A PROJECT REPORT
On
Employee Recruitment System

Submitted by -

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DECLARATION

We hereby declare that the work which is being presented in the B-Tech Project **"EMPLOYEE RECRUITMENT SYSTEM"**, in partial fulfillment of the requirements for the award of the ***Bachelor of Technology*** and submitted to the Department of Computer Engineering and Applications of GLA University, Mathura, is an authentic record of our own work carried under the supervision of **Ruchi Gupta Mam, Technical Trainer of ComputerEngineering Department.**

The contents of this project report, in full or in parts, have not been submitted to any other institute or university for the award of any degree.

Himanshu Gupta

191500345

CERTIFICATE

This is to certify that the above statements made by the candidates are correct to the best of my/our knowledge and belief.

Project Supervisor
(**Ruchi Gupta Mam**)

Head of Department
(**Dr. Rohit Agrawal**)

Date: 09/11/2021

ACKNOWLEDGEMENT

The satisfaction which accompanies the successful completion of the project is incomplete without the mention of a few names. We take this opportunity to acknowledge the efforts of the many individuals who helped us to make this project possible.

Firstly we would like to express our heartfelt appreciation and gratitude to our project guide **Ruchi Gupta Mam, Technical Trainer, Computer Engineering Department.** His vision and execution aimed at creating a structure, definition and realism around the project and fostered the ideal environment for us to learn and do. This project is a result of his teaching, encouragement and inputs in the numerous meetings he had with us, despite his busy schedule.

We would also like to extend our immense gratitude to respected Head of Department **Dr. Rohit Agrawal** who allowed us to choose the topic for our dissertation.

The experience was novel one and we would like to thank all the people, who have let their valuable time for the completion of the report. Without their consideration it would have been difficult to complete the report.

Mr. Himanshu Gupta (191500345)

ABSTRACT

Employee Recruitment System is a company platform that offers a wide variety of competitive question. The companies can visit here and recruit fresh graduates who are technically efficient in coding by giving them question.

There are different users:

1. Admin
2. Employee

People can login or signup in the system by providing few details. After login they can see the different varieties of questions which are available on the website. they can simply solve it.

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INTRODUCTION

STATUS INFOTAINMENT is a company platform that offers a wide variety of competitive question. The companies can visit here and recruit fresh graduates who are technically efficient in coding by giving them questions. It's objective is to provide the user to register and login on the website. After that he/she can upload resume, write, execute and submit their code successfully so that it will be visible to recruiters andthey can review it. Overview and Motivation:

Overview:

The main motive of our project "Online Code Editor" is to help people who have competitive skills. It can help to improve their coding skills.

Motivation:

- Help company to recruit freshers online.
- Save time in going to other different platforms.

2. Objective:

STATUS INFOTAINMENT objective is to provide the user to register and login on the website. After that he/she can upload resume, write, execute and submit their code successfully so that it will be visible to recruiters and they can review it..

3. Organization of Project Report:

PHASES	TIME DURATION
Software Requirement Specification	3 days
System Design	3 days
Coding	5 days
Testing	3 days
Documentation	2 days
Implementation	2 days

SOFTWARE REQUIREMENT ANALYSIS

System Analysis is a detailed study of the various operations performed by a system and their relationship within and outside the system .It is a systematic technique that defines goals and objectives the goal of the development is to deliver the system in the line with the user's requirements, and analysis is this process.

System study has been conducted with the following objectives in mind: -

- Identify the people need.
- Evaluate the system concept for feasibility.
- Perform economical and technical analysis.
- Allocate functional to hardware, software, people, database and other system elements.
- Establish cost and schedule constraints.
- Both hardware and software expertise is required to successfully attain the objectives.

2.1 Requirement Analysis:

Information gathering is usually the first phase of the software development project. The purpose of this phase is to identify and document the exact requirements for the system. The user's request identifies the need for a new information system and on investigation re-defined the new problem to be based on MIS, which supports management. The objective is to determine whether the request is valid and feasible before a recommendation is made to build a new or existing manual system continues.

The major steps are –

- Defining the user requirements.
- Studying the present system to verify the problem.
- Defining the performance expected by the candidate to user requirement.

2.1.1 Hardware Requirements

Processor	: Intel Dual Core or more
Processor Speed	: 1.5 GHZ
RAM	: 2 GB
Hard Disk	: 20 GB of free space

2.1.2 Software Requirements

Operating System	: Window 7 and higher
Front End	: HTML, CSS, Java Script
Back End	: PHP
Dev. Environment	Visual Studio Code

3. Tools and Technology:

Tools:

- Notepad++
- Wamp Server
- Windows 7 & and higher
- Visual Studio Code

Technology:

- **CSS:** CSS is cascading style sheet which is used to give designer look to HTML using the external file.

