

Job Portal Web Application

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Abstract--- Quickly, efficiently, and cheaply, it serves as a platform for the transmission of information between placement agencies, job seekers, and employers. It connects people looking for work with recruiters who can help them find openings. Using the power and breadth of the Internet, Smartjobs.com has created a robust recruitment platform that connects companies and job seekers. This platform enables direct interaction between the two parties, leading to rapid, efficient, and cost-effective recruitment. Members and non-members alike can take advantage of Job Warehouse's resources to find local and regional job openings that are updated daily. There are four modules: 1. User registration Module 2. Admin Registration Module 3. Student Registration Module 4. Student Login Module.

Keywords--- Job Portal, Web, Recruitment, Job Seekers.

I. INTRODUCTION

THE Assistanz networks was founded by an energetic and determined group of professionals to serve as clients' full-service provider in improving all facets of their operations. We focus on innovative, emerging technologies to deliver clients' needs in time. Our enthusiastic and endowed software developers, designers, technical professionals and database experts steer the growth of Assistanz networks and Partners in the global market.

Assistanz networks provides support services to its clients using Oracle technology products and UNIX / Linux systems [1]. Assistanz networks for the most part engaged in developing a variety of software solutions and back end supports ranging from simple too complex for individual clients and industries.

The development of communication and information technology has implications for the use of artificial intelligence systems. The systems are almost at peak performance. Artificial intelligence expert systems, robotics, natural language processing, human-interfaced decision support systems, and many more [2]. Even in artificial intelligence fields, there are hybrid approaches as well as flexible approaches that create more intricate ways of doing things.

In addition, there exist coadaptible systems and hybrid natural languages that are capable of comprehending human natural language [3]. Through reading every electronic article on the internet, these interfaced systems are able to educate themselves and broaden their knowledge. The client can ask questions of the system in the same manner that they could ask questions of a human. These devices are sometimes referred to as intelligent answering machines.

Manual approach to each and every system is being degraded due to IT Revolution. This not only proves our ability but also helps sophistication of the society desires. Manual system for a smart completion of small unit of work involves

lot of time and efforts of course it lacks perfectness and accuracy [4]. So with the intervention of computer perfectness and accuracy raised and all the sophisticate net made dreams into actions. With the invention of network all these problems are solved.

Artificial intelligence (AI) is the term that is frequently used to describe computers, software, machines, and systems. For the first time, during the Industrial Revolution, Czech Karel created Rossum's Universal Robots (R.U.R.), which goes by the name ROBOT [5]. However, the term "artificial intelligence" was first used by John McCarthy in 1956. He defined the term at an academic conference and proposed that AI would eventually be useful in the fields of applied science, psychology, medical sciences, linguistics, biology, engineering, and interdisciplinary studies.

II. LITERATURE REVIEW

Shamrat et.al [6] Information is the most powerful tool in the competitive job market of today. In order to find a job, a seeker must be aware of the type of competition he will be up against. With this information, the job seeker can set himself apart from the competition. The data on job interests can be grouped according to types using the unsupervised k-means machine learning algorithm, which can be used to ascertain the demand for any field of work among job seekers. With respect to group density, the scatter plot's visual depiction of the clusters provides information about the types of jobs that are more or less in demand among job seekers. The present job market is explained by this study.

Kubar et.al [7] Determining the efficacy of E-Recruitment and its relationship to the HR departments of private HEIs in Karachi are the main goals of the research study. There is a worklist available on industrial and service sectors in relation to e-recruitment, but there is still a research gap on educational institutions, especially private higher education institutions. A thorough review of the literature is talked about. According to

the research methodology, this study used an exploratory as well as an explanatory design. There were two self-made surveys used. The investigators employed SPSS version 25.0 to conduct a number of tests, such as multiple regression, Pearson correlation, Bartlett's test, KMO, reliability test, and descriptive statistics. The independent and dependent variables have a strong positive relationship, which is accepted at a 5% significance level, according to the results. The interviews also revealed that e-recruitment is a more economical approach, with a wider geographic scope, quicker hiring processes, reliability in the hiring process, and ease of HR department selection.

