

1.INTRODUCTION

1.1 Project Introduction

Job Search Portal is a web application, which serves jobseekers to find available job vacancies and Employers to identify eligible job seekers with the prospect of selecting the most qualified candidates. The only way to select best-qualified candidate is to have a pool of eligible applicants, which is possible by drawing the interest of individuals in the market. Job search portals best serve this purpose. E-recruitment has become the standard means for employers and job seekers to meet their respective objectives. The traditional methods for recruitment include Job fairs, University career employment services, Employee referrals, advertising in the newspapers, televisions etc. With the advancement in technology and growth of internet usage, the e-recruitment has revolutionized the way organizations hire and candidates search for jobs. With the Online Job search portals, the recruitment process is speeded up at every stage from job postings, to receiving applications from candidates, interviewing process. The cost of searching/posting jobs will be much less compared to the traditional way of advertising. Job search portal stands as an effective means for Employers to outline the job vacancies, responsibilities and qualifications to attract jobseekers. Using the portal jobseekers can extensively search for jobs in companies, organizations and regions they may otherwise have not learnt. In addition, candidates/Employers can write a review about an organization, which might help them to change the way things are done.

1.2 PURPOSE OF THE PROJECT

This system can be used as an Online Job Portal for the Placements providing to then employees who are seeking for a job placement. Job Seeker logging into the system and he can should be able to upload their information in the form of a CV. Visitors/Company representatives logging in may also access/search any information put up by Job Seeker.

2. LITERATURE SURVEY

2.1 EXISTING SYSTEM

The existing system for job recruitment includes traditional methods like Employment agencies, advertising through newspapers, televisions and radios, college fairs etc., which are too slow and stressful. With the advancement of internet, jobseekers rely on the online job portals, which make the job search efficient. Again, most of these are limited to the web/desktop applications, which requires jobseekers to have a laptop or desktop connected to internet and is not handy.

2.1.1 PROPOSED SYSTEM

Online Job Portal is developed to provide an effective means for the employers to post job openings with required qualification to have a better penetration into the job market and jobseekers to find out the information regarding the current openings in the organization. In addition, Employers can view the reviews provided by the applicants to make necessary improvements in their system if needed. Online Job portal is web-based application providing flexibility for the users.

2.2 FEASIBILITY STUDY

The feasibility of the project is analyzed in this phase and business proposal is put forth with a very general plan for the project and some cost estimates. During system analysis the feasibility study of the proposed system is to be carried out. This is to ensure that the proposed system is not a burden to the company. For feasibility analysis, some understanding of the major requirements for the system is essential.

Three key considerations involved in the feasibility analysis are:

2.2.1 Economic Feasibility

This study is carried out to check the economic impact will have on the system will have on the organization. The amount of fund that the company can pour into the research and development of the system is limited. The expenditures must be justified. Thus, the developed system as well within the budget and this was achieved because most of the technologies used are freely available. Only the customized products have to be purchased.

2.2.2 Technical Feasibility

This study is carried out to check the technical feasibility, that is, the technical requirements of the system. Any system developed must not have a high demand on the available technical resources. This will lead to high demands being placed on the client. The developed system must have a modest requirement, as only minimal or null changes for the implementing this system.

2.2.3 Operational Feasibility

The aspect of study is to check the level of acceptance of the system by the user. This includes the process of training the user to use the system efficiently. The user must not feel threatened by the system, instead must accept it as a necessity. The level of acceptance by the users solely depends on the methods that are employed to educate the user about the system and to make him familiar with it. His level of confidence must be raised so that he is also able to make some constructive criticism, which is welcomed, as he is the final user of the system.

2.3 TOOLS AND TECHNOLOGIES

HTML:

HTML or **Hypertext Markup Language** is the standard markup language used to create web pages.

HTML is written in the form of HTML elements consisting of *tags* enclosed in angle brackets (like `<html>`). HTML tags most commonly come in pairs like `<h1>` and `</h1>`, although some tags represent *empty elements* and so are unpaired, for example ``. The first tag in a pair is the *start tag*, and the second tag is the *end tag* (they are also called *opening tags* and *closing tags*). Though not always necessary, it is best practice to append a slash to tags which are not paired with a closing tag.

The purpose of a web browser is to read HTML documents and compose them into visible or audible web pages. The browser does not display the HTML tags, but uses the tags to interpret the content of the page. HTML describes the structure of a website semantically along with cues for presentation, making it a markup language rather than a programming language.

HTML elements form the building blocks of all websites. HTML allows images and objects to be embedded and can be used to create interactive forms. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. It can embed scripts written in languages such as JavaScript which affect the behavior of HTML web pages.

CASCADING STYLE SHEETS (CSS):

It is a style sheet language used for describing the look and formatting of a document written in a markup language. While most often used to style web pages and interfaces written in HTML and XHTML, the language can be applied to any kind of XML document, including plain XML, SVG and XUL. CSS is a cornerstone specification of the web and almost all web pages use CSS style sheets to describe their presentation.

CSS is designed primarily to enable the separation of document content from document presentation, including elements such as the layout, colors, and fonts.^[1] This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple pages to share formatting, and reduce complexity and repetition in the structural content .

CSS can also allow the same markup page to be presented in different styles for different rendering methods, such as on-screen, in print, by voice (when read out by a speech-based browser or screen reader) and on Braille-based, tactile devices. It can also be used to allow the web page to display differently depending on the screen size or device on which it is being viewed. While the author of a document typically links that document to a CSS file, readers can use a different style sheet, perhaps one on their own computer, to override the one the author has specified. However, if the author or the reader did not link the document to a specific style sheet the default style of the browser will be applied.

MySQL:

MySQL is developed, distributed, and supported by Oracle Corporation. MySQL is a database system used on the web it runs on a server. MySQL is ideal for both small and large applications. It is very fast, reliable, and easy to use. It supports standard SQL. MySQL can be compiled on a number of platforms.

The data in MySQL is stored in tables. A table is a collection of related data, and it consists.

JAVASCRIPT:

JavaScript is the scripting language of the Web. All modern HTML pages are using JavaScript. A scripting language is a lightweight programming language. JavaScript code can be inserted into any HTML page, and it can be executed by all types of web browsers. JavaScript is easy to learn.

PHP:**WHAT IS PHP?**

- PHP is an acronym for "PHP Hypertext Preprocessor"
- PHP is a widely-used, open-source scripting language
- PHP scripts are executed on the server
- PHP costs nothing, it is free to download and use

WHAT IS PHP FILE?

- PHP files can contain text, HTML, CSS, JavaScript, and PHP code
- PHP code are executed on the server, and the result is returned to the browser as plain HTML
- PHP files have extension ".php"

WHAT CAN PHP DO?

- PHP can generate dynamic page content
- PHP can create, open, read, write, delete, and close files on the server
- PHP can collect form data
- PHP can send and receive cookies
- PHP can add, delete, modify data in your database
- PHP can restrict users to access some pages on your website
- PHP can encrypt data
- With PHP you are not limited to output HTML. You can output images, PDF files, and even Flash movies. You can also output any text, such as XHTML and XML.

WHY PHP?

- PHP runs on various platforms (Windows, Linux, Unix, Mac OS X, etc.)
- PHP is compatible with almost all servers used today (Apache, IIS, etc.)
- PHP supports a wide range of databases
- PHP is free. Download it from the official PHP resource: www.php.net

3. SOFTWARE AND HARDWARE REQUIREMENTS

3.1 INTRODUCTION

To be used efficiently, all computer software needs certain hardware components or the other software resources to be present on a computer. These pre-requisites are known as (computer) system requirements and are often used as a guideline as opposed to an absolute rule. Most software defines two sets of system requirements: minimum and recommended. With increasing demand for higher processing power and resources in newer versions of software, system requirements tend to increase over time. Industry analysts suggest that this trend plays a bigger part in driving upgrades to existing computer systems than technological advancements.

3.2 HARDWARE REQUIREMENTS

The most common set of requirements defined by any operating system or software application is the physical computer resources, also known as hardware. A hardware requirements list is often accompanied by a hardware compatibility list (HCL), especially in case of operating systems. An HCL lists tested, compatibility and sometimes incompatible hardware devices for a particular operating system or application. The following sub-sections discuss the various aspects of hardware requirements.

HARDWARE REQUIREMENTS FOR PRESENT PROJECT:

PROCESSOR : Intel dual Core, i3
RAM : 1 GB
HARD DISK : 80 GB

3.2.1 SOFTWARE REQUIREMENTS:

Software Requirements deal with defining software resource requirements and pre-requisites that need to be installed on a computer to provide optimal functioning of an application. These requirements or pre-requisites are generally not included in the software installation package and need to be installed separately before the software is installed.

SOFTWARE REQUIREMENTS FOR PRESENT PROJECT:

OPERATING SYSTEM : Windows 7/ XP/8
FRONT END : HTML, CSS, JavaScript query
SERVER-SIDE SCRIPT : PHP
DATABASE : MySQL

3.4 MODULES

Online job portal has three modules.

3.4.1 Admin module

- Admin can see the number of jobs posted daily.
- Admin can approve or delete the company registered in the job portal.
- Admin can see the experiences of users
- Admin can see job portal statistics.
- Admin can see the registered number of students and registered number of companies.
- Admin can also change his/her own password.

3.4.2 User module:

- User can Sign up through the portal and then login in.
- User can edit his own profile.
- User can search different job posted by different company.
- User receive mail from companies from company about their job status.
- User can also change his/her own password.

3.4.3 Company module:

- Company can Sign up through the portal and then login in.
- Company can see how many jobs has been posted.
- Company has access to resumes of candidates who had applied to this particular company.
- Company has access to job application.
- Company can create job post.
- Company can also change his/her own password

4. SYSTEM DESIGN

4.1 INTRODUCTION TO UML:

4.1.1 UML Design

The Unified Modeling Language (UML) is a standard language for specifying, visualizing, constructing, and documenting the software system and its components. It is a graphical language, which provides a vocabulary and set of semantics and rules. The UML focuses on the conceptual and physical representation of the system. It captures the decisions and understandings about systems that must be constructed. It is used to understand, design, configure, maintain, and control information about the systems.

The UML is a language for:

- Visualizing
- Specifying
- Constructing
- Documenting

Visualizing

Through UML we see or visualize an existing system and ultimately, we visualize how the system is going to be after implementation. Unless we think, we cannot implement. UML helps to visualize, how the components of the system communicate and interact with each other.

Specifying

Specifying means building, models that are precise, unambiguous and complete UML addresses the specification of all the important analysis design, implementation decisions that must be made in developing and deploying a software system.

Constructing

UML models can be directly connected to a variety of programming language through mapping a model from UML to a programming language like JAVA or C++ or VB. Forward Engineering and Reverse Engineering is possible through UML.

Documenting

The Deliverables of a project apart from coding are some Artifacts, which are critical in controlling, measuring and communicating about a system during its developing requirements, architecture, desire, source code, project plans, tests, prototypes releasers, etc.

