

PROFESSIONAL TRAINING REPORT

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**Sathyabama Institute of Science and Technology
(Deemed to be University)**

Submitted in partial fulfillment of the requirements for the award

of Bachelor of Technology Degree in

Information Technology

By

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DEPARTMENT OF INFORMATION TECHNOLOGY

SCHOOL OF COMPUTING

SATHYABAMA

**INSTITUTE OF SCIENCE AND
TECHNOLOGY (DEEMED TO BE
UNIVERSITY)**

Accredited with Grade "A" by NAAC

JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHENNAI - 600 119

December 2020



SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

(Established under Section 3 of UGC Act, 1956)

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai -



SCHOOL OF COMPUTING

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of Y.DHINESH KUMAR(Reg.no.37120022) who carried out the project entitled "ONLINE JOB PORTAL" under our supervision from Jun 2020 to Dec 2020.

Internal Guide

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Head of the Department

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Submitted for Viva voce Examination held on _____

Internal Examiner

External Examiner

DECLARATION

I DHINESH KUMAR.Y hereby declare that the Project Report entitled ONLINE JOB PORTAL was done by me under the guidance of Dr.R.M.GOMATHI, M.Tech., Ph.D. at SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY is submitted in partial fulfillment of the requirements for the award of Bachelor of Technology degree in INFORMATION TECHNOLOGY.

DATE:

PLACE:

SIGNATURE OF THE CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to **Board of Management** of **SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr. T.Sasikala M.E., Ph.D**, Dean, School of Computing , **Dr.SUBHASHINI M.E., Ph.D.** ,Head of the Department of Information and Technology for providing me necessary support and details at the right time during the progressive reviews.

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I wish to express my thanks to all Teaching and Non-teaching staff members of the **Department of Information Technology** who were helpful in many ways for the completion of the project.

TRAINING CERTIFICATE



ABSTRACT

Finding jobs that best suits the interests and skill set is quite a challenging task for the job seekers. The difficulties arise from not having proper knowledge on the organization's objective, their work culture and current job openings. In addition, finding the right candidate with desired qualifications to fill their current job openings is an important task for the recruiters of any organization. Online Job Search Portals have certainly made job seeking convenient on both sides. Job Portal is the solution where recruiter as well as the job seeker meet aiming at fulfilling their individual requirement. They are the cheapest as well as the fastest source of communication reaching wide range of audience on just a single click irrespective of their geographical distance. The web application "ONLINE JOB PORTAL" provides an easy and convenient search application for the job seekers to find their desired jobs and for the recruiters to find the right candidate. Job seekers from any background can search for the current job openings. Job seekers can register with the application and update their details and skill set. They can search for available jobs and apply to their desired positions.

TABLE OF CONTENTS

CHAPTER	TITLE	PAGENO
1	INTRODUCTION	1
	1.1 INTRODUCTION.	1
	1.2 AIM.	1
2	SYSTEM ANALYSIS.	2
	2.1 EXISTING SYSTEM.	2
	2.2 PROPOSED SYSTEM.	2
	2.3 FEASIBILITY STUDY.	2
	2.4 SYSTEM REQUIREMENTS.	4
3	SYSTEM DESIGN.	5
	3.1 SDLC MODEL.	5
	3.2 USER DIAGRAM.	5
	3.3 CLASS DIAGRAM.	6
	3.4 ER DIAGRAM.	6
4	SYSTEM IMPLEMENTATIONS	7
	4.1 FRONT END.	7
	4.2 BACK END.	8
	4.3 MODULES.	9
5	TESTING.	10
	5.1 UNIT TESTING.	10
	5.2 INTERGRATION TESTING.	10
	5.3 SOFTWARE VALIDATION & VERIFICATION.	10
	5.4 TESTCASE.	10
	5.5 SOFTWARE TESTING.	11