- **HTML:** Hypertext Markup Language is the standard markup language for creating web pages and web application. HTML elements are the building blocks of HTML pages. With HTML constructs, image and other objects, such as interactive form.
- **PHP:** Hypertext Preprocessor is a server-side scripting language designed for web development but also used as a general-purpose programming language.

2. Feasibility Test:

Feasibility study is the process of determination of whether or not a project is worth doing. Feasibility studies are undertaken within tight time constraints and normally culminate in a written and oral feasibility report. I have taken a fixed time in feasibility study with my co-developer. The contents and recommendations of this feasibility study helped us as a sound basis for deciding how to precede the project. It helped in taking decisions such as which software to use, hardware combinations, etc.

1. Technical feasibility:

This is concerned with specifying equipment of software and hardware that will successfully satisfy the user requirements. The technical needs of the system may vary considerably, but might include:

- The facility to produce output in a given time.
- Response time under certain condition.
- Ability to produce a certain volume of transaction at a particular speed.

- In examining technical feasibility, configuration of the system is given more importance than the actual make of hardware. The

configuration should give the complete picture about the system requirements. What speeds of input and output should be achieved at particular quality of printing.

According to the definition of technical feasibility the compatibility between front-end is very important. In our project the compatibility of it is very good. The speed of output is very good when we enter the data and click button then the response time is very fast and give result very quick. In ever find difficulty when we use complex query or heavy transaction. The speed of transaction is always smooth and constant. This software provides facility to communicate data to distant location. The designing of front- end of any project is very important so we selected Active Server Pages, HTML & CSS as front-end due to following reason:

- Well define interface.
- Easy implementation of code.

At present scenario the no of backend are not available because of the following number of reasons.

- Able to handle large data.
- Security.
- Robust RDBMS
- Backup & Recovery

With the help of above support we ensure that system does not halt in case of undesired situation or events. Problem affected of any module does not affect any module of the system. A change of hardware does not produce problem.

2. Operational Feasibility:

It is mainly related to human organizational and political aspects.

The points to be considered are:

- What changes will be brought with the system?
- What organization structures are distributed structures are distributed.
- What new skills will be required? Do the existing staff members have these skills? If not, can they be trained in due course of time?

At present stage all the work is done manually. So, throughput and response time is too much. Major problem is lack of security check that should have been applied.

Finding out the detail regarding user's request was very difficult, because data store was in different registers and different places. In case of any problem, no one can solve the problem until the person responsible is not present.

Current communication is entirely on telephonic conversation or personal meetings. Post computerization staff can interact using internet.

Now, we will explain the last point of operational feasibility i.e. handling and keeping of software, at every point of designing I will take care that menu options are not too complex and can be easily learned and required least amount of technical skills as operators are going to be from non-computers background.

3. Economic feasibility:

Economic analysis is the most frequently used technique for evaluating the effectiveness of a proposed system. More commonly known as cost/benefit analysis: the procedure is to determine the benefits and saving that are expected from a proposed system and compare them with cost. If benefits outweigh cost, a decision is taken to design and implement the system. Otherwise, further justification or alternative in the proposed system will have to be made if it is to have a chance of being approved. This is an ongoing effort that improves in accuracy at each phase of the system life cycle.

At present Company have ten systems with following configuration:

- Ram 4 GB or above for fast execution and reliability
- Color Monitor 14" and17"
- Hard Disk 100GB
- Hence the economic feasibility is very good.

2.3 Analysis:

System analysis is the first step towards the software building process. The purpose of system analysis is to understand the system requirements, identify the data, functional and behavioral requirements and building the models of the system for better understanding of the system.

In the process of system analysis one should first understand that, what the present system is how it works (i.e. processes).After analyzing these points we become able to identify the problems in the present

system. Upon evaluating current problems and desired information (input and output to the system), the analyst looks towards one or more solutions. To begin with, the data objects, processing functions, and behavior of the system are defined in detail. After this models, from three different aspects of the system-data, function and behavior. The models created during the system analysis process helps in better understanding of data and control flow, functional processing, operational behavioral and information content.