4.1.2 UML Approach

UML Diagram

A diagram is the graphical presentation of a set of elements, most often rendered as a connected graph of vertices and arcs. you draw diagram to visualize a system from different perspective, so a diagram is a projection into a system. For all but most trivial systems, a diagram represents an elided view of the elements that make up a system. The same element may appear in all diagrams, only a few diagrams, or in no diagrams at all. In theory, a diagram may contain any combination of things and relationships. In practice, however, a small number of common combinations arise, which are consistent with the five most useful views that comprise the architecture of a software-intensive system. For this reason, the UML includes nine such diagrams:

- Class diagram
- Object diagram
- Use case diagram
- Sequence diagram
- Collaboration diagram
- State chart diagram
- Activity diagram
- Component diagram
- Deployment diagram

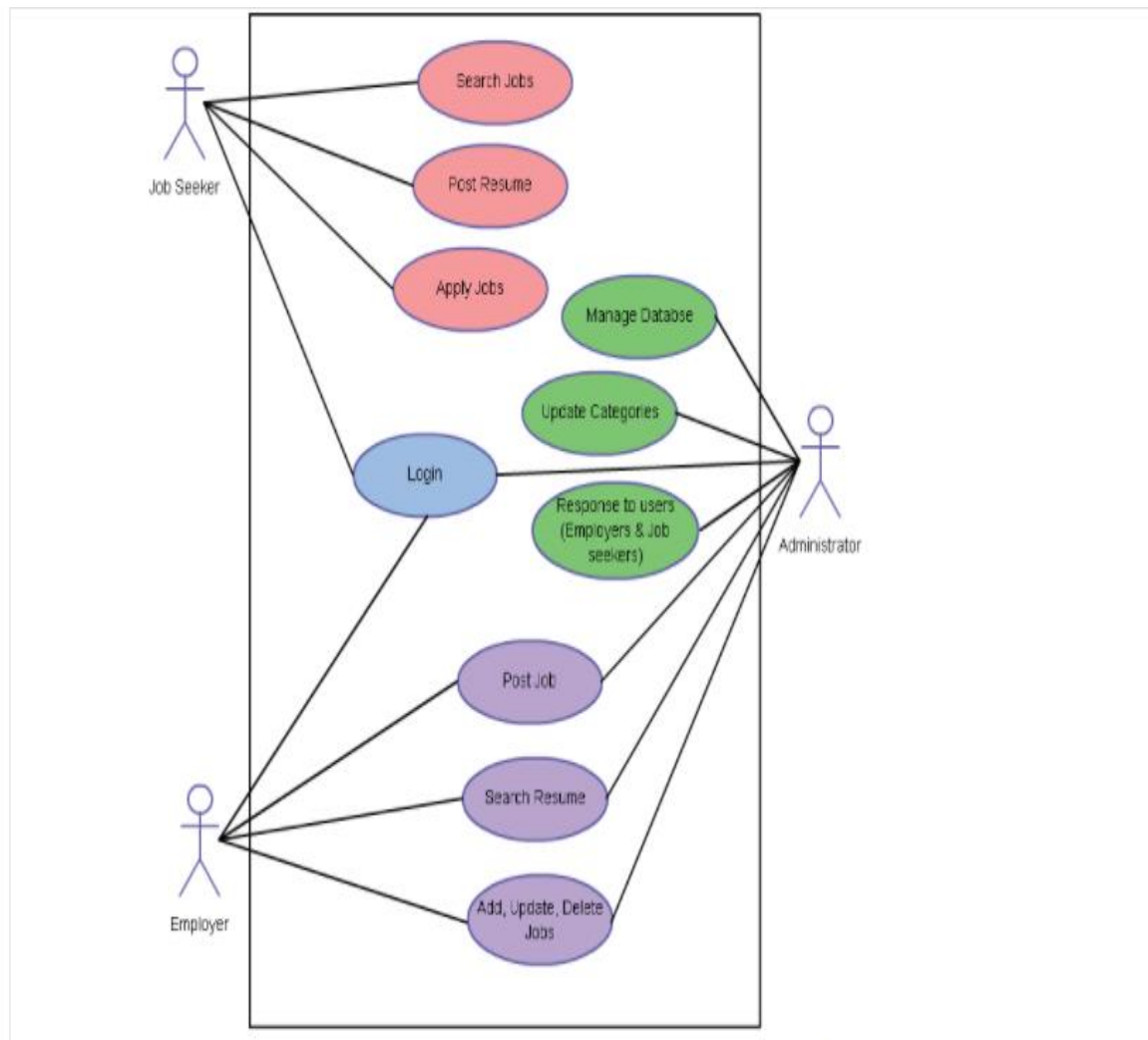
4.1 USE CASE DIAGRAM

A use case diagram in the Unified Modeling Language (UML) is 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.

Use case diagrams are formally included in two modeling languages defined by the OMG: the unified modeling language (UML) and the systems modeling language(sysML)

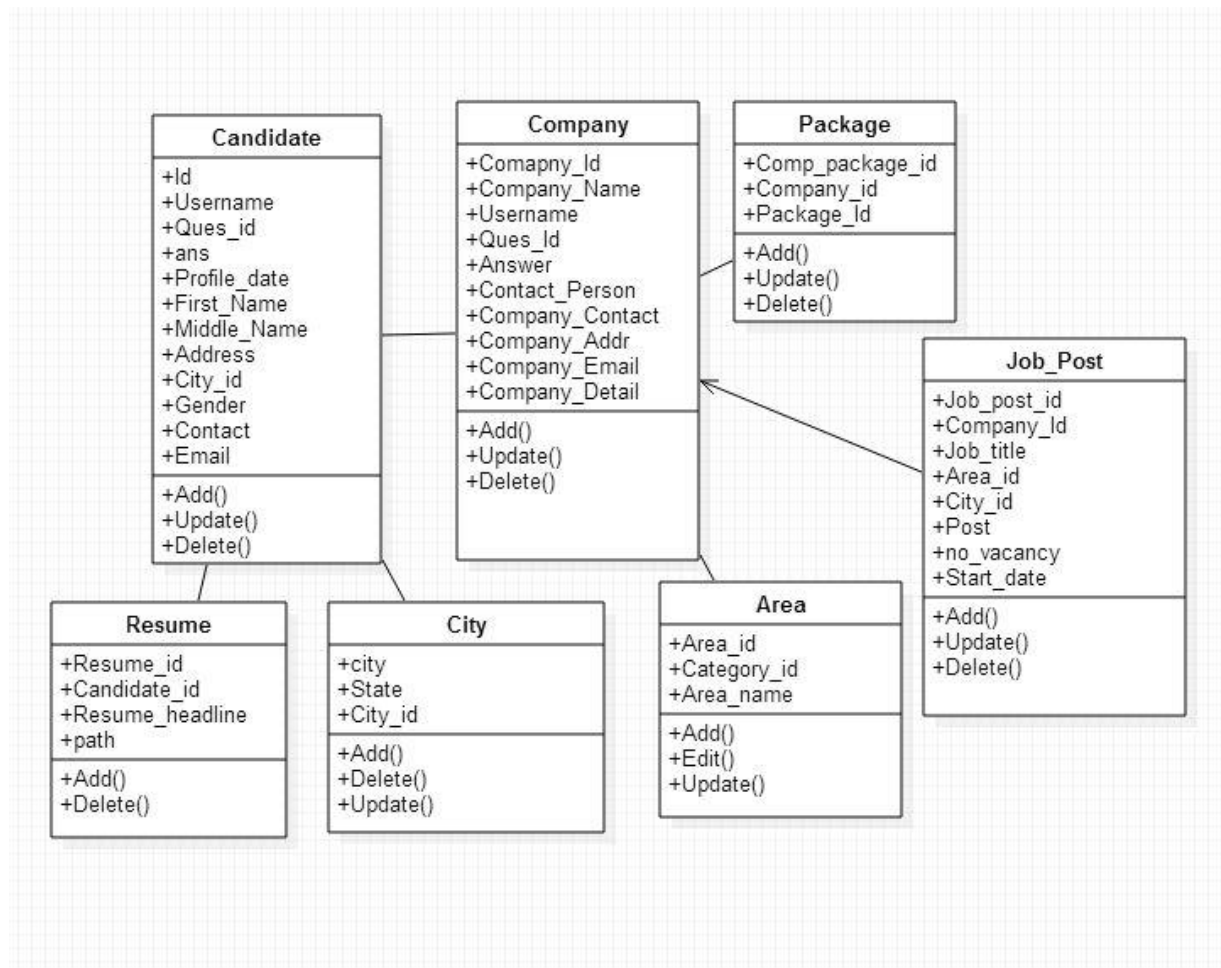
Use case diagram of our project:

Use Case Diagram: User

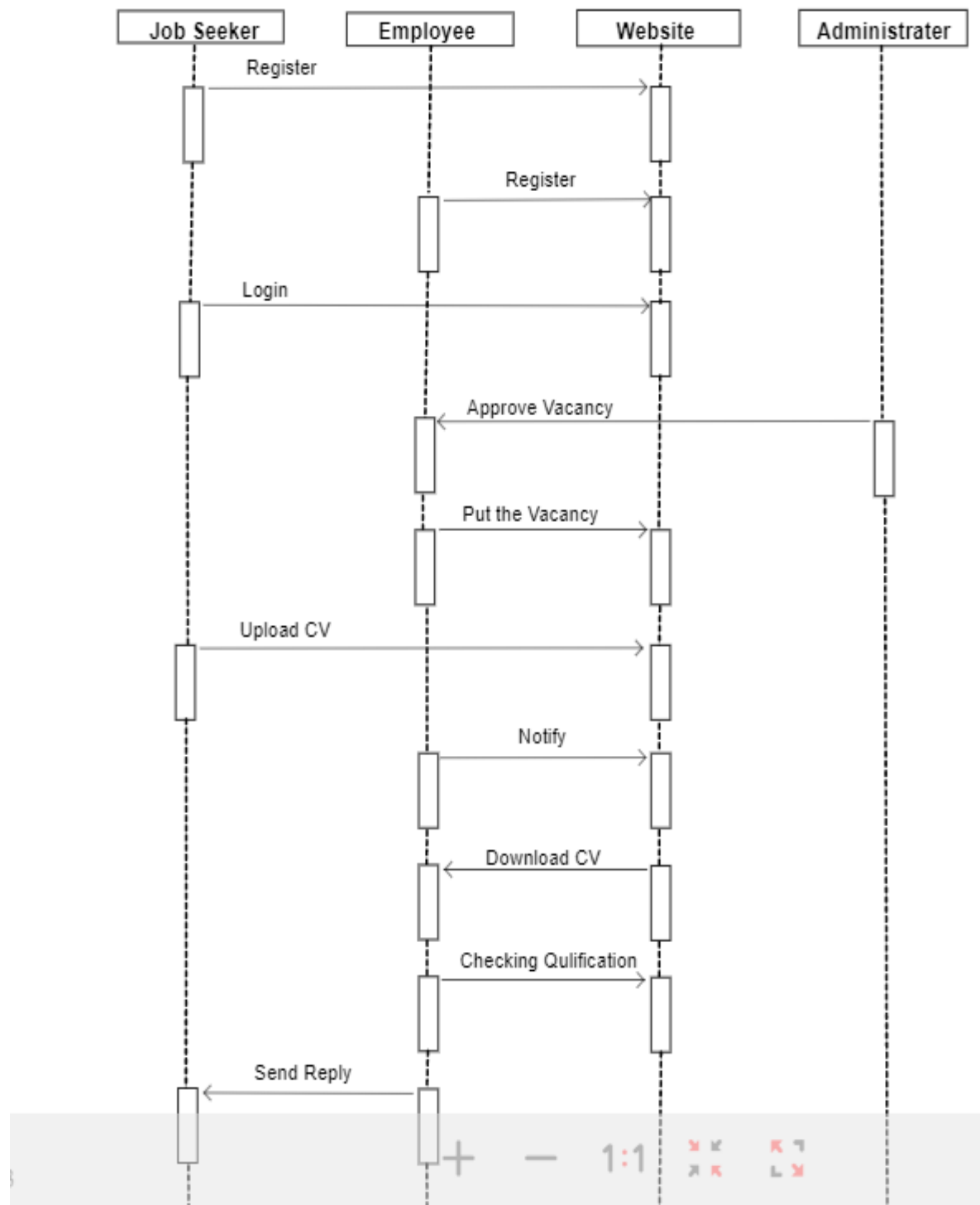


4.2 Class Diagram:

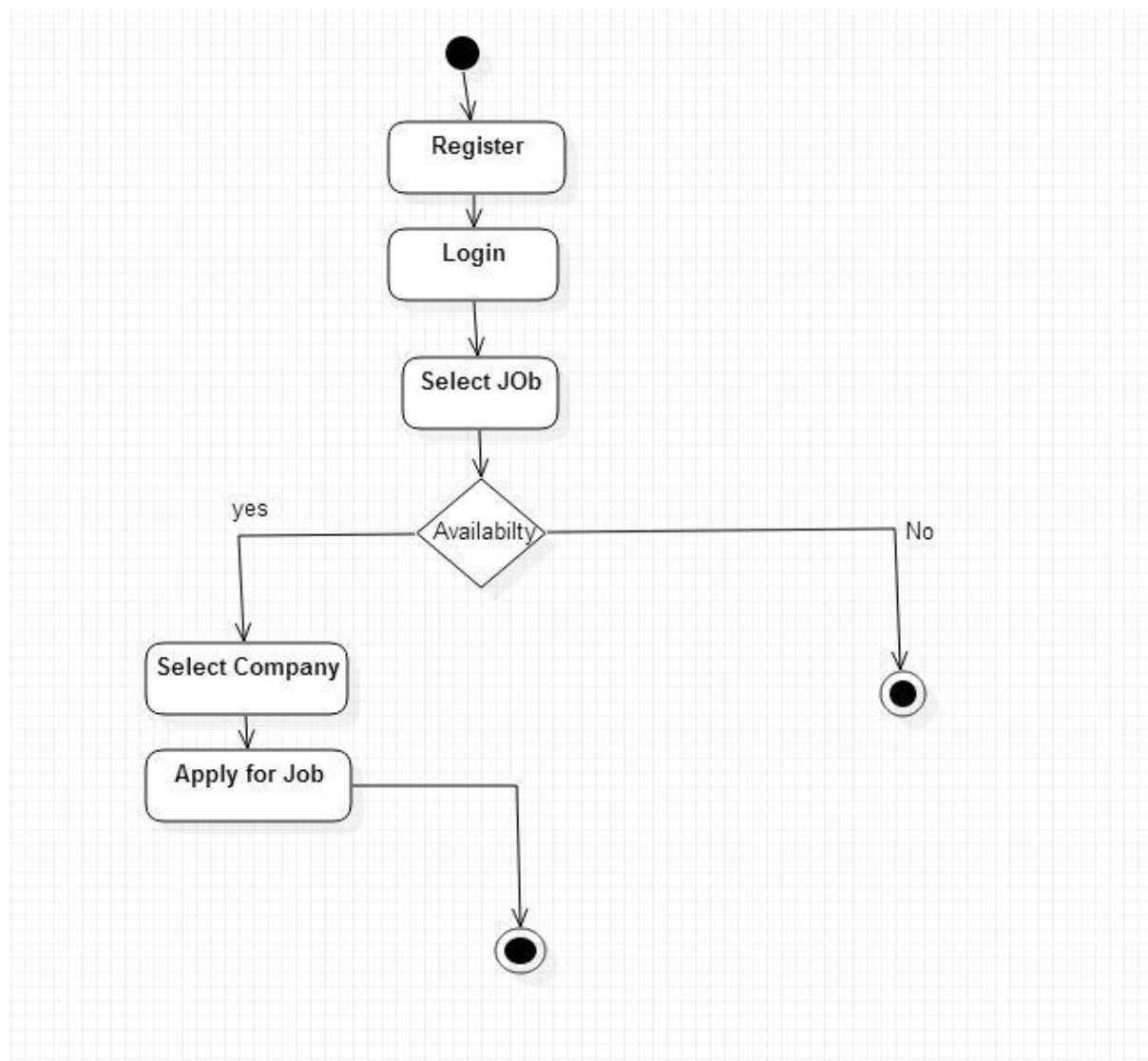
A Class is a category or group of things that has similar attributes and common behavior. A Rectangle is the icon that represents the class it is divided into three areas. The upper most area contains the name, the middle; area contains the attributes and the lowest areas show the operations. Class diagrams provides the representation that developers work from. Class diagrams help on the analysis side, too.



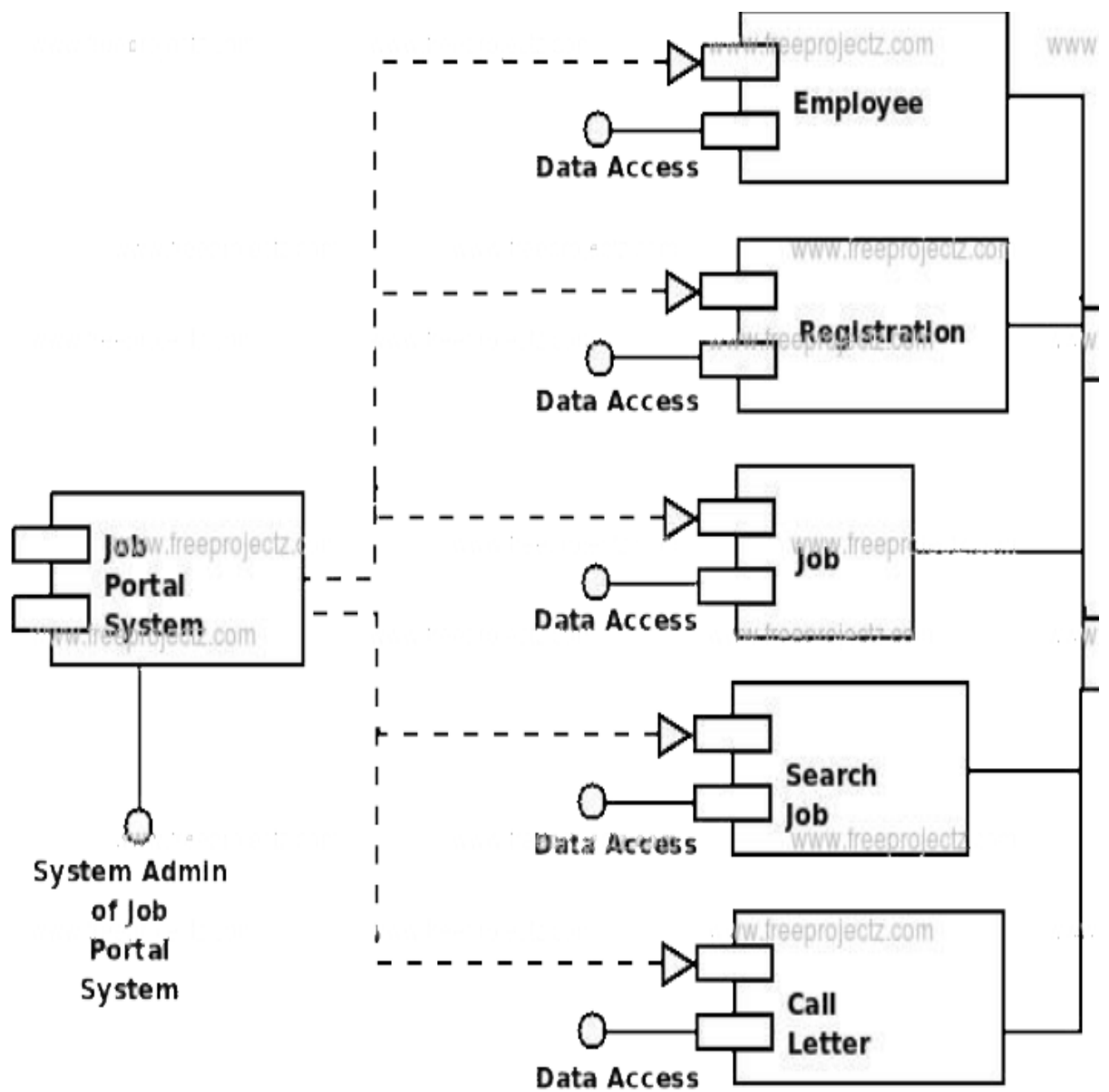
4.3 Sequence Diagram



4.4 Activity Diagram



4.5 Component Diagram



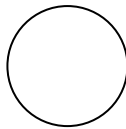
4.6 Data Flow Diagram

A DFD does not show a sequence of steps. A DFD only shows what the different process in a system is and what data flows between them.

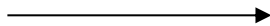
The following are some DFD symbols used in the project



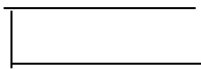
External entities



Process: A transaction of information that resides within the bounds of the system to be module.



Dataflows



DATASTORE: A repository of data that is to be stored for use by one or more processes, may be as simple as buffer of queue or as a relational database.

RULES FOR DFD:

- Fix the scope of the system by means of context diagrams.
- Organize the DFD so that the main sequence of the actions reads left to right and top to bottom.
- Identify all inputs and outputs.
- Identify and label each process internal to the system with rounded circles.
- A process is required for all the data transformation and transfers. Therefore, never connect a data store to a data source or the destinations or another data store with just a data flow arrow.
- Do not indicate hardware and ignore control information.
- Make sure the names of the processes accurately convey everything the process is done.
- There must not be unnamed process.
- Indicate external sources and destinations of the data, with squares.
- Number each occurrence of repeated external entities.
- Identify all data flows for each process step, except simple Record retrievals.
- Label data flow on each arrow.

- Use details flow on each arrow.
- Use the details flow arrow to indicate data movements.
- There can't be unnamed data flow.
- A data flow can't connect two external entities.

LEVELS OF DFD:

The complexity of the business system means that it is a responsible to represent the operations of any system of single data flow diagram. At the top level, an Overview of the different systems in an organization is shown by the way of context analysis diagram. When exploded into DFD

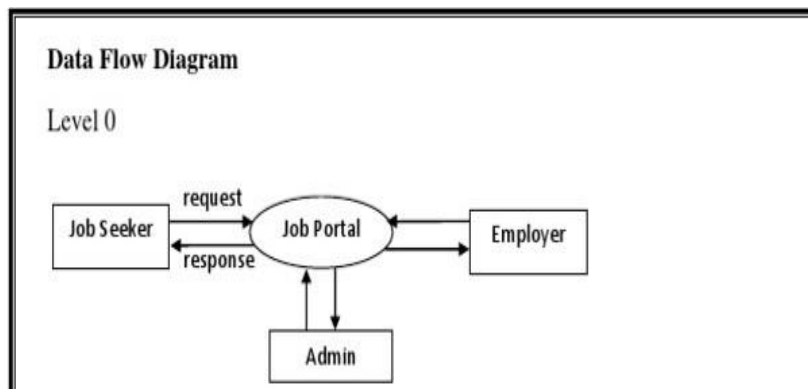
They are represented by:

- LEVEL-0: SYSTEM INPUT/OUTPUT
- LEVEL-1: SUBSYSTEM LEVEL DATAFLOW FUNCTIONAL
- LEVEL-2: FILE LEVEL DETAIL DATA FLOW.

The input and output data shown should be consistent from one level to the next.