Yıldırım and Bostancı [8] The purpose of this study is to investigate, from the viewpoint of the citizen, the critical elements involved in establishing an effective e-government portal management system. As a result, the goal of this study is to clarify how an e-government portal ought to effectively manage the digital public services it provides to the public. The data is based on publicly accessible data and information from the Turkish e-government portal, also known as the e-Government Gateway in real life. Additionally, the general profile of citizens' Internet usage and skills was ascertained using data from the Turkish Statistical Institute, or TURKSTAT. After that, descriptive content analysis is used to examine the data.

Sharma et.al [9] The contribution that intelligent communication management terminals make to the advancement of the human resource management paradigm is the main topic of this study and the discussion that follows. The Android Software Development Kit (SDK) and the Android Software Development Kit plug-in for Eclipse must be installed on the computer's operating system in order to set up an Android development environment. The system's architecture not only simplifies and eases the administration of the company, but it also optimizes corporate procedures, thereby lowering the need for human resources. Supervisory staff members overseeing the human resources department are expected to follow all applicable laws and regulations and finish any necessary training. Additionally, they might provide other companies dealing with similar problems with a useful example, which would enhance the efficiency of the management of the company's human resources.

FG Assis et.al [10] This perspective has been supported by the development of LUC maps, which have made it possible for scientists to estimate the parameter heterogeneity of the Earth's surface. In order to facilitate the implementation of successful public policies and promote sustainable development, government programs have distributed thematic maps in addition to feature descriptions and statistics for aggregating spatiotemporal data. PRODES and DETER have demonstrated their dedication to mapping areas of extensive deforestation in a methodical and data-quality-assured manner in Brazil. In order to optimize performance, we utilized a micro-service architecture that utilized virtualized computer resources. This allowed for increased fault tolerance in unstable computer network scenarios, high availability, reduced size, and ease of production of increments.

Furthermore, in order to make our databases more responsive to complex algorithm input formats and to load web applications faster than those of our competitors, we also tuned and optimized them.

III. PROPOSED METHODOLOGY

To overcome all the limitations and map a new system has to be proposed and it should overcome the limitations and it has to be welcomed by IT people. The Internet is not a simple network but a global interconnected network of networks.

The cost for the proposed system is less. It is flexible. The present proposed system modules are developed using ASP.net, which is Microsoft's solution to advanced websites.

3.1. Defining the Problem

Organisational challenge specification: create a one-of-a-kind career website that helps people in their search for employment as well as those in charge of hiring. It will be built online. The creation of a website that connects employers with potential employees is a necessary business function. The company's goal will be achieved via this initiative.

Developing Solution Strategies

It is crucial to computerise the system in order to offer a high level of accuracy and efficiency while simultaneously reducing the workload. The computerised system is user-friendly and produces very accurate results.

Database operations like append, update and search options are generated during runtime. Since the software is developed for multiuser environment the password protection is provided to protect it from unauthorized user.

3.2. Modules in the System

User Registration Module

It allows the user to register the details in the registration form to apply online to various companies in need of job. User can register details like new user name, password, date of birth, school and college education qualification, percentage of marks, reading and writing language details, any experience details stored in registration table.

Admin Registration Module

The only way for an administrator to access the registration module is to use it for authentication purposes. Along with the authentication type, it stores and maintains the administrator's personal information, including their name, designation, email, phone number, address, username, password, and date of birth. The individual responsible for its authentication will be able to access it using their login credentials.

Student Registration Module

The sole purpose of the registration module is to authenticate students; only students have access to this module. Name, designation, email, phone, address, username, password, and date of birth are some of the personal details included, along with the authentication type. This information

can also be recorded and maintained in a database. The individual responsible for its authentication will be able to access it using their login credentials.

Student Login Module

This module checks the student register page by checking with username and password which is already stored in database. If true data is authenticated that allows to go for main student module or otherwise that will stay in current page by showing up alert message as Invalid User.

3.3. Salient Features of the System

The main goal of this project is to achieve an effective online system to get the job from company. Thus, the project aims at achieving the following goals precisely,

- Robustness
- Portability
- User friendliness

The system is designed with Asp.net technology as Front End and MS SQL Server as Backend.

3.4. Reasons to be on the WWW

The reasons are specified as below,

(i) To Establish a Presence

Approximately 70 million people worldwide have access to the World Wide Web (WWW). To be a part of this community and show that you are interested in serving them, their need to be on the WWW for them. You know your competitors well.

(ii) To Make Job Information Available

What is basic job information? Think of a Yellow pages ad. What are the working hours of the organization? How can

someone contact the organization? Where is the company located? What is today’s special? So, the job seeker opts for the WWW.

