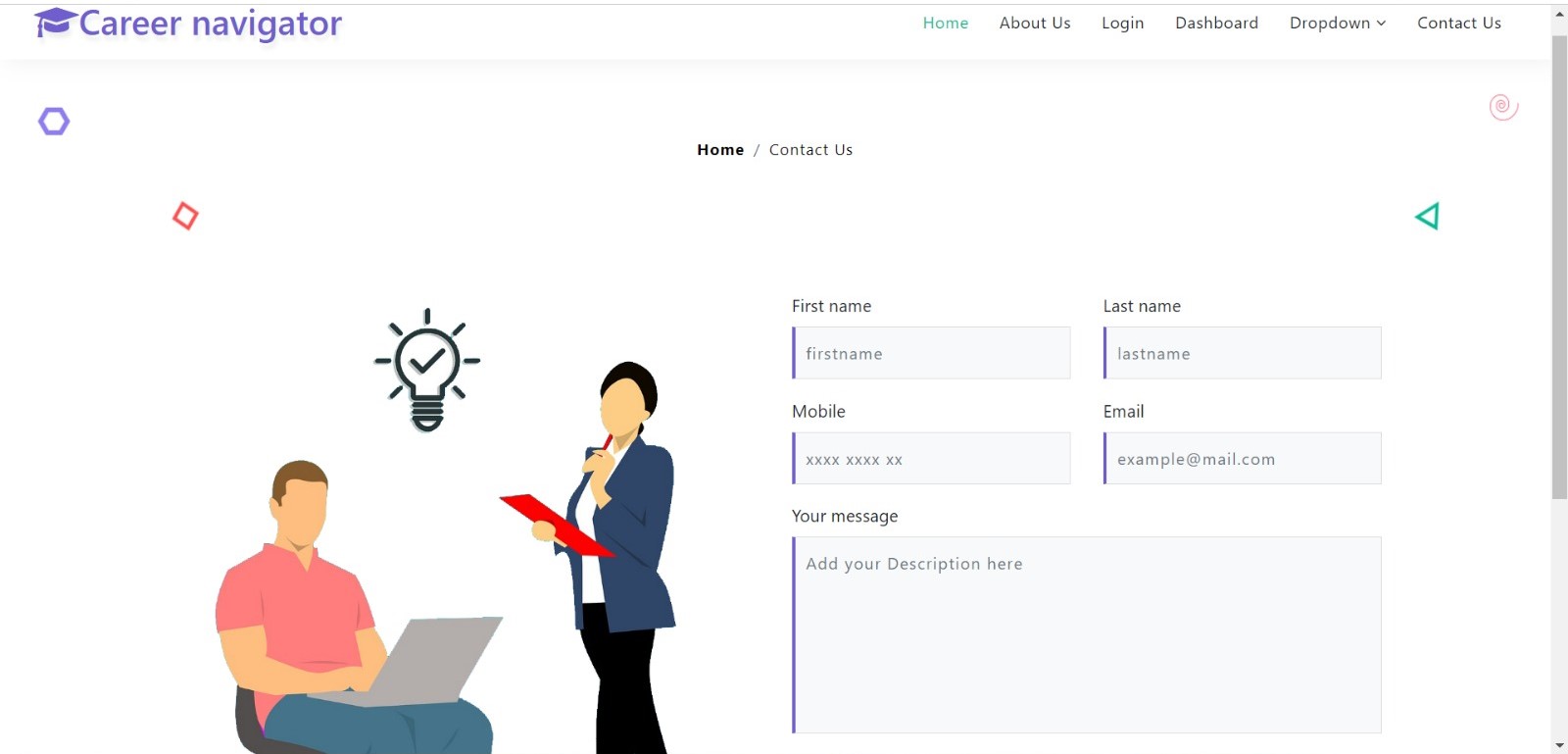
**Service page**



**About Us page**

****

**Contact Us page**

****

**CHAPTER 9**

**CONCLUSION AND FUTURE WORK**

**9.CONCLUSION AND FUTURE WORK**

**9.1 Conclusion**

In conclusion, our application offers a vital solution to the complex task of choosing the right career. By assessing student’s skills, interests, abilities, and aptitude, we provide tailored career guidance after 10th and 12th grade. Utilizing visualization techniques, our goal is to empower students to make informed, engaging, and successful career choices to align their skills and passions with their career choices, we aim to contribute to a brighter and more fulfilling future for the next generation.

**9.2 Future Work**

* **Increasing Demand for Career Guidance**: As the world becomes more complex and competitive, there is a growing need for career guidance. Students and their parents are often seeking ways to make informed decisions about education and future careers. The demand for tools like the one described in the paragraph is likely to increase.
* **Personalization**: The application mentioned seems to focus on providing personalized guidance based on individual aptitude test results. This is a trend in education and technology, as personalization leads to better outcomes. In the future, this trend will likely continue, with more advanced algorithms and data analysis to provide even more accurate recommendations.
* **Data-Driven Insights**: The use of data and analytics in career guidance is likely to expand. This can provide insights into emerging career trends, which can be useful for students, parents, and educators.
* **Integration with education**: Collabrating with educational institutions to offer students a seamless transition from education to work place.

**CHAPTER 10**

**REFERENCES**

**10.REFERENCES**

[1] **Manar Qamhieh** – “Personalized Career Path Recommender System for engineering students” in 2020.

[2] **Kasem Seng and Akaram M. Zeki** – “the Career Guidance and Employment Management System (CGEMS)” in 2019.

[3] **Deep Priya and Monalisa Panigrahi** – “cloud-based career guidance system” in 2020.

[4] **Gursimran Singh Chhabra** – “Career Guidance System” in 2018.

[5] **Rucha Ghatugade, Gauri Chormunge, Vyas Kumar, and Rupali Nikhare– “**Web-Based Career Guidance System” in 2021.

[6] **Partha Roy- “**a Career Guidance: A Way of Life “in 2020.