

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI-590018



A DBMS Mini Project Report

on

"Placement Experience Database "

*Submitted in partial fulfillment of the requirements for the V semester
and award of the degree of Bachelor of Engineering in Computer Science
and Engineering of Visvesvaraya Technological University, Belagavi*

Submitted by:

Chinmay B 1RN20CS037

H A Nag Ashrit 1RN20CS048

Under the Guidance of:

Mr. Karanam Sunil Kumar

Assistant Professor

Dept. of CSE



Department of Computer Science and Engineering

(Accredited by NBA upto 30.06.2025)

RNS Institute of Technology

Channasandra, Dr.Vishnuvardhan Road, Bengaluru-560 098

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RNS Institute of Technology

Channasandra, Dr. Vishnuvardhan Road, Bengaluru-560098

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

(Accredited by NBA upto 30.06.2025)



CERTIFICATE

Certified that the mini project work entitled **“Placement Experience Database”** has been successfully carried out by **”Chinmay B** bearing USN **”1RN20CS037”** and **“H A Nag Ashrit** bearing USN **”1RN20CS048”**, bonafide students of **”RNS Institute of Technology”** in partial fulfillment of the requirements for the 5th semester of **”Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University”**, Belagavi, during academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the DBMS laboratory requirements of 5th semester BE, CSE.

Signature of the Guide
Mr. Karanam Sunil Kumar
Assistant Professor
Dept. of CSE

Signature of the HoD
Dr. Kiran
Professor and HOD
Dept. of CSE

Signature of the Principal
Dr. M K Venkatesha
Principal

External Viva:

Name of the Examiners

- 1.
- 2.

Signature with Date

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Abstract

This Project deals with Placement Experience Database System. This system is developed for placement related activities such as displaying the companies in which the student has been recruited. In today's modern world we are seeing that everything is going digital. So we developed a website where the students can login or signup in our website to view their current status like for which all the companies the student has applied for, what are the suggestions given by the company to the student, does the student need to submit the project or not, how much offers does the student currently have etc.

Thus by visiting our website the student can keep a track of the companies in which he has applied and can view their status of a particular company.

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Chapter 1

Introduction

1.1 DATABASE TECHNOLOGIES

The essential feature of database technology is that it provides an internal representation (model) of the external world of interest. Examples are, the representation of a particular date/time/flight/aircraft in an airline reservation or of the item code/item description/quantity on hand/reorder level/reorder quantity in a stock control system. The technology involved is concerned primarily with maintaining the internal representation consistent with external reality; this involves the results of extensive RD over the past 30 years in areas such as user requirements analysis, data modelling, process modelling, data integrity, concurrency, transactions, file organisation, indexing, rollback and recovery, persistent programming, object-orientation, logic programming, deductive database systems, active database systems... and in all these (and other) areas there remains much more to be done. The essential point is that database technology is a CORE TECHNOLOGY which has links to:

- Information management / processing
- Data analysis / statistics
- Data visualization / presentation
- Multimedia and hypermedia
- Office and document systems
- Business processes, workflow, CSCW (computer-supported cooperative work)

Relational DBMS is the modern base technology for many business applications. It offers flexibility and easy-to-use tools at the expense of ultimate performance. More recently relational systems

have started extending their facilities in directions like information retrieval, object orientation and deductive/active systems which lead to the so-called 'Extended Relational Systems'.

Information Retrieval Systems began with handling library catalogues and then extended to full free-text by utilizing inverted index technology with a lexicon or thesaurus. Modern systems utilize some KBS (knowledge-based systems) techniques to improve the retrieval. Object-Oriented DBMS started for engineering applications in which objects are complex, have versions and need to be treated as a complete entity. OODBMSs share many of the OOPL features such as identity, inheritance, late binding, overloading and overriding. OODBMSs have found favours in engineering and office systems but haven't been successful yet in traditional application areas. Deductive / Active DBMS has evolved over the last 20 years and combines logic programming technology with database technology. This allows the database itself to react to the external events and also to maintain its integrity dynamically with respect to the real world.

1.2 CHARACTERISTICS OF DATABASE APPROACH

Traditional form included organising the data in file format. DBMS was a new concept then, and all kinds of research was done to make it overcome the deficiencies in traditional style of data management. A modern DBMS has the following characteristics

- **Real-world entity** A modern DBMS is more realistic and uses real-world entities to design its architecture. It uses behaviour and attribute too. For example, a school database may use students as an entity and their age as an attribute.
- **Relation-based tables** DBMS allows entities and relations to form tables. A user can understand the architecture of a database by just looking at the table names.
- **Isolation of data and application** A database system is entirely different than its data. A database is an active entity, whereas data is said to be passive, on which the database works and organizes. DBMS also stores metadata, which is data about data, to ease its own process.
- **Less redundancy** DBMS follows the rules of normalization, which splits a relation when any of its attributes has redundancy in its values. Normalization is a mathematically rich and scientific process that will reduce the data redundancy
- **Consistency** Consistency is a state where every relation in a database remains consistent. There exists methods and techniques, that can detect an attempt of leaving database in an inconsistent

state. DBMS can provide greater consistency as compared to earlier forms of data storing applications like file-processing systems.