(iii) To Serve the Job Seeker

Making Job information available is one of the most important ways to serve the job seeker. In serving the job seeker many will find more ways to use WWW technology. All this can be done simply and quickly on the WWW.

Data Flow

The purpose of encoding data is to make it easier to find and retrieve certain pieces of information. Make sure the code is straightforward and easy to understand. Characteristics like optimal human-oriented use and machine efficiency remain untouched by the codes' design. While developing the code, we also kept the following features in mind to ensure its efficacy:

- Uniqueness
- Versatility
- Stability
- Simplicity
- Consciousness

In order to process data for both machines and humans, the code must be sufficient for both current and future needs. Minimising the amount of time and effort needed for administrative tasks and computer use was a priority to ensure smooth operations.

This is a very important design in every phase. Because all the data that we’re giving as input is stored in database directly. So, the design that must be made must be very efficient and it must be very secure one for very confidential data. Depending upon this idea the tables are created.

3.5. Data Flow Diagram

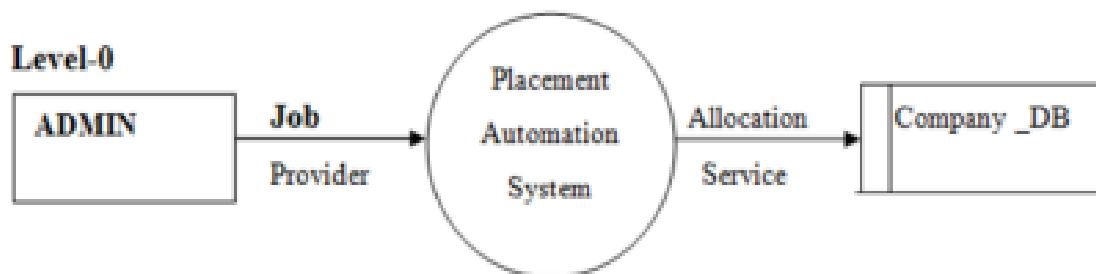


Figure 1 - Level 0 DFD

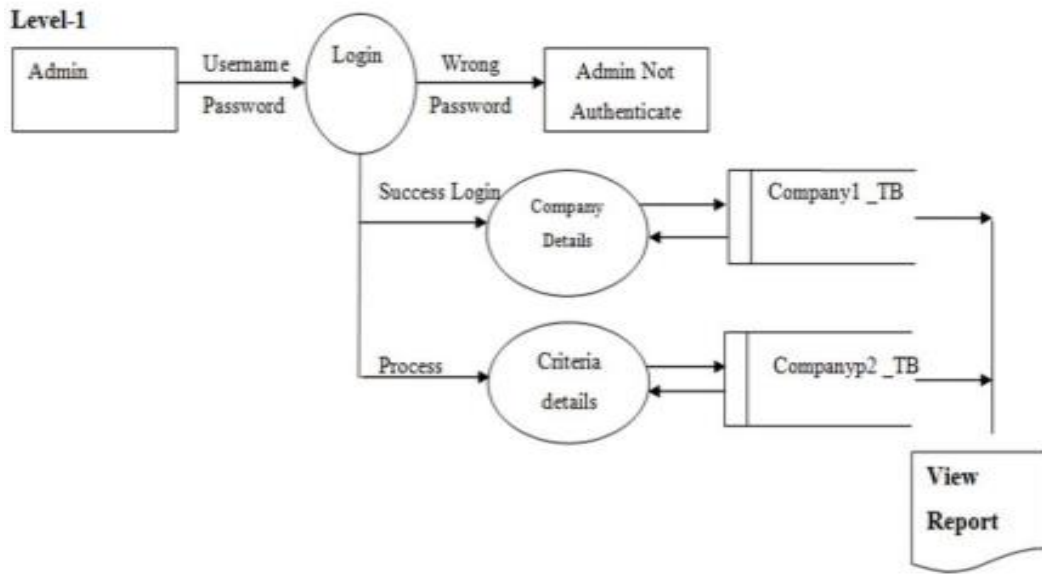


Figure 2 - Level 1 DFD

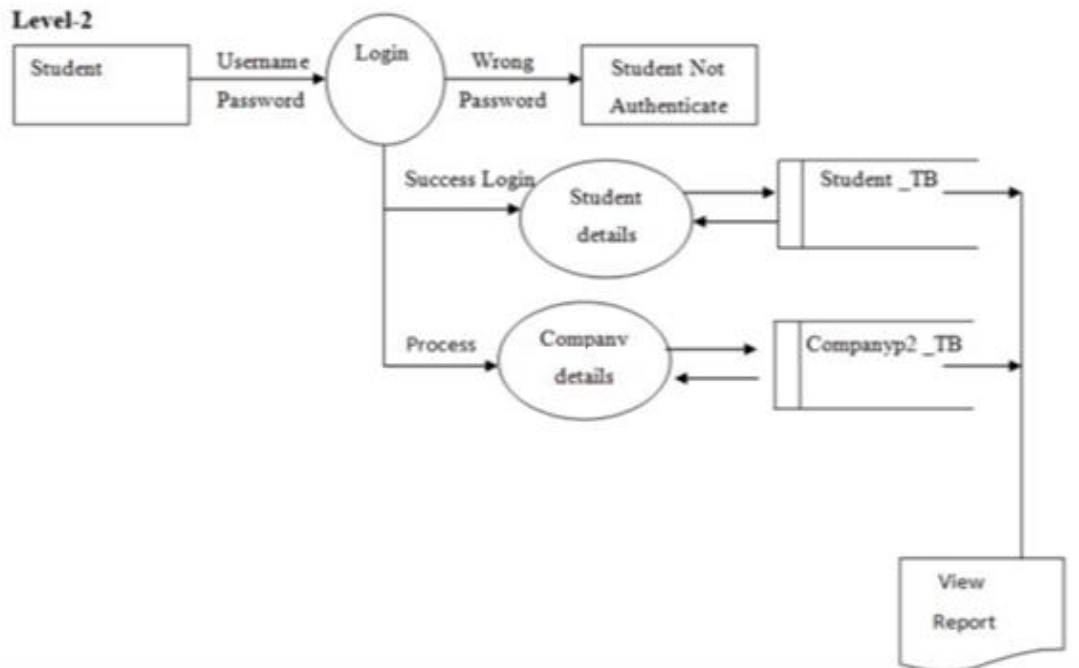


Figure 3 - Level 2 DFD

IV. SYSTEM SPECIFICATIONS

4.1. Hardware Specification

Table 1: Hardware Specification

Processor	Intel Core I 3 2.66 GHz
System RAM	2 GB RAM
Hard disk drive	1 TB
Keyboard	106 multimedia keyboards
Mouse	optical mouse
Monitor	15" color monitor

4.2. Software Specification

Table 2: Software Specification

Front end	PHP
Back end	MY SQL Server