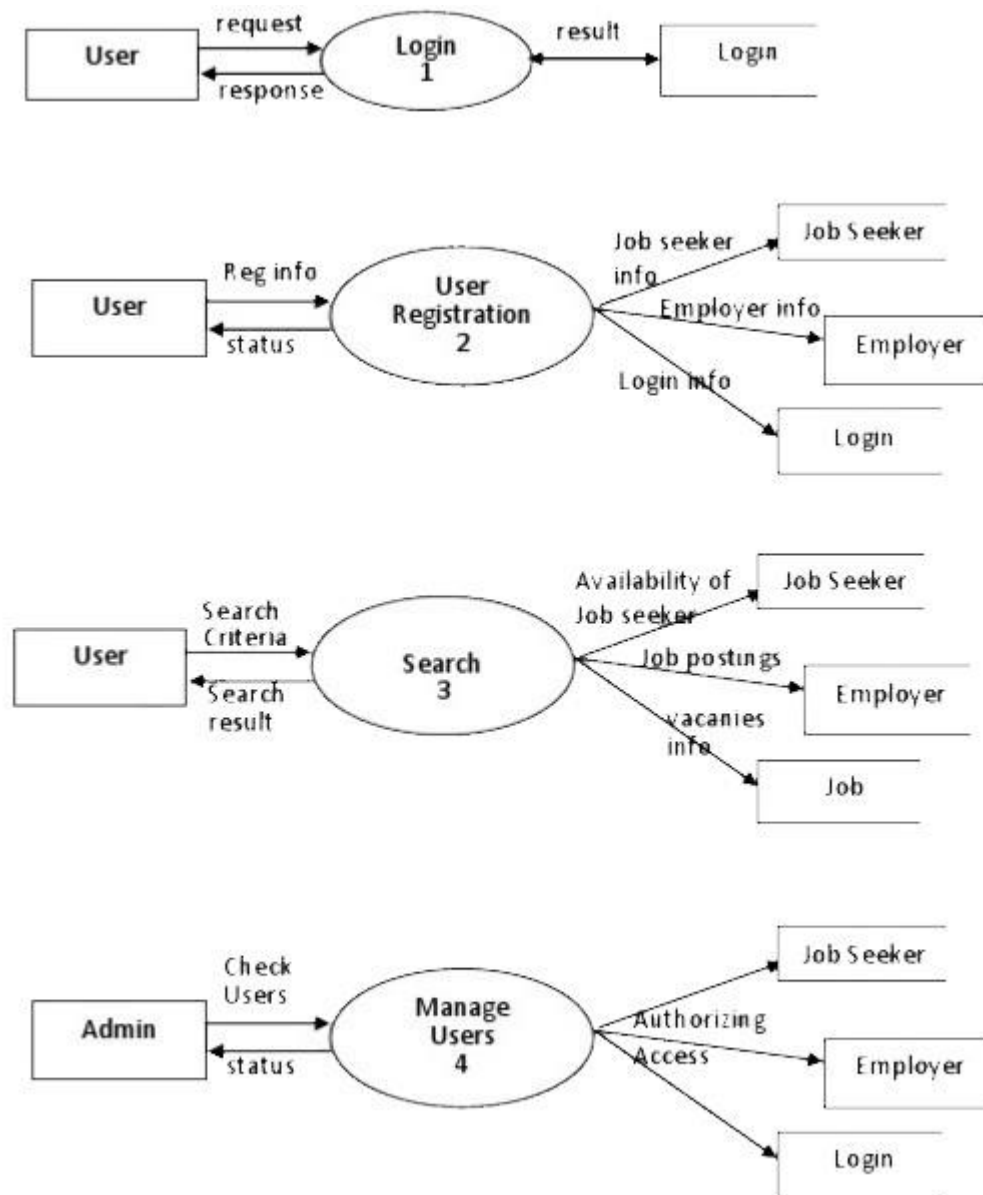
LEVEL-0:SYSTEM INPUT/OUTPUT LEVEL

A level-0 DFD describes the system-wide boundaries, dealing inputs to and outputs from the system and major processes. This diagram is similar to the combined user-level context diagram.



LEVEL-1: SUBSYSTEM LEVEL DATA FLOW

A level-1 DFD describes the next level of details within the system, detailing the data flows between subsystems, which makeup the whole.


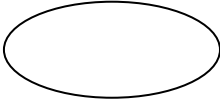
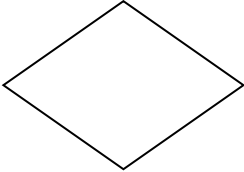



4.7 ER Diagram

ENTITY-RELATIONSHIP Diagrams

E-R (Entity-Relationship) Diagram is used to represents the relationship between entities in the table.

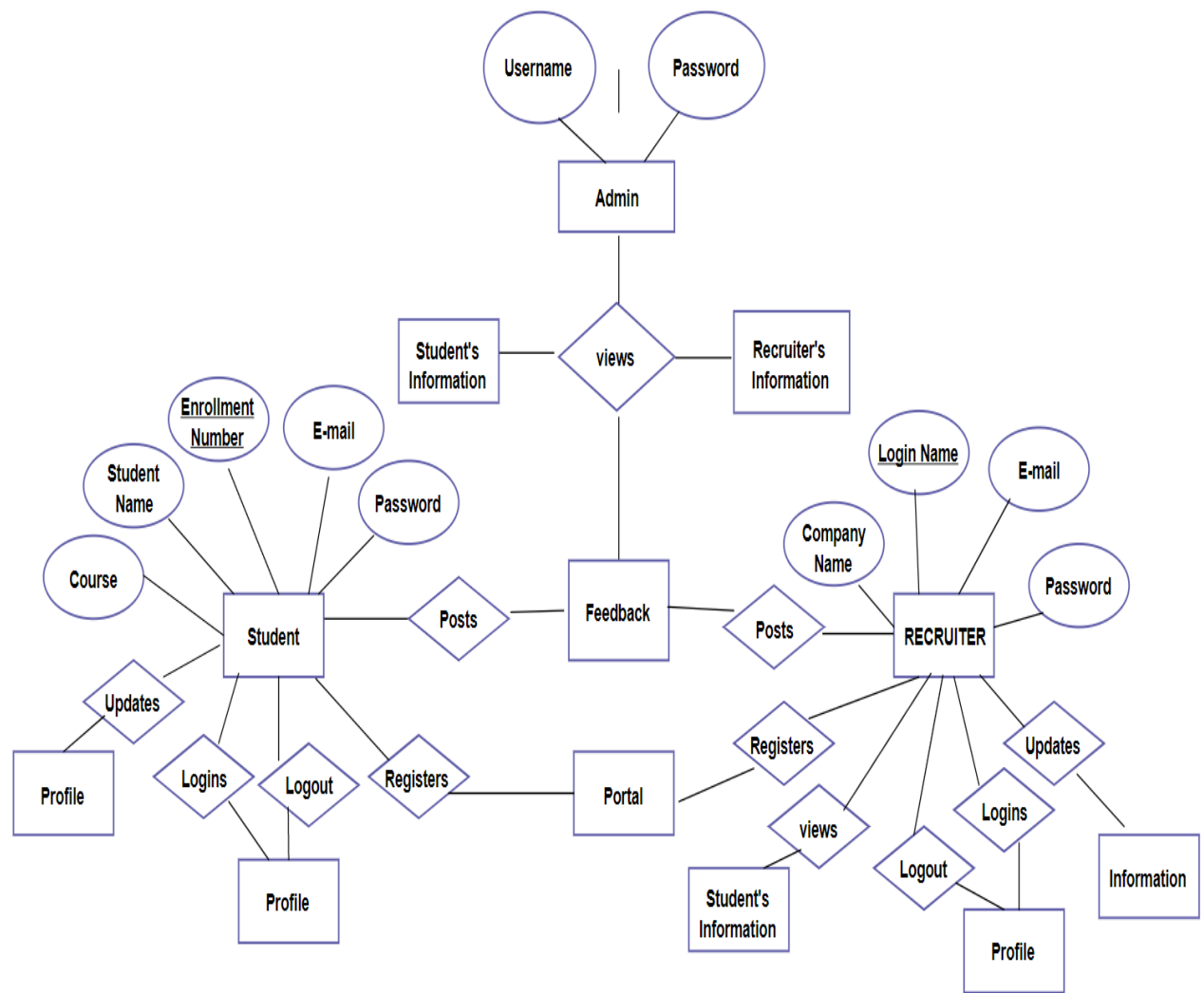
The symbols used in E-R diagrams are:

<u>SYMBOL</u>	PURPOSE
	Represents Entity sets.
	Represent attributes.
	Represent Relationship Sets.
	Line represents flow

Structured analysis is a set of tools and techniques that the analyst.

To develop a new kind of a system:

The traditional approach focuses on the cost benefit and feasibility analysis, Project management, and hardware and software selection a personal consideration.



5. DATABASE DESIGN

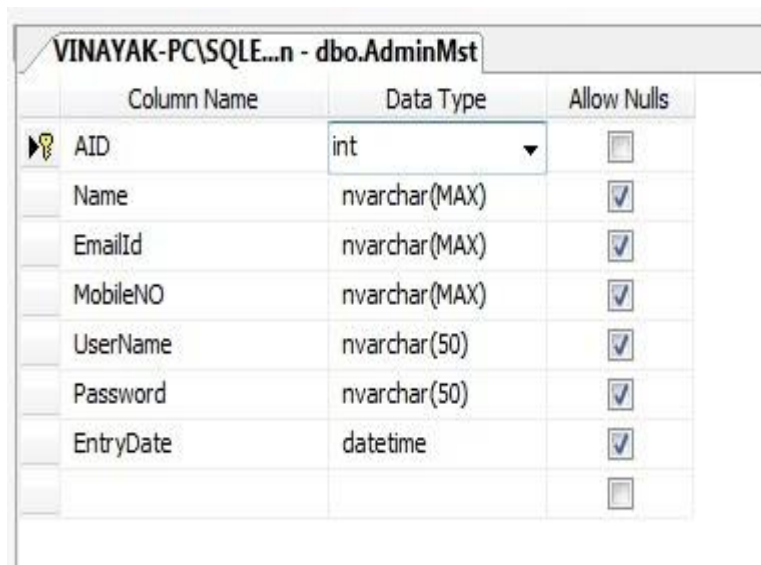
DATABASE DESIGN

The data in the system has to be stored and retrieved from database. Designing the database is part of system design. Data elements and data structures to be stored have been identified at analysis stage. They are structured and put together to design the data storage and retrieval system.

A database is a collection of interrelated data stored with minimum redundancy to serve many users quickly and efficiently. The general objective is to make database access easy, quick, inexpensive and flexible for the user. Relationships are established between the data items and unnecessary data items are removed. Normalization is done to get an internal consistency of data and to have minimum redundancy and maximum stability. This ensures minimizing data storage required, minimizing chances of data inconsistencies and optimizing for updates. The MS Access database has been chosen for developing the relevant databases.

Online Job Portal Project contains 3 MySQL tables :


Admin Table: This table store the login and personal details of admin.




The screenshot displays the 'Structure' view of the 'AdminMst' table in a SQL Server database. The table is located in the 'dbo' schema. The columns and their properties are as follows:

Column Name	Data Type	Allow Nulls
AID	int	<input type="checkbox"/>
Name	nvarchar(MAX)	<input checked="" type="checkbox"/>
EmailId	nvarchar(MAX)	<input checked="" type="checkbox"/>
MobileNO	nvarchar(MAX)	<input checked="" type="checkbox"/>
UserName	nvarchar(50)	<input checked="" type="checkbox"/>
Password	nvarchar(50)	<input checked="" type="checkbox"/>
EntryDate	datetime	<input checked="" type="checkbox"/>
		<input type="checkbox"/>


User table` : This table store the job seeker personal and address detail.