- **Query Language** DBMS is equipped with query language, which makes it more efficient to retrieve and manipulate data. A user can apply as many and the filtering options as required to retrieve a set of data. Traditionally it was not possible where file-processing system was used
- **ACID Properties** DBMS follows the concepts of Atomicity, Consistency, Isolation, and Durability (normally shortened as ACID). These concepts are applied on transactions, which manipulate data in a database. ACID properties help the database to stay healthy in multi-transactional environments and also in case of failure.
- **Security** Features like multiple views offer security to certain extent when users are unable to access the data of other users and departments. DBMS offers methods to impose constraints while entering data into the database and retrieving the same at a later stage. DBMS offers many different levels of security features, which enables multiple users to have different views with different features. For example, a user in the Sales department cannot see the data that belongs to the Purchase department. It can also be helpful in deciding how much data of the Sales department should be displayed to the user. Since a DBMS is not saved on the disk as traditional file systems, it is very hard for miscreants to break the code.
- **Multiuser and Concurrent Access** DBMS supports multi-user environment and allows them to access and manipulate data in parallel. Though there are restrictions on transactions when users attempt to handle the same data item, but users are always unaware of them.

1.3 APPLICATIONS OF DBMS

Applications of Database Management Systems :

- **Telecom:** There is a database to keeps track of the information regarding the calls made, network usage, customer details etc. Without the database system it is hard to maintain such huge amounts of data which gets updated every millisecond.
- **Industry:** Whether it is a manufacturing unit, a warehouse or a distribution centre, each one needs a database to keep the records of the ins and outs. For example, a distribution centre should keep a track of the product units that were supplied to the centre as well as the products that got delivered from the distribution centre on each day; this is where DBMS comes into picture

- **Banking System:** For storing information regarding a customer, keeping a track of his/her day to day credit and debit transactions, generating bank statements etc is done with through Database management systems.
- **Education sector:** Database systems are frequently used in schools and colleges to store and retrieve the data regarding the student , staff details, course details, exam details, payroll data, attendance details, fees details etc. There is lots of inter-related data that needs to be stored and retrieved in an efficient manner.
- **Online shopping:** You must be aware of the online shopping websites such as Amazon, Flip kart etc. These sites store the product information, your addresses and preferences, credit details and provide you the relevant list of products based on your query. All this involves a Database management system.

1.4 PROBLEM DESCRIPTION/STATEMENT

Placement Experience Database System deals with the information of the candidates who have been recruited by the corporate companies. It involves following functionalities:

- It consists of Student, Companies and Info.
- Each student can Login or Sign up according to their requirement
- He/She can view their status in each of the following companies.

Chapter 2

Requirements Analysis

2.1 Hardware Requirements

The Hardware requirements are very minimal and the program can be run on most of the machines.

Processor : i5 processor Processor Speed : 1.2 GHz RAM : 1 GB Storage Space : 40 GB Monitor

Resolution : 1024*768 or 1336*768 or 1280*1024

2.2 Software Requirements

1. Operating System used: Windows 10 2. Technologies used: HTML, CSS, PHP, Bootstrap 3. XAMPP Server: MySQL, PhpMyAdmin 4. IDE used: Visual Studio Code 5. Browser that supports HTML

2.3 Functional Requirements

2.3.1 Major Entities

2.3.2 End User Requirements

2.3.3 HTML

Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript it forms a triad of cornerstone technologies for the World Wide Web. Web browsers receive HTML documents from a web server or from a local storage and render them to multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document. HTML

elements are the building blocks of HTML pages. With HTML constructs, images and other objects like interactive forms can be embedded into the rendered page. It provides a way to create structured documents by denoting structural semantics for the text like headings, paragraphs, lists, links, quotes and other items. HTML elements are delimited by tags that are written within angle brackets. Tags such as `img` tag and `input` tag introduce content into the page directly. Other tags such as `<p>...</p>` surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags, but use them to interpret the content of the page. HTML can also embed programs written in a scripting language such as JavaScript which affect the behaviour and content of web pages. Inclusion of CSS defines the look and layout of content.

2.3.4 CSS

Cascading Style Sheets (CSS) is a style sheet language which is used for describing the presentation of a document written in markup language. Although most often its used to set the visual style of web pages and user interfaces written in HTML and XHTML, the language can be applied to any XML document, including plain XML, SVG and XUL, and is also applicable to rendering in speech, or on other media. Along with HTML and JavaScript, CSS is a cornerstone technology used by most websites to create visually engaging webpages, user interfaces for web applications, and user interfaces for many mobile applications. CSS is designed primarily to enable the separation of presentation and content, including aspects such as the layout, colours, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple HTML pages to share the formatting by specifying the relevant CSS in a separate .css file, and reduce complexity and repetition in the structural content.

2.3.5 PHP

PHP is a server-side scripting language designed primarily for web development but is also used as a general-purpose programming language. Originally created by Rasmus Lerdorf in 1994, the PHP reference implementation is now produced by The PHP Development Team. PHP originally stood for Personal Home Page, but it now stands for the recursive acronym PHP: Hypertext Pre-processor. PHP code can be embedded into HTML or HTML5 markup, or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a Common Gateway Interface (CGI) executable. The web server software combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the

generated web page. PHP code can also be executed with a command-line interface (CLI) and can be used to implement standalone graphical applications. The standard PHP interpreter, powered by the Zend Engine, is a free software released under the PHP License. PHP has been widely ported and can be deployed on most web servers, on almost every operating system and platform, free of charge. The PHP language evolved without a written formal specification or standard until 2014, leaving the canonical PHP interpreter as a de facto standard. Since 2014 work has gone into creating a formal PHP specification. PHP development began in 1995 when Rasmus Lerdorf wrote several Common Gateway Interface (CGI) programs in C, which he used in order to maintain Restaurant Management System his personal homepage. He extended them to work with web forms and to communicate with databases, and called this implementation "Personal Home Page/Forms Interpreter" or PHP/FI. PHP/FI could help to build simple, dynamic web applications. To accelerate bug reporting and to improve the code, Lerdorf initially announced the release of PHP/FI as "Personal Home Page Tools (PHP Tools) version 1.0" on the Usenet discussion group on June 8, 1995. This release already had the basic functionality that PHP has as of 2013. This included Perl-like variables, form handling, and the ability to embed HTML. The syntax resembled that of Perl but was simpler, more limited and less consistent.