Web server	Apache Server
Server-side script	VB Script
Platform	Windows 10

V. RESEARCH AND DISCUSSION

5.1. Input Design

A user-centric description of inputs is transformed into a computer-based program-oriented specification through input design. Making an input layout that is easy to follow and prevent data entry errors is the key purpose.

The database then stores the operational data, which is the legitimate data. As simple and error-free as possible data entering is the holy grail of input design. During the data entering phase, the input screen takes precautions to prevent erroneous data from becoming operational data.

Of all the steps involved in designing a system, input design is the most time-consuming and costly. It is error-prone since it is the first thing users see when they interact with the computer. Processing and output will amplify input faults if they are erroneous.

Objective during the input design is as follows

- Collection of data from its source
- Conversion of data into computer acceptable form
- Several stages of input design are,
- Data recording.

- Data verification.
- Transmitting data to the system.
- Data correction.

The different types of input data handled by the system are:

(i) External

They are the prime inputs to the system. The external input is what the user supplies to the system. There are two types of external inputs in the OOS. User gives one input and the other are by admin.

(ii) Internal

They are input format required for the system to understand. When the external input is obtained from the user, these inputs are transferred as messages through windowing system. These messages are then captured and handled as input for further processing.

(iii) The Home Page

Home page consists of certain set of application and each one is very easy to use.