VINAYAK-PC\SQL...- dbo.StudentMst		
Column Name	Data Type	Allow Nulls
 Sid	int	<input type="checkbox"/>
EnrollNo	nvarchar(MAX)	<input checked="" type="checkbox"/>
FName	nvarchar(256)	<input checked="" type="checkbox"/>
LName	nvarchar(256)	<input checked="" type="checkbox"/>
Address	nvarchar(MAX)	<input checked="" type="checkbox"/>
City	nchar(256)	<input checked="" type="checkbox"/>
State	nchar(256)	<input checked="" type="checkbox"/>
PinCode	nvarchar(50)	<input checked="" type="checkbox"/>
Dob	datetime	<input checked="" type="checkbox"/>
Gender	nchar(10)	<input checked="" type="checkbox"/>
MobileNo	nvarchar(MAX)	<input checked="" type="checkbox"/>
EmailId	nvarchar(MAX)	<input checked="" type="checkbox"/>
SUName	nvarchar(256)	<input checked="" type="checkbox"/>
Password	nvarchar(256)	<input checked="" type="checkbox"/>
[Entry Date]	datetime	<input checked="" type="checkbox"/>
		<input type="checkbox"/>


Education: This table store the education information of job seeker.

VINAYAK-PC\SQL...dbo.EducationMst		
Column Name	Data Type	Allow Nulls
 Id	int	<input type="checkbox"/>
SID	int	<input checked="" type="checkbox"/>
CollegeName	nvarchar(MAX)	<input checked="" type="checkbox"/>
EnrollNo	nvarchar(MAX)	<input checked="" type="checkbox"/>
semester	nvarchar(50)	<input checked="" type="checkbox"/>
Education	nvarchar(50)	<input checked="" type="checkbox"/>
Branch	nvarchar(50)	<input checked="" type="checkbox"/>
PassYear	nvarchar(50)	<input checked="" type="checkbox"/>
CPI	float	<input checked="" type="checkbox"/>
CGPA	float	<input checked="" type="checkbox"/>
Skill	nvarchar(500)	<input checked="" type="checkbox"/>
ExtraSkill	nvarchar(MAX)	<input checked="" type="checkbox"/>
Resume	nvarchar(500)	<input checked="" type="checkbox"/>
EntryDate	datetime	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

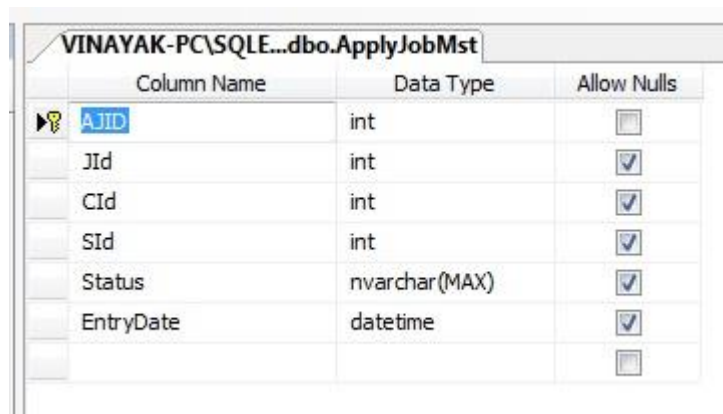
Company: This table store the personal information about company.


VINAYAK-PC\SQL...- dbo.CompanyMst			
	Column Name	Data Type	Allow Nulls
	CID	int	<input type="checkbox"/>
	CName	nvarchar(50)	<input checked="" type="checkbox"/>
	Address	nvarchar(50)	<input checked="" type="checkbox"/>
	City	nchar(10)	<input checked="" type="checkbox"/>
	State	nchar(10)	<input checked="" type="checkbox"/>
	PinCode	nvarchar(50)	<input checked="" type="checkbox"/>
	Contact_Person	nvarchar(50)	<input checked="" type="checkbox"/>
	MobileNo	nvarchar(50)	<input checked="" type="checkbox"/>
	Contact_No	nvarchar(50)	<input checked="" type="checkbox"/>
	EmailId	nvarchar(50)	<input checked="" type="checkbox"/>
	Website	nvarchar(50)	<input checked="" type="checkbox"/>
	UName	nvarchar(50)	<input checked="" type="checkbox"/>
	Password	nvarchar(50)	<input checked="" type="checkbox"/>
	EntryDate	datetime	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Post Job: This Sql table store the posted job detail of company.

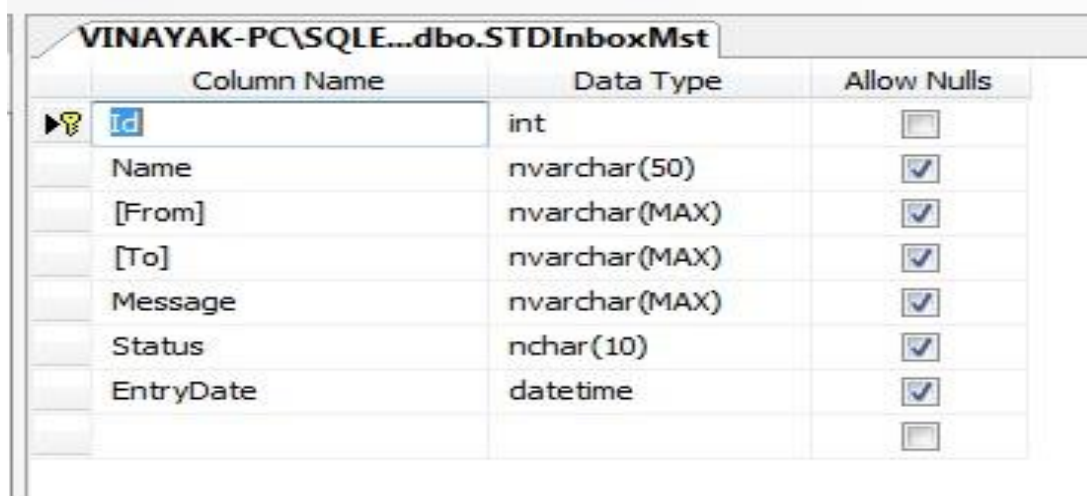
VINAYAK-PC\SQL...- dbo.AddJobMst			
	Column Name	Data Type	Allow Nulls
	JobId	int	<input type="checkbox"/>
	CID	int	<input type="checkbox"/>
	Company_Name	nvarchar(50)	<input checked="" type="checkbox"/>
	JobCategory	nvarchar(50)	<input checked="" type="checkbox"/>
	RequiredSkill	nvarchar(50)	<input checked="" type="checkbox"/>
	Role	nvarchar(50)	<input checked="" type="checkbox"/>
	Min_Qualification	nvarchar(50)	<input checked="" type="checkbox"/>
	Extra_Skill	nvarchar(50)	<input checked="" type="checkbox"/>
	Max_Age	int	<input checked="" type="checkbox"/>
	ExpectedSalary	nvarchar(50)	<input checked="" type="checkbox"/>
	JobLocaton	nvarchar(50)	<input checked="" type="checkbox"/>
	Working_hour	nvarchar(50)	<input checked="" type="checkbox"/>
	JobDescription	nvarchar(50)	<input checked="" type="checkbox"/>
	Last_ApplyDate	datetime	<input checked="" type="checkbox"/>
	EntryDate	datetime	<input checked="" type="checkbox"/>
			<input type="checkbox"/>


Apply Job: This table store information about which student apply in which company job



Column Name	Data Type	Allow Nulls
 AJID	int	<input type="checkbox"/>
JId	int	<input checked="" type="checkbox"/>
CId	int	<input checked="" type="checkbox"/>
SId	int	<input checked="" type="checkbox"/>
Status	nvarchar(MAX)	<input checked="" type="checkbox"/>
EntryDate	datetime	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Inbox: This sql table used to store student and company messages.



Column Name	Data Type	Allow Nulls
 Id	int	<input type="checkbox"/>
Name	nvarchar(50)	<input checked="" type="checkbox"/>
[From]	nvarchar(MAX)	<input checked="" type="checkbox"/>
[To]	nvarchar(MAX)	<input checked="" type="checkbox"/>
Message	nvarchar(MAX)	<input checked="" type="checkbox"/>
Status	nchar(10)	<input checked="" type="checkbox"/>
EntryDate	datetime	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

6. IMPLEMENTATION

6.1 Introduction:

Implementation is the stage of the project when the theoretical design is turned out into a working system. Thus, it can be considered to be the most critical stage in achieving a successful new system and in giving the user, confidence that the new system will work and be effective.

The implementation stage involves careful planning, investigation of the existing system and its constraints on implementation, designing of methods to achieve changeover and evaluation of changeover methods.

6.2 Sample code:

6.2.1 Home Page Index

```
<html><head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <title>Job Portal</title>
  <!-- Tell the browser to be responsive to screen width -->
  <meta content="width=device-width, initial-scale=1, maximum-scale=1, user-scalable=no"
name="viewport">
  <!-- Bootstrap 3.3.7 -->
  <link          rel="stylesheet"          href="https://cdnjs.cloudflare.com/ajax/libs/twitter-
bootstrap/3.3.7/css/bootstrap.min.css">
  <!-- Font Awesome -->
  <link          rel="stylesheet"          href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">
  <!-- Icons -->
  <link                                     rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/ionicons/2.0.1/css/ionicons.min.css">
  <!-- Theme style -->
  <link rel="stylesheet" href="css/AdminLTE.min.css">
  <link rel="stylesheet" href="css/_all-skins.min.css">
  <!-- Custom -->
```



```
<link rel="stylesheet" href="css/custom.css">
```

```
<!-- Google Font -->
```

```
<link rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,600,700,300italic,400italic,600italic">
</head>
```

```
<body class="hold-transition skin-green sidebar-mini" data-new-gr-c-s-check-
loaded="14.1026.0" data-gr-ext-installed="">
```

```
<div class="wrapper">
```

```
<header class="main-header">
```

```
<!-- Logo -->
```

```
<a href="index.php" class="logo navbar-fixed-top" style="background:#007399 ">
```

```
<span class="logo-lg"><b>Job</b> Portals</span>
```

```
</a>
```

```
<!-- Header Navbar: style can be found in header.less -->
```

```
<nav class="navbar navbar-fixed-top" style="background-color: #007399">
```

```
<!-- Navbar Right Menu -->
```

```
<div class="navbar-custom-menu">
```

```
<ul class="nav navbar-nav">
```

```
<li>
```

```
<a href="jobs.php">Jobs</a>
```

```
</li>
```

```
<li>
```

```
<a href="experience.php">Experience</a>
```

```
</li>
```

```
<li>
```

```
<a href="#about">About Us</a>
```

```
</li>
```

```
        <li>
            <a href="company/index.php">Dashboard</a>
        </li>

        <li>
            <a href="logout.php">Logout</a>
        </li>

        <li>
            <a href="admin/index.php">Admin</a>
        </li>
    </ul>
</div>
</nav>
</header>
```

```
<!-- Content Wrapper. Contains page content -->
```

```
<div class="content-wrapper" style="margin-left: 0px;">
```

```
    <section class="content-header bg-main">
```

```
        <div class="container">
```

```
            <div class="row">
```

```
                <div class="col-md-12 text-center index-head">
```

```
                    <h1>Find <strong>Jobs</strong> Here</h1>
```

```
                    <p>with one click!</p>
```

```
                    <p><a class="btn btn-success btn-lg" href="jobs.php" role="button">Search
```

```
Jobs</a></p>
```

```
                </div>
```

```
            </div>
```

```
        </div>
```

```
    </section>
```

```
    <section id="statistics" class="content-header">
```

```
        <div class="container">
```

```
            <div class="row">
```

```
                <div class="col-md-12 text-center latest-job margin-bottom-20">
```

```
                    <h1>Our Statistics</h1>
```

```
                </div>
```

```
</div>
<div class="row">
  <div class="col-lg-3 col-xs-6">
    <!-- small box -->
    <div class="small-box bg-aqua">
      <div class="inner">
        <h3>6</h3>

        <p>Job Offers</p>
      </div>
      <div class="icon">
        <i class="ion ion-ios-paper"></i>
      </div>
    </div>
  </div>
  <!-- ./col -->
  <div class="col-lg-3 col-xs-6">
    <!-- small box -->
    <div class="small-box bg-green">
      <div class="inner">
        <h3>3</h3>

        <p>Registered Company</p>
      </div>
      <div class="icon">
        <i class="ion ion-briefcase"></i>
      </div>
    </div>
  </div>
  <!-- ./col -->
  <div class="col-lg-3 col-xs-6">
    <!-- small box -->
    <div class="small-box bg-yellow">
      <div class="inner">
        <h3>7</h3>

        <p>CV'S/Resume</p>
```

```

        </div>
        <div class="icon">
            <i class="ion ion-ios-list"></i>
        </div>
    </div>
</div>
<!-- ./col -->
<div class="col-lg-3 col-xs-6">
    <!-- small box -->
    <div class="small-box bg-red">
        <div class="inner">
            <h3>6</h3>

            <p>Daily Users</p>
        </div>
        <div class="icon">
            <i class="ion ion-person-stalker"></i>
        </div>
    </div>
</div>
<!-- ./col -->
</div>
</div>
</section>

<section id="about" class="content-header">
    <div class="container">
        <div class="row">
            <div class="col-md-12 text-center latest-job margin-bottom-20">
                <h1>About US</h1>
            </div>
        </div>
        <div class="row">
            <div class="col-md-6">
                
            </div>
        </div>
    </div>
</section>