2.3.6 MySQL

MySQL is a Relational Database Management System (RDBMS). MySQL server can manage many databases at the same time. In fact, many people might have different databases managed by a single MySQL server. Each database consists of a structure to hold onto the data itself. A database can exist without data, only a structure, be totally empty, twiddling its thumbs and waiting for data to be stored in it. Data in a database is stored in one or more tables. You must create the database and the tables before you can add any data to the database. First you create the empty database. Then you add empty tables to the database. Database tables are organized in rows and columns. Each row represents an entity in the database, such as a customer, a book, or a project. Each column contains an item of information about the entity, such as a customer name, a book name, or a project start date. The place where a particular row and column intersect, the individual cell of the table, is called a field. Tables in databases can be related. Often a row in one table is related to several rows in another table. For instance, you might have a database containing data about books you own. You would have a book table and an author table. One row in the author table might contain information about the author of several books in the book table. When tables are related, you include a column in one table to hold data that matches data in the column of another table. MySQL, the most popular Open Source

SQL database management system, is developed, distributed, and supported by MySQL AB. MySQL AB is a commercial company, founded by the MySQL developers. It is a second generation Open Source company that unites Open Restaurant Management System Source values and methodology with a successful business model.

- MySQL is a database management system. A database is a structured collection of data. It can be anything from a simple shopping list to a picture gallery or the vast amount of information in a corporate network. To add, access, and process data stored in a computer database, you need a database management system such as MySQL Server. Since computers are very good at handling large amounts of data, database management systems play a central role in computing, as standalone utilities, or as parts of other applications.
- MySQL is a relational database management system. A relational database stores data in separate tables rather than putting all the data in one big storeroom. This adds speed and flexibility. The SQL part of “MySQL” stands for “Structured Query Language.” SQL is the most common standardized language used to access databases and is defined by the ANSI/ISO SQL Standard. The SQL standard has been evolving since 1986 and several versions exist. “SQL-92” refers to the standard released in 1992, “SQL:1999” refers to the standard released in 1999, and “SQL:2003” refers to the current version of the standard. We use the phrase “the SQL standard” to refer to the current version of the SQL Standard.
- MySQL software is Open Source. Open Source means that it is possible for anyone to use and modify the software. Anybody can download the MySQL software from the Internet and use it without paying anything. If you wish, you may study the source code and change it to suit your needs. The MySQL software uses the GPL (GNU General Public License), to define what you may and may not do with the software in different situations. The MySQL Database Server is very fast, reliable, and easy to use.

MySQL Server was originally developed to handle large databases and has been successfully used in highly demanding production environments for several years. MySQL Server today offers a rich and useful set of functions. Its connectivity, speed, and security make MySQL Server highly suited for accessing databases on the Internet.

2.3.7 XAMPP Server

Xampp server installs a complete, ready-to-use development environment. Xampp server allows you to fit your needs and allows you to setup a local server with the same characteristics as your

production. While setting up the server and PHP on your own, you have two choices for the method of connecting PHP to the server. For many servers, PHP has a direct module interface (also called SAPI). These servers include Apache, Microsoft Internet Information Server, Netscape and iPlanet servers. Many other servers support ISAPI, the Microsoft module interface (OmniHTTPd for example). If PHP has no module support for your web server, you can always use it as a CGI or FastCGI processor. This means you set up your server to use the CGI executable of PHP to process all PHP file requests on the server.

- OpenGL is case sensitive
- Line Color, Filled Faces and Fill Color not supported.
- Shadow plane is not supported.

Chapter 3

Database Design

3.1 Attributes

The database contains following tables: **Users:**

Username

Password

Companies:

Company Id

Company Name

Description

Info:

no

comp id

suggestion

no of rounds

package

project

success

failure

3.2 ER Diagram

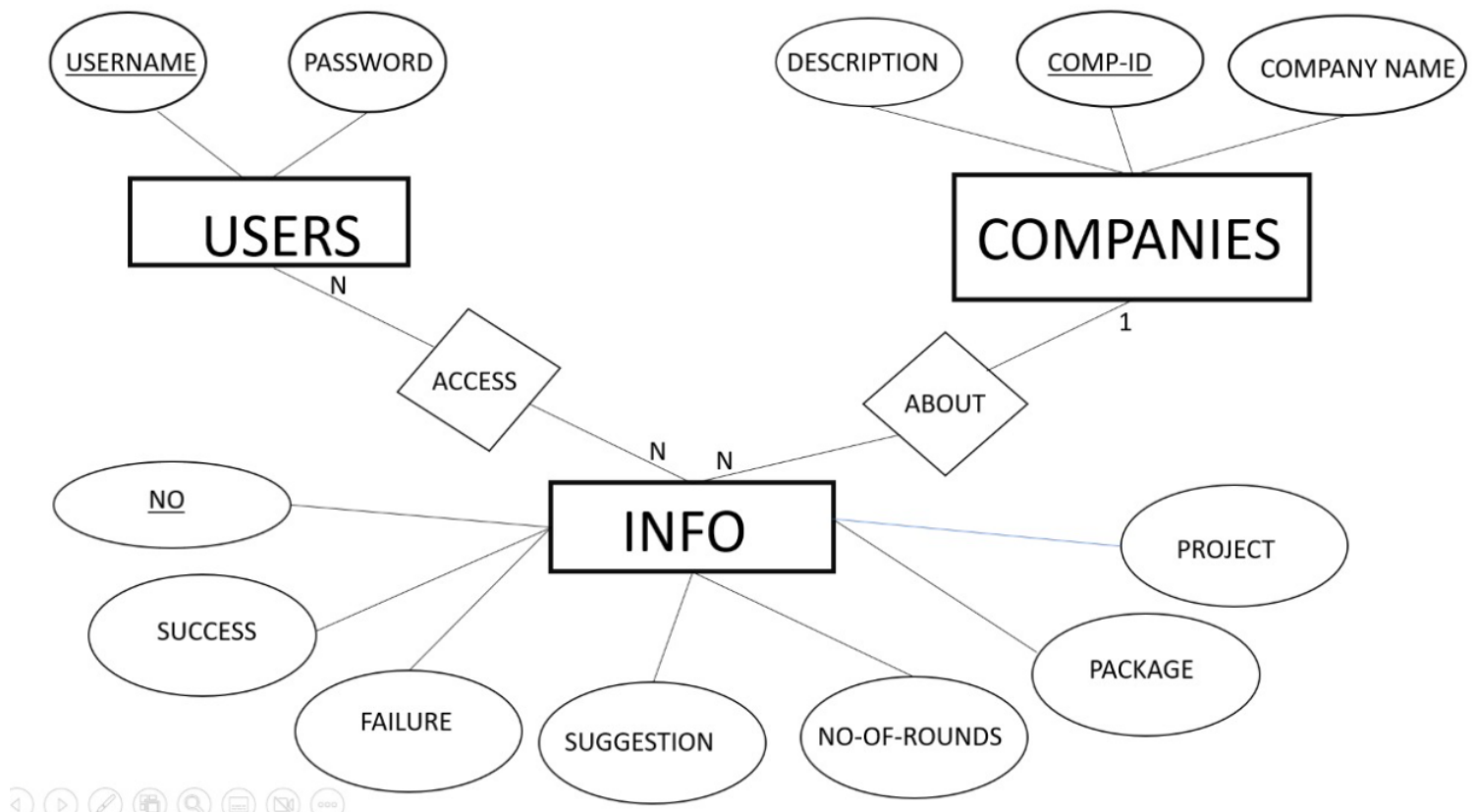


Fig.3.1. ER Diagram for Placement Management System

Info about ER Diagram:

It consists of three Attributes mainly:-

Users,

Companies,

Info

3.3 Relational Schema

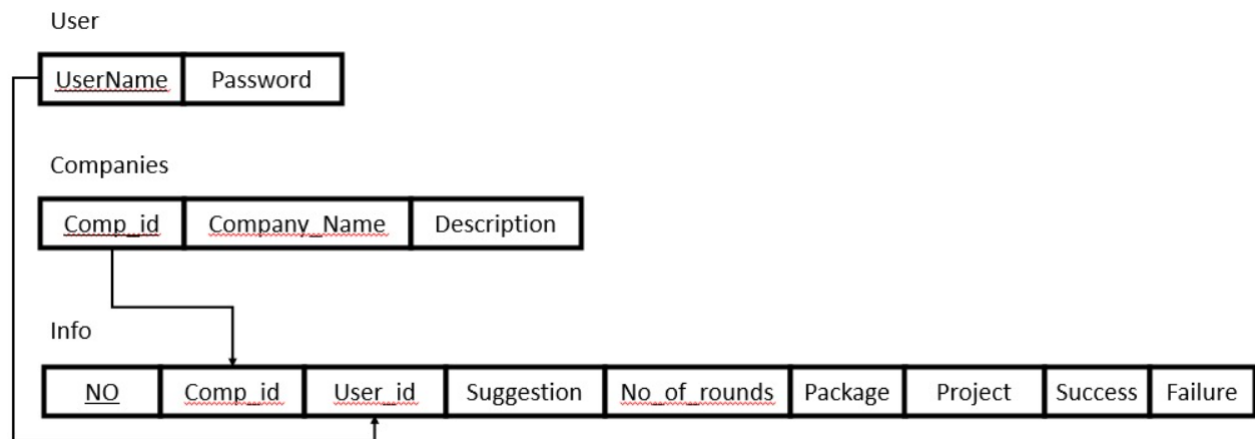


Fig.3.2. Schema Diagram for Placement Management System

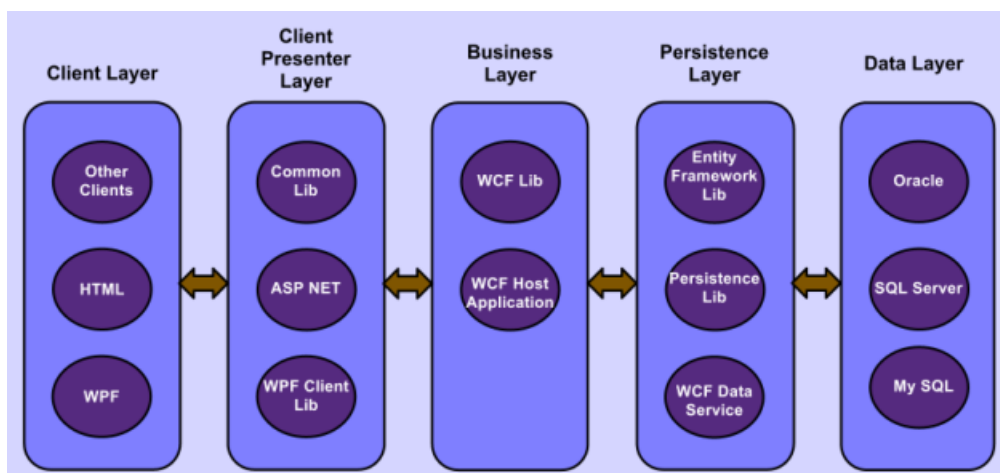
Chapter 4

Implementation

4.1 Creating Database Connection

- You can connect your deployments by either: Providing your connection string. Specifying Advanced Connection Options. Advanced connection options allow you to specify authentication, TLS/SSL, and SSH connection options.
- Here we make use of MongoDB Compass which is a GUI for MongoDB to establish connection to our server.
- Connect to the MongoDB Server 3.1 db = connect("localhost:27017/myDatabase")
- Access the database 4.1.db.myNewCollection1.insertOne(x: 1)

4.2 Architecture used(4-tier architecture)



Four Tier architecture is a client–server architecture in which presentation, application processing, and data management functions are physically separated. Four-tier application architecture provides

a model by which developers can create flexible and reusable applications. By segregating an application into tiers, developers acquire the option of modifying or adding a specific layer, instead of reworking the entire application

Presentation layer

This is the topmost level of the application. The presentation tier displays information related to services such as browsing merchandise, purchasing and shopping cart contents. It also communicates with other tiers and puts out the results to the browser/client tier and to all other tiers in the network. In simple terms, it is a layer which users can access directly (such as a web page, or an operating system's GUI).

Business Layer

Business layer or domain logic is the part of the program that encodes the real-world business rules which determine how data can be created, stored, and changed. It is contrasted with the remainder of the software that might be concerned with lower-level details of managing a database or displaying the user interface, system infrastructure, or generally connecting various parts of the program.

Data access layer

A Data Access Layer (DAL) in computer software, is a layer of computer program which provides simplified access to data stored in persistent storage. For example, the DAL might return a reference to an object (in terms of object-oriented programming) with its attributes instead of a row of fields from a database table. This allows the client (or user) modules to be created with a higher level of abstraction. This kind of model could be implemented by creating a class of data access methods that directly reference a corresponding set of database stored procedures. Another implementation could potentially retrieve or write records to or from a file system. The DAL hides the complexity of the underlying data store from the external world.

Control layer

The control layer is responsible for the communication between business and presentation layer. It connects logic and data with each other and provides a better connectivity and separation between layers

4.2.1 Pseudo Code For Major Functionalities

Companies page: To display Company names.

```
<div class="container my-5">
  <div class="row my-4 mx-0">

    <?php
      $query = "SELECT * from `companies`";
      $result = mysqli_query($conn , $query);
      while($row = mysqli_fetch_assoc($result)){

        $no = $row['sno'];
        $name = $row['comp_name'];
        $desc = $row['description'];
        $desc = substr($desc,0,50);
        echo ' <div class="col-4 my-2 mx-0">
          <div class="card" style="width: 18rem;">
            
            <div class="card-body">
              <h5 class="card-title">'.$name.'</h5>
              <p class="card-text">'.$desc.'.....</p>
              <a href="../../categories/categories.php?id='.$no.'"
              class="btn btn-primary">Show more..</a>
            </div>
          </div>
        </div>';
      }
    <?>
  </div>
</div>
```

Fig.3.2. Landing Page Code Snippet

List page: To list the data present for a particular company.

```
<?php
    $id=$_GET['id'];
    $query = "SELECT * from `info` where `comp_id`='$id';";
    $result = mysqli_query($conn , $query);
    while($row = mysqli_fetch_assoc($result)){

        $user = $row['user_id'];
        $suggestion = $row['suggestion'];
        $suggestion = substr($suggestion,0,100);


        echo '
<div class="card">
<p class="card-footer">Created by <strong>' . $user . '</strong></p>
<p>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~' . $suggestion . '...</p>
<a href="../../info/info.php?id=' . $id . '&uid=' . $user . '">Read More -></a>

</div>
';
    }
?>
```