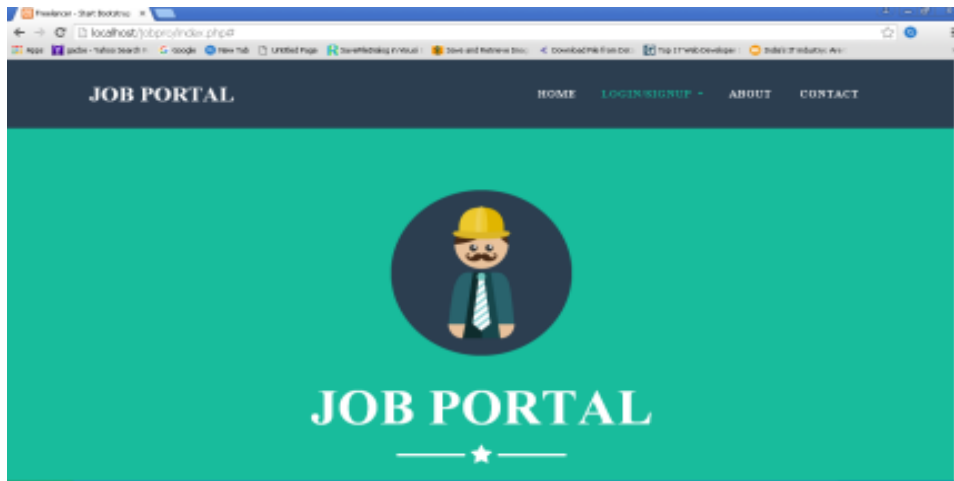


Figure 4 - Login Page of the Application

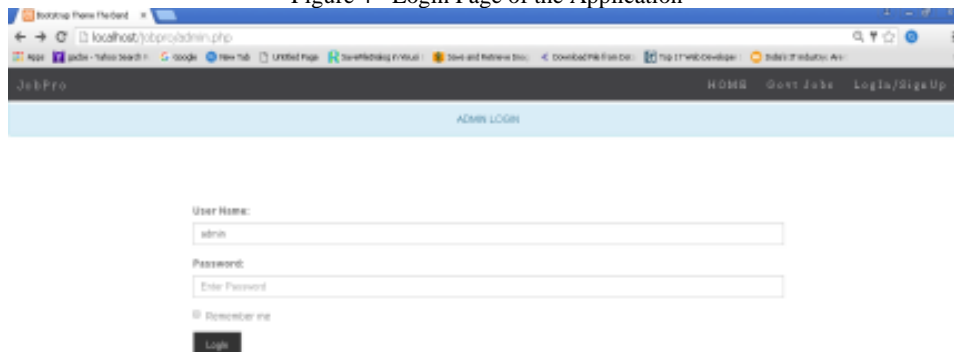


Figure 5 - Welcome Admin Page to Login and Perform a Task

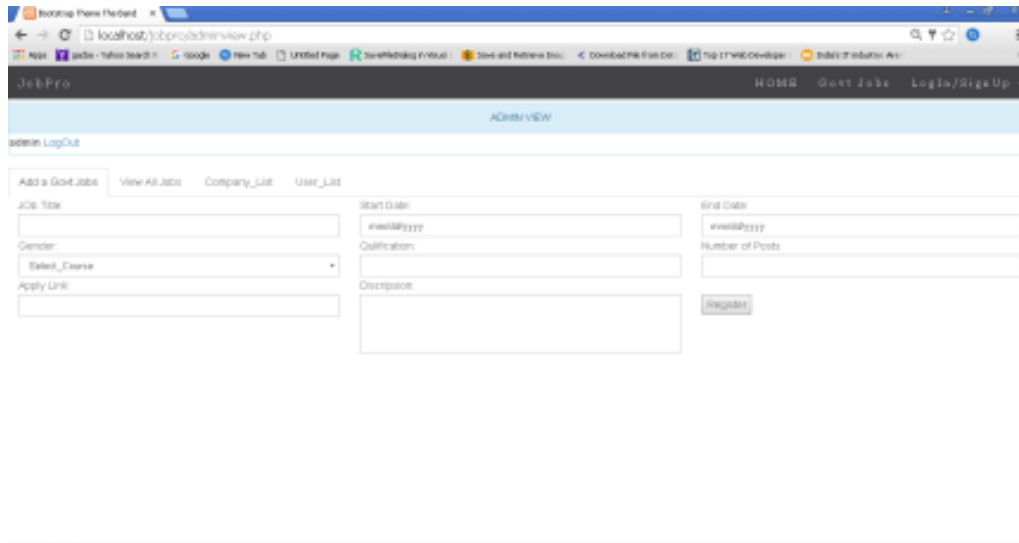


Figure 6 - To Add a New Entry to the Job Details Database

5.2. Output Design

The output design defines the output required and the format in which it is to be produced. Care must be taken to present the right information so that right decisions are made. The output generated can be classified into three main categories,

- Screen Output
- Output to be stored as files in storage media
- Hard copy of the output

The screen output essentially displays the generated output on the screen. The results of most of the queries are usually displayed on the screen to on line information. The provision of generated output to be stored in the file is further reference and to take hard copies of the same is to provide information to the management and whatever situation demands.