```

```
</div>
```

```
<div class="col-md-6 about-text margin-bottom-20">
```

```
<p>This website can be used as an Online Job Portal for the individuals who
are seeking for a job. Job Seeker log into the system and he/she can upload their information in
the form of a CV. Visitors/Company representatives logging in may also access/search any
information put up by Job Seeker.</p>
```

```
<p>It also provides job seekers to submit their CV and apply for job post and
Employee can select best employees from available CVs based on their requirements.
```

```
</p>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</section>
```

```
</div>
```

```
<!-- /.content-wrapper -->
```

```
<div class="control-sidebar-bg"></div>
```

```
</div>
```

```
<!-- ./wrapper -->
```

```
<!-- jQuery 3 -->
```

```
<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
```

```
<!-- Bootstrap 3.3.7 -->
```

```
<script src="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/3.3.7/js/bootstrap.min.js"></script>
```

```
<!-- AdminLTE App -->
```

```
<script src="js/adminlte.min.js"></script>
```

```
</body><grammarly-desktop-integration data-grammarly-shadow-root="true"></grammarly-
desktop-integration></html>
```

6.2.2 Admin Index

```
<html><head>

  <meta charset="utf-8">

  <meta http-equiv="X-UA-Compatible" content="IE=edge">

  <title>Job Portal</title>

  <!-- Tell the browser to be responsive to screen width -->

  <meta content="width=device-width, initial-scale=1, maximum-scale=1, user-scalable=no"
name="viewport">

  <!-- Bootstrap 3.3.7 -->

  <link          rel="stylesheet"          href="https://cdnjs.cloudflare.com/ajax/libs/twitter-
bootstrap/3.3.7/css/bootstrap.min.css">

  <!-- Font Awesome -->

  <link          rel="stylesheet"          href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">

  <!-- Icons -->

  <link                                     rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/ionicons/2.0.1/css/ionicons.min.css">

  <!-- Theme style -->

  <link rel="stylesheet" href="../../css/AdminLTE.min.css">

  <link rel="stylesheet" href="../../css/_all-skins.min.css">

  <!-- Custom -->

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

  <!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media queries -->

  <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->

  <!--[if lt IE 9]>

  <script src="https://oss.maxcdn.com/html5shiv/3.7.3/html5shiv.min.js"></script>

  <script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>

  <![endif]-->

  <!-- Google Font -->

  <link                                     rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,600,700,300italic,4
00italic,600italic">

</head>

<body    class="hold-transition    skin-green    sidebar-mini"    data-new-gr-c-s-check-
loaded="14.1026.0" data-gr-ext-installed="">

  <div class="wrapper">
```

```
<header class="main-header">
```

```
<a href="index.php" class="logo navbar-fixed-top " style="background:#007399 ">
```

```
<span class="logo-lg"><b>Job</b> Portal</span>
```

```
</a>
```

```
<!-- Header Navbar: style can be found in header.less -->
```

```
<nav class="navbar navbar-fixed-top" style="background-color: #007399">
```

```
<!-- Navbar Right Menu -->
```

```
<div class="navbar-custom-menu">
```

```
<ul class="nav navbar-nav">
```

```
</ul>
```

```
</div>
```

```
</nav>
```

```
</header>
```

```
<!-- Content Wrapper. Contains page content -->
```

```
<div class="content-wrapper margin-top-50" style="margin-left: 0px;">
```

```
<section id="candidates" class="content-header">
```

```
<div class="container">
```

```
<div class="row">
```

```
<div class="col-md-3">
```

```
<div class="box box-solid">
```

```
<div class="box-header with-border">
```

```
<h3 class="box-title">Welcome <b>Admin</b></h3>
```

```
</div>
```

```
<div class="box-body no-padding">
```

```
<ul class="nav nav-pills nav-stacked">
```

```
<li class="active"><a href="dashboard.php"><i class="fa fa-  
dashboard"></i> Dashboard</a></li>
```

```
<li><a href="active-jobs.php"><i class="fa fa-briefcase"></i> Active
```

Jobs

<i class="fa fa-address-card-o"></i>

Candidates

<i class="fa fa-building"></i>

Companies

<i class="fa fa-arrow-circle-o-

right"></i> View Experience

<i class="fa fa-arrow-circle-o-right"></i>

Logout

</div>

</div>

</div>

<div class="col-md-9 bg-white padding-2">

<h3>Job Portal Statistics</h3>

<div class="row">

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

<div class="info-box bg-c-yellow">

<i class="ion ion-briefcase"></i>

<div class="info-box-content">

Active Company

Registered

<span class="info-box-

number">3

</div>

</div>

</div>

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

<div class="info-box bg-c-yellow">

<i class="ion ion-briefcase"></i>

<div class="info-box-content">


```

        <span
            class="info-box-text">Pending
            Company
Approval</span>

        <span
            class="info-box-
number">0</span>

        </div>
    </a>
</div>
</div>
<div class="col-md-6">
    <div class="info-box bg-c-yellow">
        <a href="registered-candidates.php">
            <span class="info-box-icon bg-green"><i class="ion ion-person-
stalker"></i></span>

            <div class="info-box-content">
                <span class="info-box-text">Registered Candidates</span>

                <span
                    class="info-box-
number">6</span>

            </div>
        </a>
    </div>
</div>
<div class="col-md-6">
    <div class="info-box bg-c-yellow">
        <a href="pending-candidates.php">
            <span class="info-box-icon bg-green"><i class="ion ion-person-
stalker"></i></span>

            <div class="info-box-content">
                <span class="info-box-text">Pending Candidates </span>

                <span
                    class="info-box-
number">1</span>

            </div>
        </a>
    </div>
</div>
</div>
<div class="col-md-6">
    <div class="info-box bg-c-yellow">
        <a href="active-jobs.php">

```



```

</div>
<!-- ./wrapper -->

<!-- jQuery 3 -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
<!-- Bootstrap 3.3.7 -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/3.3.7/js/bootstrap.min.js"></script>
<!-- AdminLTE App -->
<script src="../js/adminlte.min.js"></script>

</body><grammarly-desktop-integration data-grammarly-shadow-root="true"></grammarly-desktop-integration></html>

```

6.2.2 Company Index

```

<html><head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<title>Job Portal</title>
<!-- Tell the browser to be responsive to screen width -->
<meta content="width=device-width, initial-scale=1, maximum-scale=1, user-scalable=no"
name="viewport">
<!-- Bootstrap 3.3.7 -->
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/3.3.7/css/bootstrap.min.css">
<!-- Font Awesome -->
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
<!-- Ionicons -->
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/ionicons/2.0.1/css/ionicons.min.css">
<!-- Theme style -->
<link rel="stylesheet" href="../css/AdminLTE.min.css">
<link rel="stylesheet" href="../css/_all-skins.min.css">

```

```
<!-- Custom -->
<link rel="stylesheet" href="../../css/custom.css">
<!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media queries -->
<!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
<!--[if lt IE 9]>
<script src="https://oss.maxcdn.com/html5shiv/3.7.3/html5shiv.min.js"></script>
<script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
<![endif]-->

<!-- Google Font -->
<link rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,600,700,300italic,400italic,600italic">
</head>
<body class="hold-transition skin-green sidebar-mini" data-new-gr-c-s-check-loaded="14.1026.0" data-gr-ext-installed="">
<div class="wrapper">

<header class="main-header">

<a href="index.php" class="logo navbar-fixed-top" style="background:#007399 ">

    <span class="logo-lg"><b>Job</b> Portal</span>

</a>

<!-- Header Navbar: style can be found in header.less -->
<nav class="navbar navbar-fixed-top" style="background-color: #007399">
    <!-- Navbar Right Menu -->
    <!-- Navbar Right Menu -->
    <div class="navbar-custom-menu">
        <ul class="nav navbar-nav">

        </ul>
    </div>
</nav>
```

```
</header>
```

```
<!-- Content Wrapper. Contains page content -->
```

```
<div class="content-wrapper margin-top-50" style="margin-left: 0px;">
```

```
<section id="candidates" class="content-header">
```

```
<div class="container">
```

```
<div class="row">
```

```
<div class="col-md-3">
```

```
<div class="box box-solid">
```

```
<div class="box-header with-border">
```

```
<h3 class="box-title">Welcome <b>Amazon</b></h3>
```

```
</div>
```

```
<div class="box-body no-padding">
```

```
<ul class="nav nav-pills nav-stacked">
```

```
<li class="active"><a href="index.php"><i class="fa fa-dashboard"></i>
```

```
Dashboard</a></li>
```

```
<li><a href="edit-company.php"><i class="fa fa-tv"></i> My
```

```
Company</a></li>
```

```
<li><a href="create-job-post.php"><i class="fa fa-file-o"></i> Create Job
```

```
Post</a></li>
```

```
<li><a href="my-job-post.php"><i class="fa fa-file-o"></i> My Job
```

```
Post</a></li>
```

```
<li><a href="job-applications.php"><i class="fa fa-file-o"></i> Job
```

```
Application</a></li>
```

```
<li><a href="mailbox.php"><i class="fa fa-envelope"></i>
```

```
Mailbox</a></li>
```

```
<li><a href="settings.php"><i class="fa fa-gear"></i> Settings</a></li>
```

```
<li><a href="resume-database.php"><i class="fa fa-user"></i> Resume
```

```
Database</a></li>
```

```
<li><a href="experience.php"><i class="fa fa-arrow-circle-o-right"></i>
```

```
View Experience</a></li>
```

```
<li><a href="..logout.php"><i class="fa fa-arrow-circle-o-right"></i>
```

```
Logout</a></li>
```

```
</ul>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="col-md-9 bg-white padding">
```

```
<h3>Overview</h3>
```

```
<hr>
```

```
<div class="row">
```

