**1. ABSTRACT**

The Maid Hiring Management System is a web-based application that helps in the management of hiring maids for households. The system is developed using PHP and MySQL, and it allows households to register, login and hire maids based on their needs. The system also provides a platform for maids to register their profiles and skills.

The system has features for managing household accounts, maid profiles, scheduling appointments, and generating invoices. The system is designed to be user-friendly and intuitive, allowing households and maids to easily navigate and use the system. The system is also secure, with authentication and authorization mechanisms in place to ensure data privacy and protection.

The Maid Hiring Management System aims to simplify the process of hiring maids and ensure that households can easily access reliable and trustworthy maids. It also aims to provide maids with a platform to showcase their skills and improve their employment opportunities. The system is scalable and can be customized to meet the specific needs of households and maid agencies.

**2. INTRODUCTION**

The Maid Hiring Management System is a software solution designed to help businesses streamline their hiring process for domestic workers. The system will be built using MySQL and PHP programming languages, which are commonly used for web-based applications.

The purpose of the Maid Hiring Management System is to automate the process of hiring and managing domestic workers. The system will allow businesses to post job openings for domestic workers, review resumes and applications, schedule interviews, and track the hiring process. Additionally, the system will provide tools for managing employee information, scheduling shifts, tracking time and attendance, and processing payroll.

The system will be designed to be user-friendly, with an intuitive interface that is easy to navigate. It will also be customizable, allowing businesses to tailor the system to their specific needs. The system will be accessible from any device with an internet connection, making it easy for employers to manage their workforce from anywhere.

The Maid Hiring Management System will be built using the MySQL database management system, which is widely used for web applications and provides fast and reliable data storage. The system will also be built using PHP, a popular server-side programming language that is ideal for developing dynamic web applications.

Overall, the Maid Hiring Management System will provide businesses with a comprehensive solution for managing their domestic workforce. By automating the hiring and management process, the system will help businesses save time and improve productivity, while also reducing the risk of errors and increasing data accuracy.

**2.1 Motivation:**

The demand for maid services is increasing, and managing the hiring process can be challenging without an organized system.

A Maid Hiring Management System can streamline the process of hiring, managing, and paying maids, leading to increased efficiency and customer satisfaction.

Building this system using PHP and MySQL can provide a cost-effective and reliable solution for businesses in the maid service industry.

Developing such a project can also enhance your programming skills and provide a valuable addition to your portfolio.

**2.2 Problem Statement:**

The project aims to create a web-based system for managing the hiring process of maids. It will allow users to browse available maids, view their profiles, and schedule appointments. The system will also provide a platform for maid agencies to manage their staff and client information. It will be developed using PHP and MySQL.

**2.3Purpose/ Objectives & Goals :**

* To create a user-friendly platform where individuals can search for and hire maids based on their specific needs and preferences.
* To implement a secure login and registration system for both users and maids, ensuring the privacy and safety of personal information.
* automate its existing manual system by the help of computerized equipment and full-fledge computer software, fulfilling their requirements so that their valuable date can be stored for a longer period with easy accessing and manipulation of the same
* Basically the project describes how to handle good performance and provide better services to clients
* This project can lead to error free, secure, reliable and fast management system. This system will help the organization in better utilization of resources

**2.4Literature survey:**

A maid hiring management system in PHP and MySQL is a project that aims to provide a user-friendly platform for managing the hiring process of maids. To conduct a literature survey for this project, various online resources such as academic articles, research papers, and online forums were reviewed. The literature review highlighted the importance of efficient management systems in the service industry, especially in the maid hiring sector. It also emphasized the need for a well-designed database management system, such as MySQL, to handle the large amounts of data generated in this field. Additionally, the literature survey identified various features that could be included in a maid hiring management system, such as job posting, candidate search, application tracking, and payment processing. The review also emphasized the importance of user experience, security, and privacy in such a system. Finally, the literature survey revealed that existing maid hiring management systems suffer from certain limitations, such as lack of automation, inadequate data analytics, and insufficient user engagement. These limitations can be addressed through the development of a robust and user-friendly system, which would provide an efficient and reliable platform for managing the hiring process of maids.

**2.5 Project Scope and Limitations:**

The scope of the project on a maid hiring management system in PHP and MySQL is to develop a user-friendly and efficient platform for managing the hiring process of maids. The system aims to automate and streamline various tasks involved in the hiring process, such as job posting, candidate search, application tracking, and payment processing. It also aims to provide employers and candidates with a secure and reliable platform to manage their interactions and communications.