CHAPTER	TITLE	PAGENO
6	CONCLUSION.	12
	6.1 CONCLUSION.	12
	6.2 FUTURE WORK.	12
7	REFERENCE.	13
8	SCREENSHOTS.	14

LIST OF FIGURES

FIGURE NO	FIGURE NAME	PAGENO
2.1	ARCHITECTURE DIAGRAM.	4
3.2	USE CASE DIAGRAM.	5
3.3	CLASS DIAGRAM.	6
3.4	ER DIAGRAM.	6

ONLINE JOB PORTAL

ABSTRACT

Finding jobs that best suits the interests and skill set is quite a challenging task for the job seekers. The difficulties arise from not having proper knowledge on the organization's objective, their work culture and current job openings. In addition, finding the right candidate with desired qualifications to fill their current job openings is an important task for the recruiters of any organization. Online Job Search Portals have certainly made job seeking convenient on both sides. Job Portal is the solution where recruiter as well as the job seeker meet aiming at fulfilling their individual requirement. They are the cheapest as well as the fastest source of communication reaching wide range of audience on just a single click irrespective of their geographical distance. The web application "ONLINE JOB PORTAL" provides an easy and convenient search application for the job seekers to find their desired jobs and for the recruiters to find the right candidate. Job seekers from any background can search for the current job openings. Job seekers can register with the application and update their details and skill set. They can search for available jobs and apply to their desired positions.

CHAPTER 1

INTRODUCTION

1.1 Introduction

Online Job 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 Aim

The purpose of online Job Portal is to automate the existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with. Job Portal System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information. The aim is to automate its existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

CHAPTER 2

SYSTEM ANALYSIS

2.1Existing system

All processes in existing system are handled manually. All the work that is done in the existing system is done by the human intervention .As all the work is done manually, there were a lot of workload on placement officer and it also increases the maximum chances of errors. This is so slow and time consuming. Due to increase in number of user's the process become more difficult.In the system. This big problem is the searching; sorting and updating of the student data and no any notification method available for giving information to student except the notice board.

2.2Proposed system

The proposed system is a web based application which allows applicants and employers to register their details. Applicants can browse through the vacancy details that are posted and can apply for the jobs online. Employers can browse through the posted resumes and select suitable candidates. Filter, Search facility for job seekers according to their required vacancy. Daily updates via notifications and other communication media. Sending resume saves effort, time and cost of job seeker All vacancies are available on a single interface Job seeker can set privacy level for different companies Job seeker can save jobs according to their needs Most recent jobs are displayed on the home page Counting the number of times the resume of a job seeker is accessed by the company.

2.3 Feasibility Study

A feasibility study is a high-level capsule version of the entire System analysis and Design Process. The study begins by classifying the problem definition. Feasibility is to determine if it's worth doing. Once an acceptance problem definition has been generated, the analyst develops a logical model of the system. A search for alternatives is analyzed carefully. There are 3 parts in feasibility study.

- 1) Operational Feasibility
- 2) Technical Feasibility
- 3) Economical Feasibility

2.3.1 Operational Feasibility

Operational feasibility is the measure of how well a proposed system solves the problems, The operational feasibility assessment focuses on the degree to which the proposed development projects fits in with the existing business environment and objectives with regard to development schedule, delivery date, corporate culture and existing business processes. These include such design-dependent parameters as reliability, maintainability, supportability, usability, producibility, disposability, sustainability, affordability and others. These parameters are required to be considered at the early stages of design if desired operational behaviours are to be realised. Therefore, operational feasibility is a critical aspect of systems engineering that needs to be an integral part of the early design phases.

2.3.2 Technical Feasibility

This involves questions such as whether the technology needed for the system exists, how difficult it will be to build, and whether the firm has enough experience using that technology. The assessment is based on outline design of system requirements in terms of input, processes, output, fields, programs and procedures. This can be qualified in terms of volume of data, trends, frequency of updating in order to give an introduction to the technical system. The application is the fact that it has been developed on windows XP platform and a high configuration of 1GB RAM on Intel Pentium Dual core processor. This is technically feasible. The technical feasibility assessment is focused on gaining an understanding of the present technical resources of the organization and their applicability to the expected needs of the proposed system. It is an evaluation of the hardware and software and how it meets the need of the proposed system.