- The objectives of the output design are as follows:
- Design output to serve the indented purpose.
- Design output to fit user.
- Deliver the appropriate quantity of output.
- Assure that output is where it is needed.
- Provide output on time.
- Choose the right output method.

Making sure the system's input and output are well-designed and user-friendly is an essential task. Getting the processing result out to people is the primary use case for system outputs. Additionally, outputs give a permanent record of the findings for use in subsequent consultations. The user-system relationship and decision-making capabilities are both enhanced by an understandable output design.

COMPANY NAME	Experience	POSITION	COMPANY LOCATION	Start Date	End Date	Salary	P/M
Notice: Underline	1-2 Years	JAVA	Madurai	2018-01-26	2018-01-31	15000-30000	Developer
Not	1-2 Years	JAVA	Chennai	2018-02-12	2018-02-28	15000-30000	Developer
mpa	1-2 Years	JAVA	Madurai	2018-02-22	2018-02-28	15000-30000	Developer
wjgns	8 & Above	JAVA	Madurai	2018-02-11	2018-02-11	Below-30000	Developer

Figure 7 - The Newly Added Entry of an Employee is Inserted to the Existing Report

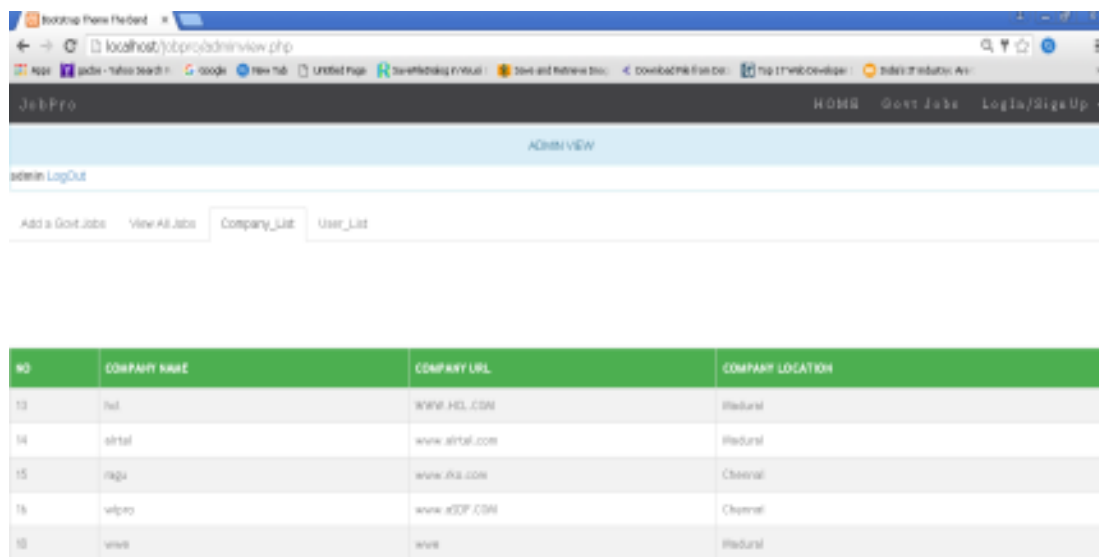


Figure 8 - Attributes of the Employee Report Details

VI. CONCLUSION

The project “Job portal web application” is found to be working effectively and sufficiently. The system was tested and found to be error free. The software is developed using PHP as the front end. This project is using the database MY SQL Server as the backend.

This project is capable of working in Internet. The Web Pages are designed using PHP. Further if there is any modification is needed, it can be easy to add into the existing project. The successful completion of the system resulted in

- Elimination of manual processing
- The system is User-friendly
- Fast Data processing compared to manual processing
- Accuracy
- Time saving process
- Reduces the wastage of money
- Immunization of the System from Unauthorized user access

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