Fig.3.3. List Page Code Snippet

Data page: To Represent a data inserted by a particular user.

```
<?php
    $uid=$_GET['uid'];
    $id=$_GET['id'];

    $query = "SELECT * from `info` where `comp_id`=$id and `user_id`='$uid'";
    $result = mysqli_query($conn , $query);
    while($row = mysqli_fetch_assoc($result)){
        $comp = $row['comp_id'];

        //to find company name
        $que = "SELECT * from `companies` where `sno`=$comp";
        $res = mysqli_query($conn , $que);
        $some = mysqli_fetch_assoc($res);
        $comp=$some['comp_name'];

        $round = $row['no_of_rounds'];
        $package = $row['package'];
        $project = $row['project'];
        $success = $row['success'];
        $failure = $row['failure'];
        $suggestion = $row['suggestion'];

        echo '
            <div class="card">
            <h1>created by <strong>'.$uid.'</strong> </h1>
            <p><strong>1. Company name</strong> = '.$comp.'</p>
            <p><strong>2. No of Technical Rounds</strong> = '.$round.'</p>
            <p><strong>3. Package Offered</strong> = '.$package.'</p>
            <p><strong>4. Is Project Neccessary? </strong> = '.$project.'</p>
            <p><strong>5. My Success Experience </strong>: '.$success.'</p>
            <p><strong>6. My Failure Experience </strong>: '.$failure.'</p>
            <p><strong>7. My Suggestions </strong>: '.$suggestion.'</p>
            </div>
        '
    ;
}
```

Fig.3.4. Data Page Code Snippet

Chapter 5

Results & Snapshots

Landing page: It is used to display landing page of website.

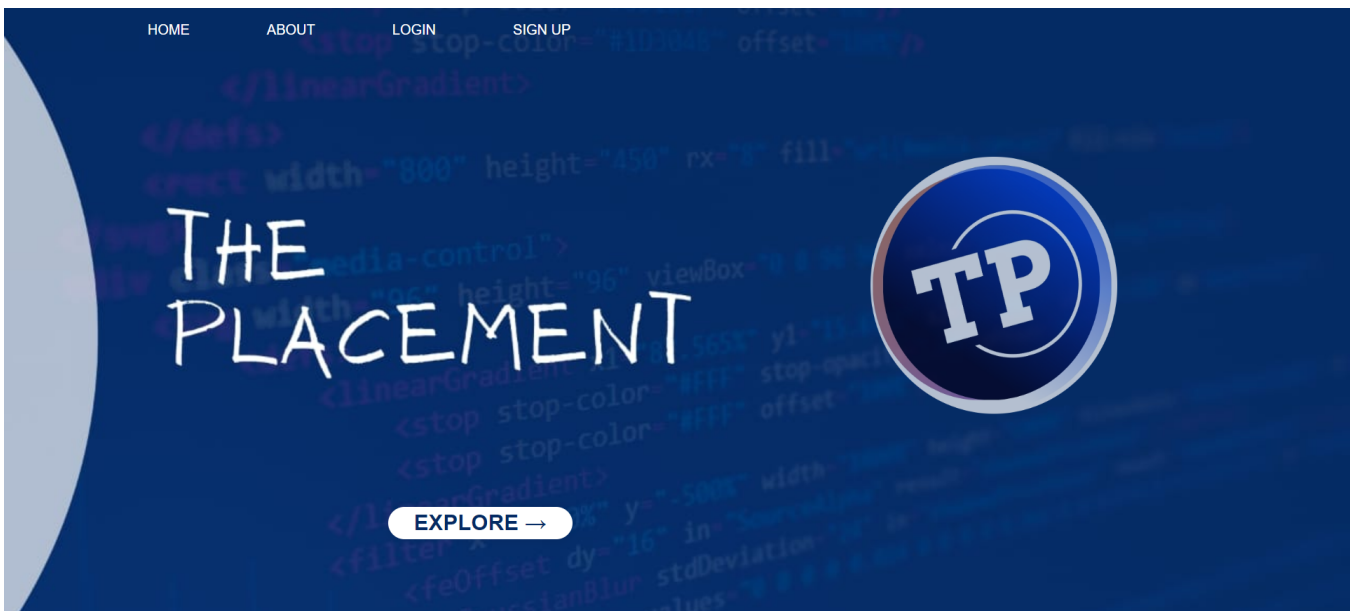


Fig.5.1. Landing page

Login page: It is used to login in to the website.