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

```
<a href="my-job-post.php">
```

```
<div class="info-box bg-c-yellow">
```

```
<span class="info-box-icon bg-red"><i class="ion ion-ios-people-  
outline"></i></span>
```

```
<div class="info-box-content ">
```

```
<span class="info-box-text">Job Posted</span>
```

```
<span class="info-box-number">3</span>
```

```
</div>
```

```
</div>
```

```
</a>
```

```
</div>
```

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

```
<a href="job-applications.php">
```

```
<div class="info-box bg-c-yellow">
```

```
<span class="info-box-icon bg-green"><i class="ion ion-ios-  
browsers"></i></span>
```

```
<div class="info-box-content">
```

```
<span class="info-box-text">Application For Portal</span>
```

```
<span class="info-box-number">1</span>
```

```
</div>
```

```
</div>
```

```
</a></div><a href="job-applications.php">
```

```
</a>
```

</div>

</div>

</div>

</div>

</section>

</div>

<!-- /.content-wrapper -->

</div>

<!-- ./wrapper -->

<!-- jQuery 3 -->

<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>

<!-- Bootstrap 3.3.7 -->

<script src="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/3.3.7/js/bootstrap.min.js"></script>

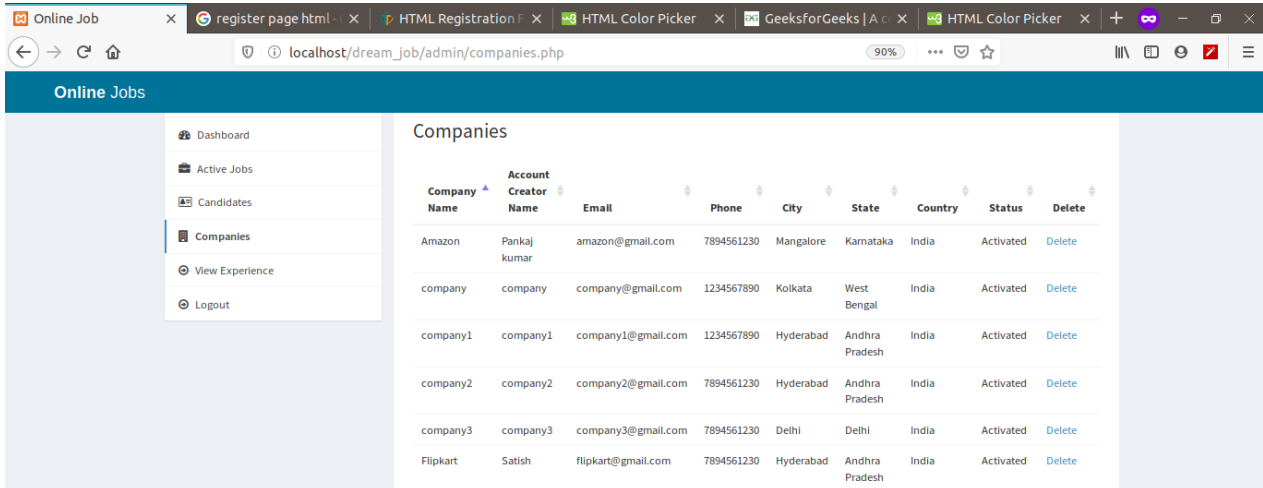
<!-- AdminLTE App -->

<script src="../js/adminlte.min.js"></script>

</body><grammarly-desktop-integration data-grammarly-shadow-root="true"></grammarly-desktop-integration></html>

6.1 SAMPLE SCREENSHOT

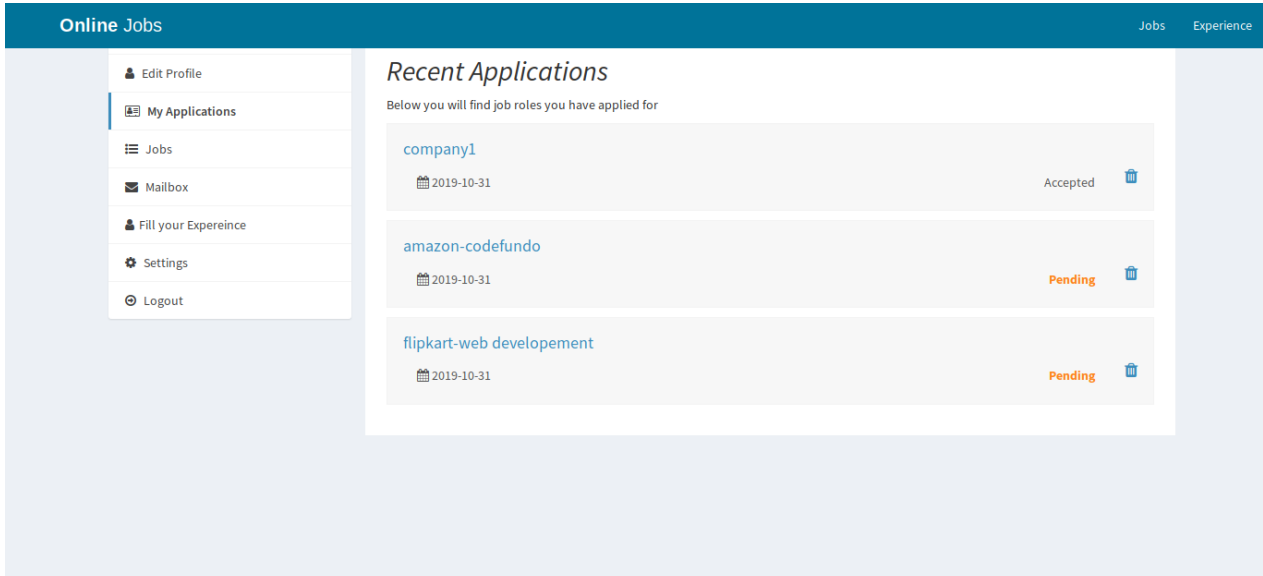
Admin Page



The screenshot shows the Admin Page of the Online Job Portal. The browser address bar indicates the URL is `localhost/dream_job/admin/companies.php`. The page has a sidebar with navigation options: Dashboard, Active Jobs, Candidates, Companies (selected), View Experience, and Logout. The main content area is titled "Companies" and displays a table of registered companies.

Company Name	Account Creator Name	Email	Phone	City	State	Country	Status	Delete
Amazon	Pankaj kumar	amazon@gmail.com	7894561230	Mangalore	Karnataka	India	Activated	Delete
company	company	company@gmail.com	1234567890	Kolkata	West Bengal	India	Activated	Delete
company1	company1	company1@gmail.com	1234567890	Hyderabad	Andhra Pradesh	India	Activated	Delete
company2	company2	company2@gmail.com	7894561230	Hyderabad	Andhra Pradesh	India	Activated	Delete
company3	company3	company3@gmail.com	7894561230	Delhi	Delhi	India	Activated	Delete
Flipkart	Satish	flipkart@gmail.com	7894561230	Hyderabad	Andhra Pradesh	India	Activated	Delete

Applied jobs



The screenshot shows the "Applied jobs" page of the Online Job Portal. The browser address bar indicates the URL is `localhost/dream_job/admin/companies.php`. The page has a sidebar with navigation options: Edit Profile, My Applications (selected), Jobs, Mailbox, Fill your Experience, Settings, and Logout. The main content area is titled "Recent Applications" and displays a list of job roles applied for.

Below you will find job roles you have applied for

Company Name	Applied Date	Status	Action
company1	2019-10-31	Accepted	Delete
amazon-codefundo	2019-10-31	Pending	Delete
flipkart-web development	2019-10-31	Pending	Delete

Company Register

Online Jobs

JobsLoginSign Up

CREATE COMPANY PROFILE

Full Name

Company Name

Website

Email

Brief info about your company

Password *

Confirm Password *

Phone Number

Select Country

Attach Company Logo

Browse...

No file selected.

☐ accept terms & conditions

Register

Create Job Post

Online Jobs

Dashboard

My Company

Create Job Post

My Job Post

Job Application

Mailbox

Settings

Resume Database

View Experience

Logout

Create Job Post

Job Title

Minimum Salary

Maximum Salary

Experience (in Years) Required

Qualification Required

Create

Edit Company

Online Jobs

Dashboard

My Company

Create Job Post

My Job Post

Job Application

Mailbox

Settings

Resume Database

View Experience

Logout

My Company

In this section you can change your company details

Company Name

Amazon

Contact Number

7894561230

Website

www.amazon.com

City

Mangalore

Email address

amazon@gmail.com

State

Karnataka


About Me

sd

Change Company Logo

Browse...

No file selected.



Update Company Profile

Edit Profile

Online Jobs

Jobs Experience

Edit Profile

My Applications

Jobs

Mailbox

Fill your Experience

Settings

Logout

Edit Profile

First Name

satish

Last Name

LKSD

Email address

adsatish47@gmail.com

Address

awef

City

arf

State

arfearf

Contact Number

7894561230

Highest Qualification

btech

Stream

rem

Skills

aefn

About Me

sfdklmsf

Upload/Change Resume

Browse...

No file selected.

Update Profile

Job List

Online Jobs

Dashboard

My Company

Create Job Post

My Job Post

Job Application

Mailbox

Settings

Resume Database

View Experience

Logout

My Job Posts

In this section you can view all job posts created by you.

Job Title	View	Delete
amazon-codefundo	View	Delete
amazon-databse-manager	View	Delete

Showing 1 to 2 of 2 entries
[Previous](#)[Next](#)