The system will be developed using PHP and MySQL, which are popular web development technologies. The system will be designed to be responsive and mobile-friendly, allowing users to access it from various devices. The user interface will be designed to be intuitive and easy to use, providing a seamless user experience.

However, the project has certain limitations. Firstly, the system will only cover the hiring process of maids and will not extend to other services. Secondly, the system will not include background checks on maids, as this is a separate and specialized service. Thirdly, the system will not be responsible for any contractual or legal obligations between the employer and the maid. Fourthly, the system will not provide any guarantee or assurance on the quality of services provided by the maids.

Additionally, the project will be limited to a specific geographic area or region, as the hiring process and regulations can vary from country to country. The system will also require a stable internet connection to function properly, which can be a limitation in areas with poor internet connectivity. Lastly, the project will have a limited budget and timeframe, which can affect the number of features and functionalities that can be included in the system.

Overall, the maid hiring management system in PHP and MySQL will provide a valuable tool for managing the hiring process of maids, while being mindful of its limitations and scope.

**Limitations:**

* User interface is only in English i.e. no other language option is available.
* Internet connection is must. Lack of network issue can create problem.

**3. System Analysis:**

After carefully analysing the requirements and functionality of the web application, I had two important diagrams by the end of the analysis phase. They are the ER diagram and data flow diagram which were the basis for finding out entities and relationships between them, the flow of information.

**3.1 Existing System:**

The existing system of maid hiring in India is largely unorganized and informal, with no centralized platform for connecting employers and maids. The process usually involves word-of-mouth recommendations or hiring through local agencies, which can be unreliable and may not provide background checks on maids. The lack of standardization in the industry has also led to issues such as inconsistent wages, lack of job security, and exploitation of maids. Additionally, the informal nature of the industry has made it difficult for the government to regulate and enforce lab or laws. However, there are some online platforms that have emerged in recent years, which aim to provide a more organized and transparent system for maid hiring. These platforms allow users to post job listings, search for candidates, and communicate with potential maids.

**3.2 Scope and Limitations of existing system:**

The existing system of maid hiring in India has a broad scope, encompassing a large number of households and individuals seeking domestic help. However, the system suffers from several limitations, such as lack of transparency, low wages, inadequate training, and little job security for the maids. The system is also largely unregulated, leading to exploitation and abuse of domestic workers. The current system also relies heavily on informal networks and personal referrals, limiting access to job opportunities for maids from marginalized communities. Additionally, the system lacks proper record-keeping and data management practices, making it difficult to track and monitor employment trends and patterns. These limitations highlight the need for a more efficient and regulated system for maid hiring in India.

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**3.3 Project perspective and features:**

The aim of ‘Maid Hiring Management System in PHP ’ is to automate its existing manual system by the help of computerized equipment and full-fledge computer software, fulfilling their requirements so that their valuable date can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to handle good performance and provide better services to clients. This project can lead to error free, secure, reliable and fast management system. This system will help the organization in better utilization of resources.

**3.4 Stake holders:**

In this system taking a system’s advantage by two stake holders-

1. Admin:

* Home: In this section, admin can briefly view the total new booking, approved/assign bookings, Cancelled Bookings, and Total category of maids.
* Category: In this section, admin can manage the category (add/update/delete).
* Maid: In this section, admin can manage the maid(add/update/delete).
* Page: In this section, admin can manage the about us and contact us pages.
* Maid Hiring Request: In this section, the admin can view new maid requests, and approve and cancel maid booking requests. In this section admin also assign a maid to the booking request.
* Search: In this section, admin can search maid and booking details with the help of his/her maid ID and booking number respectively.
* Admin can also update his profile, change the password and recover the password.

1. Visitor:

* Home: It is a welcome page for users.
* About: It is an about us page of the website.
* Request for Maid: In this section, the user can send a request for a maid.
* Contact: It is a contact us page where users can check the Contact Details

**3.5 Requirement Analysis:**

1)Functional requirements:

* Authentication of user when a user wants to log in into the system.
* Verification OTP is sent to the user whenever visitor registers for the first time.
* User can only access the system with User Id and password which must to login.

2) Performance Requirement:

* + When the user inputs in the system so system get the data fast as we want.
  + If the third person wants to access the account and if he entered password 3time, he gets message that system was locked.
* The system is platform independent.

3) Security Requirement:

* The information which is puts in the system will be secured in the database.
* The User ID and password is confidentially protected on server.
* No one can access this all-confidential information about admin’s permission.
* The system is completely protected with passwords.