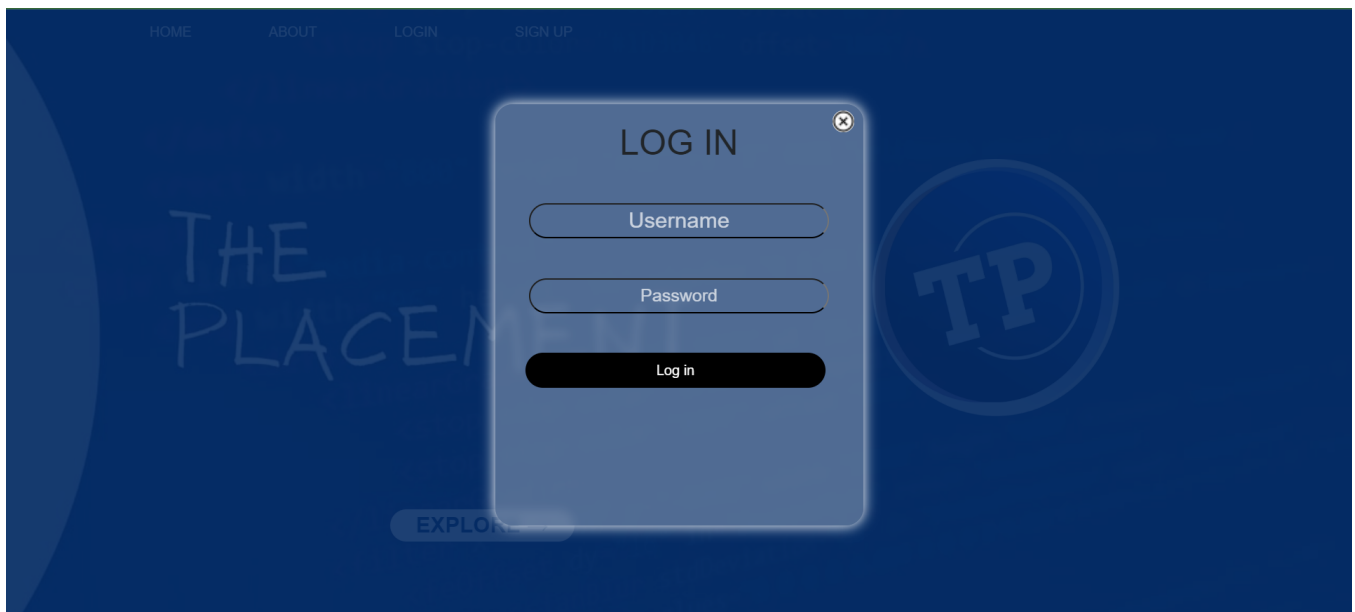


Fig.5.2. Login page

Signup page: It is used to signup to the website.

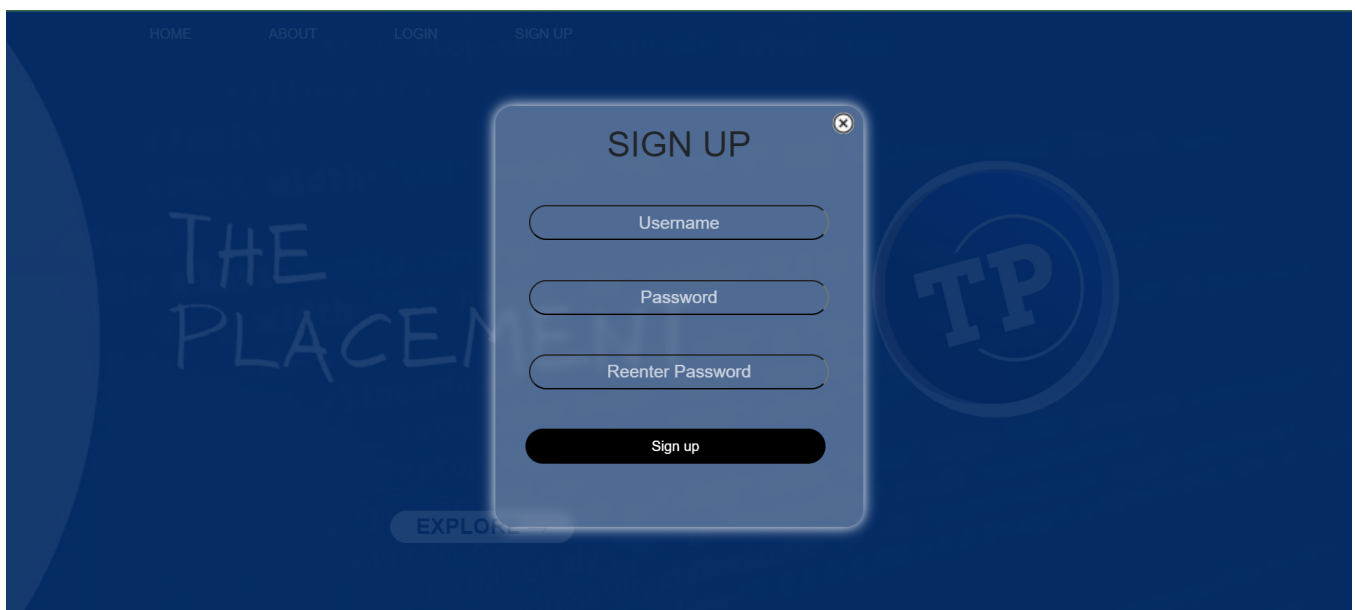


Fig.5.3. Signup page

Companies page: It is display companies on the website.