4. Summary of Modules:

a) Employee

b) Admin

Employee:

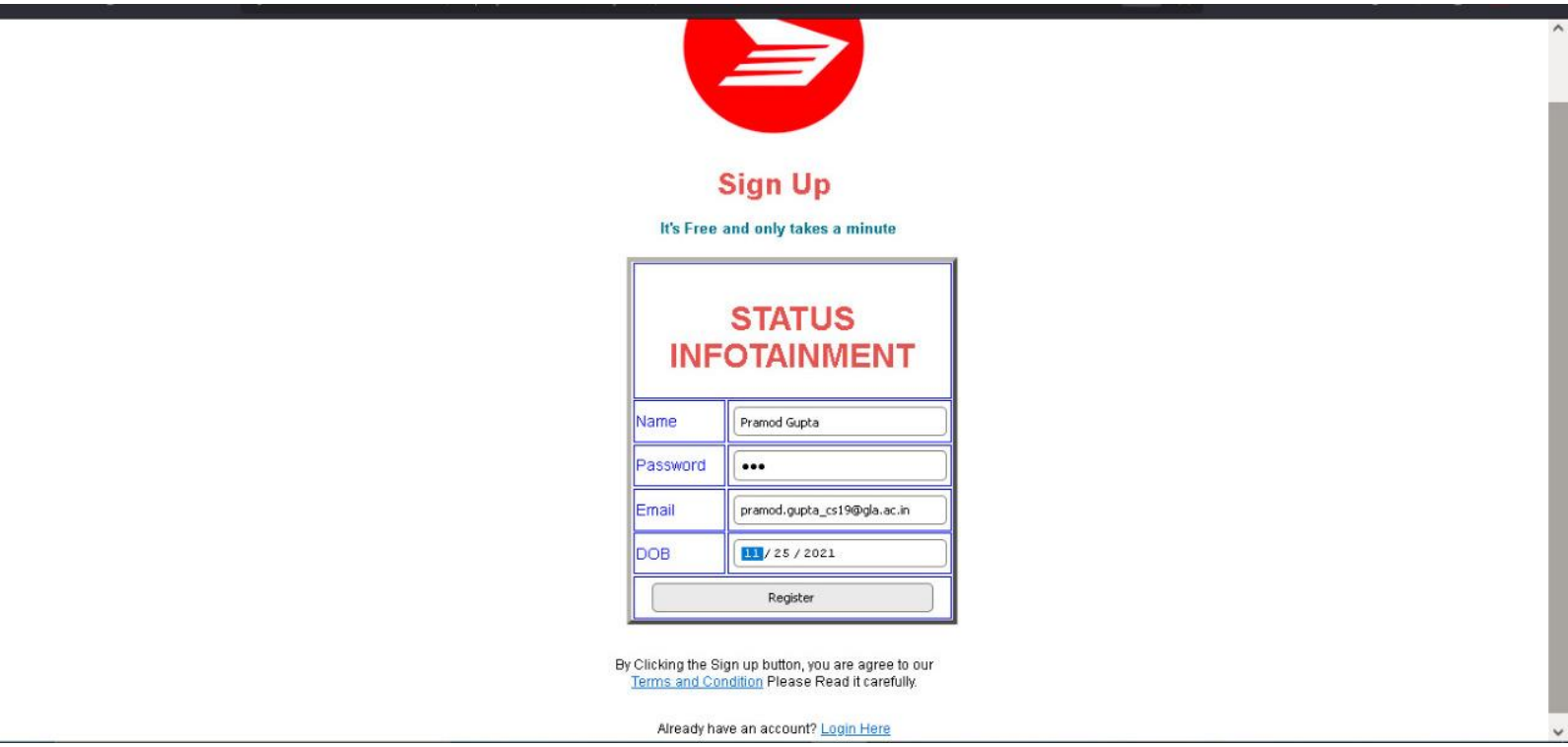
They can simply sign up or login to the system and perform activity.

Admin:

Admin can search for the resume. They can simply evaluate the programming questions.

IMPLEMENTATION & USER INTERFACE

HOME PAGE



VALIDATION PAGE

You are already registered
Click Here to login

Your data has been submitted successfully
Click here to upload your resume

RESUME PAGE

File uploaded successfully

Please upload your resume here before login

Browse... No file selected.

Upload File

Click Here to login

LOGIN PAGE


Login
Email
bramod.gupta_cs19@gl
Password
login
Forget Password
Not have an account? Sign Up Here

TERMS AND CONDITIONS PAGE

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5. Contact

If you have any questions about these Terms, please contact us by email on the following address:

Name: employeeRecruitmentSystem

E-mail id: himanshu.gupta_cs19@gla.ac.in

LANGUAGE DROP DOWN BOX

EXECUTED CODE PAGE

Congratulations! You are authorized user
Your Job Application number is 1006

Question7 :- Write a program to Sort the given array using Merge sort.