2.3.3 Economical Feasibility

Establishing the cost-effectiveness of the proposed system i.e. if the benefits do not outweigh the costs then it is not worth going ahead. In the fast paced world today there is a great need of online social networking facilities. Thus the benefits of this project in the current scenario make it economically feasible. The purpose of the economic feasibility assessment is to determine the positive economic benefits to the organization that the proposed system will provide. It includes quantification and identification of all the benefits expected. This assessment typically involves a cost/benefits analysis.

2.4. SYSTEM REQUIREMENTS

2.4.1 Hardware Requirements

Number	Description
1	PC with 250 GB or more Hard disk.
2	PC with 2 GB RAM.
3	PC with Pentium 1 and Above.

2.4.2 Software Requirements

Number	Description	Type
1	Operating System	Windows XP / Windows
2	Language	PHP
3	Database	MySQL

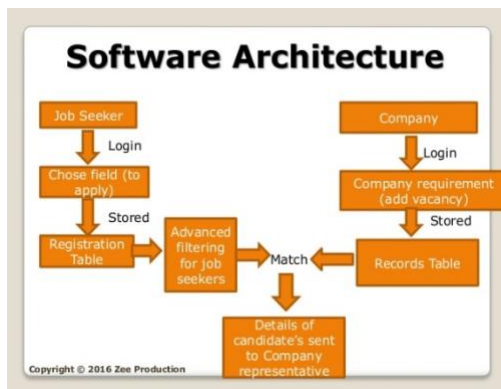


Fig 2.1 architecture diagram

CHAPTER 3

SYSTEM DESIGN

3.1 Software Development Life Cycle Model

3.1.1 WATERFALL MODEL

The waterfall model was selected as the SDLC model due to the following reasons:

- Requirements were very well documented, clear and fixed.
- Technology was adequately understood.
- Simple and easy to understand and use.
- There were no ambiguous requirements.
- Easy to manage due to the rigidity of the model. Each phase has specific deliverables and a review process.
- Clearly defined stages.
- Well understood milestones. Easy to arrange tasks.

3.2 Use Case Diagram

A diagram is a visualization of set of elements and the relationships between them. Use case is a set of scenarios, which defines functionalities of the system from a user's perspective. The main components of a use case diagram include actors, use cases and their relationships. They depict the interaction between actors and system to achieve certain goal. This, a use case diagram is important in modelling the behavior of a system.

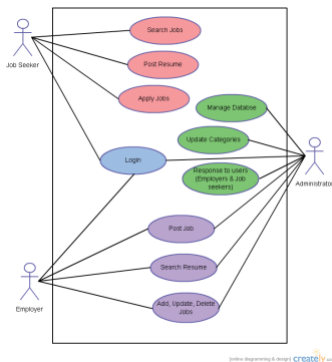


Fig 3.2 use case diagram

3.3 Class Diagram

Class diagram is a graphical representation of the static view of the system. It describes the design and structure of the system by displaying the system's classes, their attributes, methods and relationships among objects.