Job Statistics

Online Job

register page.html

HTML Registration F

HTML Color Picker

GeeksforGeeks | A C

HTML Color Picker

localhost/dream_job/admin/dashboard.php

Online Jobs

Dashboard

Active Jobs







Candidates

Companies

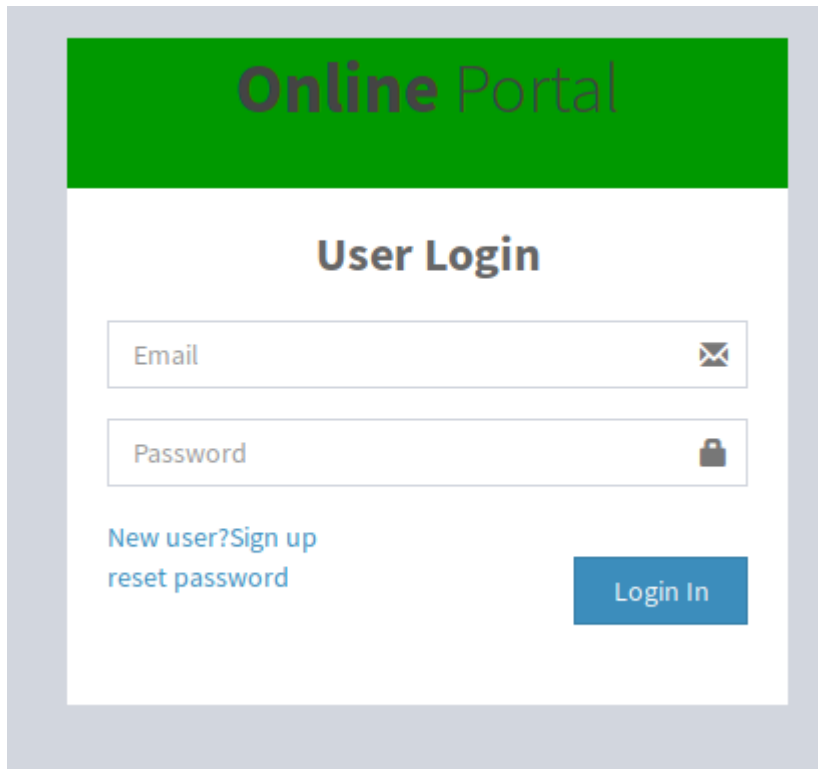
View Experience

Logout

Online Job Statistics

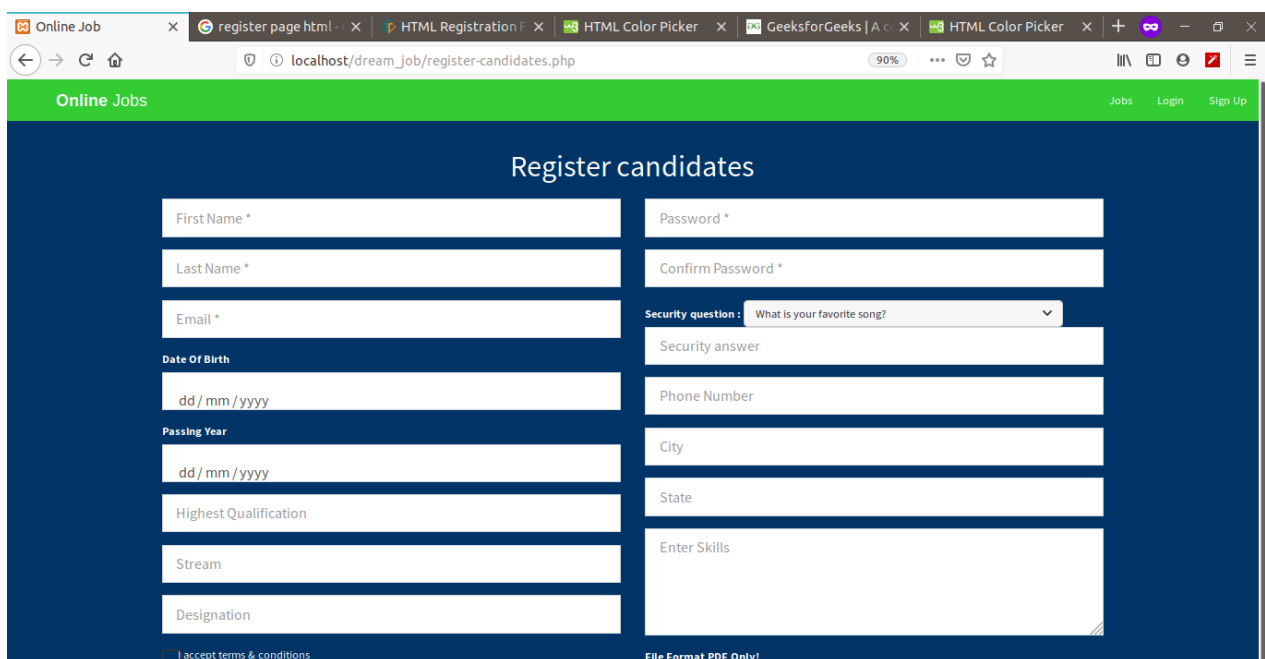
	ACTIVE COMPANY REGISTERED 6		PENDING COMPANY APPROVAL 0
	REGISTERED CANDIDATES 15		PENDING CANDIDATES CONFIRMATION 0
	TOTAL JOB POSTS 8		TOTAL APPLICATIONS 5

Login



A mockup of a user login form. It features a green header with the text "Online Portal". Below the header, the title "User Login" is centered. The form contains two input fields: "Email" with an envelope icon and "Password" with a lock icon. Below the password field, there are links for "New user? Sign up" and "reset password". A blue "Login In" button is positioned to the right of these links.

Register



A screenshot of a web browser displaying a registration form titled "Register candidates". The browser's address bar shows the URL "localhost/dream_job/register-candidates.php". The form is set against a dark blue background with white input fields. It includes fields for "First Name *", "Last Name *", "Email *", "Date Of Birth" (with a date format "dd/mm/yyyy"), "Passing Year" (with a date format "dd/mm/yyyy"), "Highest Qualification", "Stream", "Designation", "Password *", "Confirm Password *", "Security question" (with a dropdown menu showing "What is your favorite song?"), "Security answer", "Phone Number", "City", "State", and "Enter Skills". At the bottom left, there is a checkbox for "I accept terms & conditions". At the bottom right, it says "File Format PDF Only!". The browser's top bar shows several open tabs, including "Online Job", "register page.html", "HTML Registration F", "HTML Color Picker", and "GeeksforGeeks".

Review the job

Online Jobs

- Dashboard
- My Company
- Create Job Post
- My Job Post
- Job Application
- Mailbox
- Settings
- Resume Database
- View Experience
- Logout

satish LKSD

Back

Email: adsatish47@gmail.com

City: arf

Download Resume

Accept Application

Reject Application

Search the job

Online Job

Login Sign Up

Filters

City

Experience


Companies

Sort By Salary

Latest Jobs

Search job


Go!



company1

company1 | Hyderabad | Experience 3 Years


\$12222/Month



amazon-codefundo

Amazon | Mangalore | Experience 2 Years


\$80000/Month



amazon-databse-manager

Amazon | Mangalore | Experience 3 Years

\$60000/Month



shopping databse management

Flipkart | Hyderabad | Experience 3 Years

\$80000/Month

localhost/dream_job/index.php

Sort by

Company Logo	Company Name	Location	Experience	Salary
	company1	Hyderabad	Experience 3 Years	\$12222/Month
	amazon-codefundo	Mangalore	Experience 2 Years	\$80000/Month
	amazon-database-manager	Mangalore	Experience 3 Years	\$60000/Month
	shopping database management	Hyderabad	Experience 3 Years	\$80000/Month

Welcome 2

About US

This website can be used as an Online Job Portal for the individuals who are seeking for a job. Job Seeker log into the system and he/she can upload their information in the form of a CV. Visitors/Company representatives logging in may also access/search any information put up by Job Seeker.

It also provides job seekers to submit their CV and apply for job post and Employee can select best employees from available CVs based on their requirements.

7.TESTING AND REPORT

7.1 INTRODUCTION TO SYSTEM TESTING:

The purpose of testing is to discover errors. Testing is the process of trying to discover 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 its requirements and user expectations and does not fail in an unacceptable manner. There are various types of tests. Each test type addresses a specific testing requirement.

7.2 TYPES OF TESTING:

7.2.1 Unit testing:

Unit testing involves the design of test cases that validate that 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 process, application, and/or system configuration. Unit tests ensure that each unique path of a business process performs accurately to the documented specifications and contains clearly defined inputs and expected results.

7.2.2 Integration testing:

Integration tests are designed to test integrated software components to determine if they actually 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 satisfactory, as shown by successfully unit testing, the combination of components is correct and consistent. Integration testing is specifically aimed at exposing the problems that arise from the combination of components.

7.2.3 Functional test:

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 centered 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.

Systems/Procedures : interfacing systems or procedures must be invoked.

Organization and preparation of functional tests is focused on requirements, key functions, or special test cases. In addition, systematic coverage pertaining to identify Business process flows; data fields, predefined processes, and successive processes must be considered for testing. Before functional testing is complete, additional tests are identified and the effective value of current tests is determined.

7.2.4 System Test:

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.

7.2.5 White Box Testing:

White Box Testing is a testing 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.

7.2.6 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, such as specification or requirements document. It is a testing in which the software under test is treated, as a black box. you cannot “see” into it. The test provides inputs and responds to outputs without considering how the software works.

7.2.7 Unit Testing:

Unit testing is usually conducted as part of a combined code and unit test phase of the software lifecycle, although it is not uncommon for coding and unit testing to be conducted as two distinct phases.

Test strategy and approach

Field testing will be performed manually and functional tests will be written in detail.

Test objectives

- All field entries must work properly.
- Pages must be activated from the identified link.
- The entry screen, messages and responses must not be delayed.

Features to be tested

- Verify that the entries are of the correct format
- No duplicate entries should be allowed
- All links should take the user to the correct page.

Integration Testing:

Software integration testing is the incremental integration testing of two or more integrated software components on a single platform to produce failures caused by interface defects.

The task of the integration test is to check that components or software applications, e.g., components in a software system or – one step up – software applications at the company level – interact without error.

Test Results:

All the test cases mentioned above passed successfully. No defects encountered.

Acceptance Testing:

User Acceptance Testing is a critical phase of any project and requires significant participation by the end user. It also ensures that the system meets the functional requirements.

Test Results:

All the test cases mentioned above passed successfully. No defects encountered.

Below are the test cases for the Job Search Portal web application.

TEST MODULE	TEST CASE	EXPECTED RESULT	TEST RESULT
ADMIN	Provide valid login credentials	User successfully logged in and directed to the admin dashboard page	PASS
ADMIN	Enters invalid login credentials	Displays Error message	PASS
ADMIN	Upon successful login, click on the 'List of Employers' tab.	Displays the details of list of active employers registered with the application	PASS
ADMIN	Click on 'Active/Deactivate' tab under status of the employer	The status of the employer will be changed to active/deactivate.	PASS
EMPLOYER	Provide details for registration	Employer successfully registered with the application	PASS

EMPLOYER	Employer clicks on 'Active/deactivate' under Status	The status of the job posting will changed to active/deactivated.	PASS
EMPLOYER	Employer clicks on the 'view' tab under candidates column	The list of the details of applicants for a particular job posting are displayed.	PASS
JOBSEEKER	Provide details for registration	Jobseeker successfully registered with the application	PASS
JOBSEEKER	Enters invalid login credentials	Error message displayed	PASS
JOBSEEKER	Upon successful login, click on 'My Profile' tab	List details of jobseeker	PASS
JOBSEEKER	Upon successful login, click on 'Search Jobs' tab	Details of the active job postings are displayed.	PASS
JOBSEEKER	Upon successful login, click on 'Applied Jobs' tab	Details of the jobs that are applied by the jobseeker are displayed	PASS
JOBSEEKER	Click on 'Add Review' tab	Displays a form to fill in the review details of the company	PASS
JOBSEEKER	Logout	Redirects to the Home page of the application	PASS
EMPLOYER	Upon successful login, click on 'Post New Job' tab	Employer posts jobs with the required details	PASS
EMPLOYER	Employer trying to post job with insufficient details	Prompts to fill in all the necessary details of the job	PASS
EMPLOYER	Employer clicks on the 'List Posted Jobs' tab	All the jobs posted by the employer will be displayed.	PASS

8. CONCLUSION

Job Search Portals stands as a revolutionizing element in the sphere of recruitment. They act as a communication bridge between applicants and recruiters facilitating their requirements. This application helps organizations to have a greater exposure to the candidate pool and also job seekers facilitating wide search of jobs matching their interests. The android application provides flexibility to the jobseekers to view the openings and applied jobs without the need to carry a laptop. This application provides an enhanced user experience for both employer and jobseeker. It provides user friendly interface which facilitates in reaching wide range of audience. . Starting from requirements elicitation to design, construction, implementation and testing, I have gained a very good experience working with various technologies at every phase. Development of this project boosted my confidence in web development.

9. FUTURE ENHANCEMENTS

This project fulfills the primary requirements of the job seekers and employers. It can be extended in several ways – We can provide recommendations and email updates for new job postings based on the job seeker's search history. Since, the job seekers might be interested in building a strong Resume, we can provide tips and information for the same. We can also provide templates for building the Resumes which might interest most applicants. The web application is developed fulfilling the functionalities of job seeker, it can be extended to support functionalities of Employer as well.

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