Coding Problem

Select Language: C

```c
#include <stdio.h>
int main() {
    printf("JAI SHREE SHYAM");
    return 1;
}
```

Submit

JAI SHREE SHYAM

SOFTWARE TESTING

1. Testing:

- Software testing is the process of executing a program with intension of finding errors in the code. It is a process of evolution of system or its parts by manual or automatic means to verify that it is satisfying specified or requirements or not.
- Generally, no system is perfect due to communication problems between user and developer, time constraints, or conceptual mistakes by developer.
- To purpose of system testing is to check and find out these errors or faults as early as possible so losses due to it can be saved.
- Testing is the fundamental process of software success.
- Testing is not a distinct phase in system development life cycle but should be applicable throughout all phases i.e. design development and maintenance phase.
- Testing is used to show incorrectness and considered to success when an error is detected.

1. Objectives of Software Testing:

- **Software Quality Improvement:** The computer and the software are mainly used for complex and critical applications and a bug or fault in software causes severe losses. So a great consideration is required for checking for quality of software.

- **Verification and Validation:** Verification means to test that we are building the product in right way .i.e. are we using the correct procedure for the development of software so that it can meet the user requirements.

  Validation means to check whether we are building the right product or not.

- **Software Reliability Estimation:** The objective is to discover the residual designing errors before delivery to the customer. The failure data during process are taken down in order to estimate the software reliability.

3. Principles of Software Testing:

- All tests should be traceable to end user requirements.
- Tests should be planned long before testing begins
- Testing should begin on a small scale and progress towards testing in large
- To be most effective testing should be conducted by an independent third party.

The primary objective for test case design is to derive a set of tests that has the highest livelihood for uncovering defects in software. To accomplish this objective two different categories of test case design techniques are used. They are :

- **White Box Testing:** White box testing focus on the program control structure. Test cases are derived to ensure that all statements in the program have been executed at least once duringtesting and that all logical conditions have been executed.

- **Black Box Testing:** Black box testing is designed to validate functional requirements without regard to the internal workings of a program. Black box testing mainly focuses on the information domain of the software, deriving test cases by partitioning input and output in a manner that provides through test coverage. Incorrect and missing functions, interface errors, errors in data structures.

4. Testing fundamentals:

Testing is a process of executing program with the intent of finding error. A good test case is one that has high probability of finding an undiscovered error. If testing is conducted successfully it uncovers the errors in the software. Testing cannot show the absence of defects, it can only show that software defects present.

5. Testing Information flow:

Information flow for testing flows the pattern. Two class of input provided to test the process. The software configuration includes a software requirements specification, a design specification and source code.

Test configuration includes test plan and test cases and test tools. Tests are conducted and all the results are evaluated. That is test results are compared with expected results. When erroneous data are uncovered, an error is implied and debugging commences.

Working Methodology

- The user can register by entering his/her first name, date of birth, email, password, etc.

- After registering, the user shall upload his/her resume and thenlogin using his/her email and password.

- There is a problem statement for which he/she has to code on C++/PHP/C inside the code area provided.

- On clicking the run button, the code entered by the user is Run and will submitted on database.

Limitations of The System Proposed-

• Internet connection is required while accessing the website.

• Limitation of programming languages i.e. only C++, PHP and C are available for user to code.

• Unavailability of test cases to check the code at different inputs.

• As the number of questions are limited so many users may have same questions.

CONCLUSION

This was the first considerably large and important project undertaken by me during my B-Tech course. It was an experience that changed the way I perceived project development. The coding could not be started before the whole system was completely finalized. Even then there were so many changes required and the coding needed to be changed. I attribute this to inadequate information gathering from the user. Though there were many meetings with the user and most of the requirements were gathered, a few misinterpretations of the requirements still crept in. It made me realize how important the systems analysis phase is. The project is a classic example, that learning of concepts needs to be supplemented with application of that knowledge.

On the whole it was a wonderful experience developing **EMPLOYEE RECRUITMENT SYSTEM** and I would have considered my education incomplete without undertaking such a project which allowed me to apply all that I have learnt and tried to develop a project that can be useful and efficiently. It is developed using JavaScript so that it can be accessed very easily and at any time. The system will be capable of providing a platform to the users according to their needs within a given time frame. The system is developed with an aim of usability sothat it is an easy to use system that requires the least amount of user input possible. For using this system general computer knowledge is enough. An easy well-structured module will show the correct path to reach the destination. Users will be authenticated to ensure that no unauthorized users gain access to private information.

BIBLIOGRAPHY & REFERENCES

To develop this web application of ONLINE CODE EDITOR, we used HTML and CSS and JavaScript for front end and PHP for back end. We take some knowledge towards automation system from websites that are given below:

- Wikipedia
- Geeks for Geeks.
- W3Schools

References:

https://Stack_Overflow
http://www.beta-labs.in/
https://github.com/ajaxorg/ace-builds