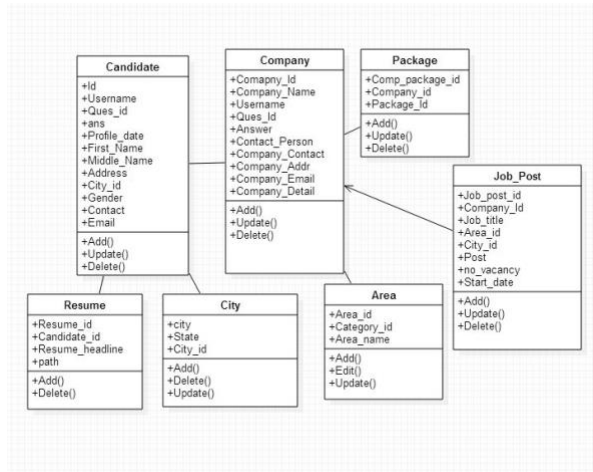


Fig 3.3 class diagram

3.4 ER Diagram

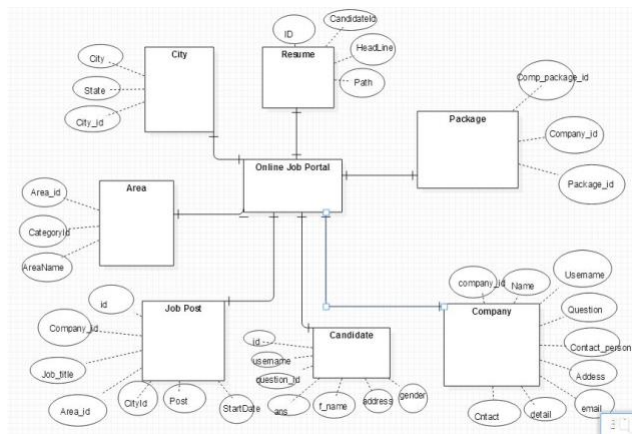


Fig 3.4 er diagram

CHAPTER 4

SYSTEM IMPLEMENTATION

4.1 Front End

4.1.1 HTML

Hypertext Markup Language (HTML) is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

4.1.2 CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language like HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript. CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file, and reduce complexity and repetition in the structural content.

4.1.3 JavaScript

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4.2. Back End

4.2.1 PHP

PHP is a server side scripting language that is used to develop Static websites or Dynamic websites or Web applications. PHP stands for Hypertext Pre-processor, that earlier stood for Personal Home Pages. PHP scripts can only be interpreted on a server that has PHP installed. The client computers accessing the PHP scripts require a web browser only. A PHP file contains PHP tags and ends with the extension ".php".

4.2.2 MySQL

MySQL is an open source relational database management system (RDBMS) based on Structured Query Language (SQL). It is one part of the very popular LAMP platform consisting of Linux, Apache, My SQL, and PHP. Currently My SQL is owned by Oracle. My SQL database is available on most important OS platforms. It runs on BSD Unix, Linux, Windows, or Mac OS. Wikipedia and YouTube use My SQL. These sites manage millions of queries each day. My SQL comes in two versions: My SQL server system and My SQL embedded system.

4.3 Modules

The modules that I have implemented in the online job Portal are as listed. 1.Admin 2. Employer 3. Jobseeker

Admin

Spring Security provides the Admin login. The Admin module provides various functionalities. The Admin users are responsible for activating and deactivating the employer accounts. In addition, Admin users can view the list of employers registered with the application.

Employer

Employer users will be able to perform functions such as registering with the application and creating an account by providing the details of Employer Name, Employer Code, Address, Company E-mail, Mobile Number, Login Name, and Password that are stored in the Employer table of MySQL database. Once the account is activated, this module allows employers to post jobs summarizing responsibilities and expected skills that will be saved in the Posted_Jobs table of MySQL database. He/she can also view the applicant details that have applied for a particular job posting. The employer will be able to view reviews provided by the jobseeker.

Jobseeker

The Jobseeker users will be able to perform functions such as registering with the application and creating an account by providing the details of First Name, Last Name, E-mail, Password, Mobile Number, Primary Skill and Experience that are stored in the Jobseeker table of MySQL database. Once the account is activated, jobseekers can search, view and apply for active job openings. All the applied jobs details are stored in the Applied_Jobs table of MySQL database. The applicants can also write/update reviews for the companies. I have used annotation configuration for spring replacing XML configurations. The application uses Hibernate framework for mapping object-oriented domain model to a relational database. The backend database for the web application is MySQL and I have used MySQL workbench and MySQL query browser for managing the database. T

CHAPTER 5

TESTING

5.1 Unit Testing

Unit tests are short code fragments created by programmers or occasionally by white box testers during the development process. It forms the basis for component testing. Ideally, each test case is independent from the others. Substitutes such as method stubs, mock objects, fakes, and test harnesses can be used to assist testing a module in isolation. Unit tests are typically written and run by software developers to ensure that code meets its design and behaves as intended.

5.2 Integration Testing

Integration testing (sometimes called integration and testing, abbreviated I&T) is the phase in software testing in which individual software modules are combined and tested as a group. It occurs after unit testing and before validation testing. Integration testing takes as its input modules that have been unit tested, groups them in larger aggregates, applies tests defined in an integration test plan to those aggregates, and delivers as its output the integrated system ready for system testing.