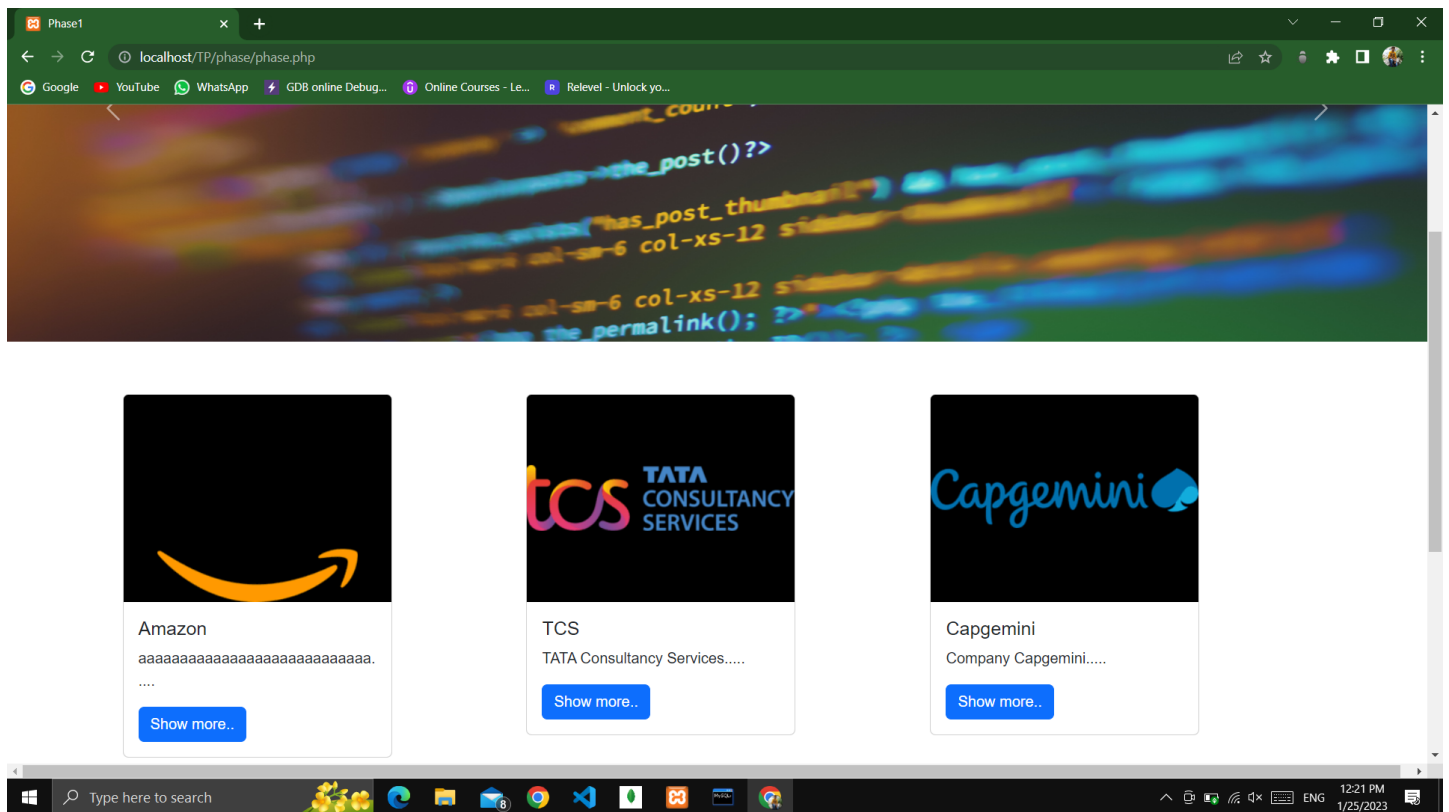


Fig.5.4. Companies page

Candidates page: It is display candidates of particular company.



Fig.5.5. Candidates page

Information page: It is display information of particular candidate

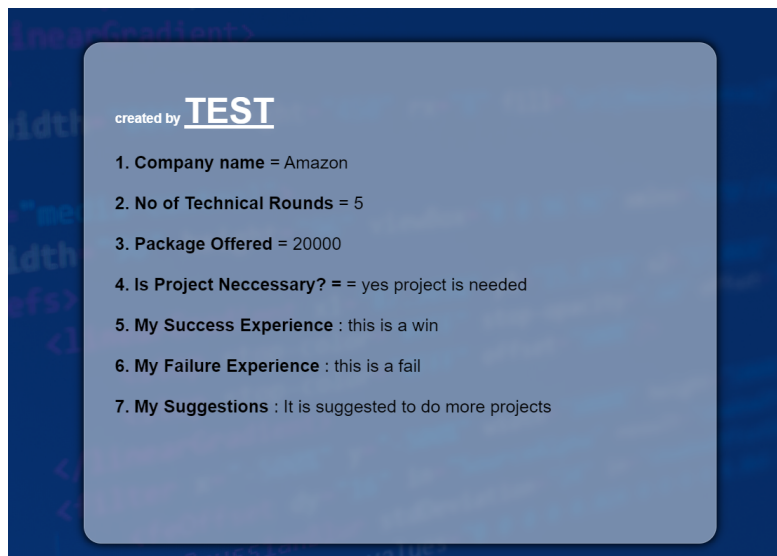


Fig.5.6. Information page

Chapter 6

Conclusion & Future Enhancements

6.1 Conclusion

sample conclusion given write about your project Insight – An application to help the visually impaired plays a vital role in improving the difficulties faced by providing various functionalities that are a part of their day-to-day activities by acting as a third eye to the individual. It will improve access, integration, and independence of the blind in workplace or educational setting. There is no need for extra hardware as it utilizes the mobile device camera. The application is easier to use because of voice assistant capabilities provided by TTS and STT. This project makes use of smartphone, a common device available to anyone. Facial recognition offers a quick, automatic, and seamless verification experience. TTS gives access to content for those with learning difficulties, physical disabilities. Automatic summary software summarizes texts of 500-5000 words in a split second. This allows the user to read less data but still receive the most important information and make solid conclusions. OCR can be used to automate data-entry tasks such as processing credit cards, receipts, and business cards, and also extract text from pictures of documents, which can be used to increase accessibility or translate documents. Translate API instantly translates texts into more than one hundred languages for websites and apps. Agora Video Call enables easy and convenient one-to-one or one-to-many calls and supports voice-only and video modes with the Agora RTC SDK. There is always room for improvement in any application, however good and efficient it may be. But the improvement thing is that the system should be flexible enough for further modifications. Considering this important factor, the system is designed in such a way that provisions can be given for further enhancement without affecting the system presently developed.

6.2 Future Enhancements

Some of the future works include training the model and increasing the accuracy of text summarizing, add more user-friendly voice commands and replies. These can also involve designing blind user compatible buttons (in case of emergencies) and increase the accuracy of face recognition and object detection.

Chapter 7

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