5.3 Software Verification and Validation

According to the Capability Maturity Model Software Verification: The process of evaluating software to determine whether the products of a given development phase satisfy the conditions imposed at the start of that phase. Software Validation: The process of evaluating software during or at the end of the development process to determine whether it satisfies specified requirements. Both verification and validation are related to the concepts of quality and of software quality assurance. By themselves, verification and validation do not guarantee software quality; planning, traceability, configuration management and other aspects of software engineering are required.

5.4 Test Case

A test case is a tool used in the process. Test cases may be prepared for software verification and software validation to determine if the product was built according to the requirements of the user. Other methods, such as reviews, may be used early in the life cycle to provide for software validation.

5.5 System Testing

System testing is performed on the entire system in the context of a Functional Requirement Specification(s) (FRS) and/or a System Requirement Specification (SRS). System testing tests not only the design, but also the behavior and even the believed expectations of the customer. It is also intended to test up to and beyond the bounds defined in the software/hardware requirements specified.

CHAPTER 6

CONCLUSION

6.1 Conclusion

At last it can be concluded that the online job portal was a real learning experience. The principles of software production were well implemented throughout the system. The whole project undergoes with full of enthusiasm and with full of joyous moments. The project has been made as per as the given specification. The system has been made as user friendly. That is why Management holds an important place in the software production. Working on the Project was really a learning experience and we have come a long way in building our concepts of Software engineering. The overall purpose of this system is to computerized the whole process and thus prevent the intervening errors. We also tried to follow the holistic design principle so that the interface of the system is simple. During the course of this assignment we have gone through many obstacles which made us to research and though increased our knowledge. After applying all the data modelling, object modelling and process modelling techniques now we are very well clear with all these concepts and fundamentals which will be going to help us in the future.

6.2 Future Work

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.

CHAPTER 7

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CHAPTER 8

SCREENSHOT



Job Portal Logout

Admin Dashboard

[List of Employees](#)

SNO	Employee Name	Employee Code	Address	Company Email	Mobile Number	Login Name	Registration Date	Status
1	employee2	employee2	Hyd	employee2@gmail.com	1234567890	employee2	2016-11-07	DeActive
2	employee5	employee5	Bangalore	employee5@gmail.com	9999999999	employee5	2016-11-08	DeActive
3	employee6	emp6	Bangalore	employee6@gmail.com	9988996677	employee6	2016-11-07	DeActive
4	employee6	emp6	Bangalore	employee6@gmail.com	9988996677	employee6	2016-11-07	DeActive
5	employee6	emp6	Bangalore	employee6@gmail.com	9988996677	employee6	2016-11-07	Active
6	Emp1	EE	Kansas	emp1@gmail.com	9874326789	emp1	2016-11-08	Active
7	Employee1	Emp1	Kansas	employee1@gmail.com	9876543210	emp1	2016-11-08	Active

[Cancel](#)

Job Portal Logout

Admin Dashboard

[List of Employees](#)

SNO	Employee Name	Employee Code	Address	Company Email	Mobile Number	Login Name	Registration Date	Status
1	employee2	employee2	Hyd	employee2@gmail.com	1234567890	employee2	2016-11-07	DeActive
2	employee5	employee5	Bangalore	employee5@gmail.com	9999999999	employee5	2016-11-08	DeActive
3	employee6	emp6	Bangalore	employee6@gmail.com	9988996677	employee6	2016-11-07	DeActive
4	employee6	emp6	Bangalore	employee6@gmail.com	9988996677	employee6	2016-11-07	DeActive
5	employee6	emp6	Bangalore	employee6@gmail.com	9988996677	employee6	2016-11-07	Active
6	Emp1	EE	Kansas	emp1@gmail.com	9874326789	emp1	2016-11-08	Active
7	Employee1	Emp1	Kansas	employee1@gmail.com	9876543210	emp1	2016-11-08	Active

[Cancel](#)