**4.System design**

**4.1 Design constraint:**

**Table 1:** Table Admin

| **Column** | **Type** |
| --- | --- |
| ID *(Primary)* | int(10) |
| AdminName | varchar(200) |
| UserName | varchar(120) |
| MobileNumber | bigint(10) |
| Email | varchar(120) |
| Password | varchar(200) |
| AdminRegdate | timestamp |

**Table 2:** Table Application

| **Column** | **Type** |
| --- | --- |
| ID *(Primary)* | int(10) |
| UserID | int(5) |
| ApplicationID | varchar(200) |
| DateofBirth | varchar(200) |
| Gender | varchar(50) |
| FullName | varchar(200) |
| PlaceofBirth | varchar(200) |
| NameofFather | varchar(200) |
| NameOfMother | varchar(120) |
| PermanentAdd | mediumtext |
| PostalAdd | mediumtext |
| MobileNumber | bigint(10) |
| Email | varchar(200) |
| Dateofapply | timestamp |
| Remark | varchar(200) |
| Status | varchar(50) |
| UpdationDate | timestamp |

**Table 3:** Table User

| **Column** | **Type** |
| --- | --- |
| ID *(Primary)* | int(10) |
| FirstName | varchar(200) |
| LastName | varchar(200) |
| MobileNumber | bigint(10) |
| Address | mediumtext |
| Password | varchar(200) |
| RegDate | timestamp |

**4.2 System model:**

Data flow diagrams:

**Data flow diagram level 0 –**

User Management

Application Management

Certificate Management

Login Management

**Data flow diagram level 1 –**

Check user registration

Registration Management

Check User Login Details

Login Management

Generate application form

Application Management

Generate birth Report

Verification Management

Generate System User Report

System User Management

**Data flow diagram level 2 –**

Manage New Application

Admin

Manage Verified Application

Manage Rejected Application

Manage Verified Application

Manage All Application

Manage Date Reports

Manage Register Users

**ER diagram-**

create

User

m m

Application

1

has

1

Certificate

**4.3 UML Diagrams:**

**1) Usecase Diagram-(User)**

**user**

**2) Usecase Diagram-(Admin)**

**Admin**

**3) Activity Diagram(User)**

Check login ID ,password

Manage Application Details

Logout From The System

Login to the system successfully

Invalid login ID & password

User login ID & password

User is registered

**4) Activity Diagram (Admin)**

Check login ID ,password

Logout from the System

Manage User

Manage Date Reports

Manage Reject Application

Manage New Application

Manage Verified Application

Login to the system successfully

Invalid login ID & password

Admin login ID & password

Admin is Registered

**5) Sequence Diagram (Users)**

Application database

Online Birth Certificate system

System server

Certificate

User

**** Input Account check Account

**** Account AccessedAccount Valid

**** Account Invalid

Register An Account

Fill Application Form

Birth Certificate Generate successfully

ApplicationDetails Invalid

Download Certificate

**6) Sequence Diagram (Admin)**

Online shopping system

System server

Add product

Product database

Admin

****Input Account check Account

****Account AccessedAccount Valid

**** Account Invalid

ReEnterUsernm Pass

Add User

Product List

Orders

Product Availability

**a** Add Product

**7) Component Diagram:**

Manage Date Reports

Reject Application

Admin

Login

Registration

Manage user

Verify Application

**8) Deployment Diagram**

User

Database Server

Online Birth Certificate System

**4.4 User interfaces –**

GUI (Graphical User Interface).  A GUI allows the user of a computer to communicate with the computer by moving a pointer around on a screen and clicking a button.

**Screenshots:**

**Home page**

**Search Page**

**Registration page**

**Login Page**

**Invalid Login**

**Login Successfully**

**Categories**

**Add To Cart**

**Ladies Wear Category**

**Men’s Wear Category**

**Kids Wear Category**

**Product Successfully Added in Cart**

**Cart**

**Checkout**

**About us**

**Admin Login**

**Admin Dashboard**

**Add User**

**Product List**

**Orders**

**Manage User**

**Add Products**

**Product Added Successfully**

**Delete Product**

**5. Implementation Details:**

**5.1 Software requirements-**

* Operating system: Windows
* Database: MySQL
* Server: XAMPP Server
* Backend:PHP .
* Front End: HTML , CSS , JAVASCRIPT

**Hardware requirements-**

* pentinum4
* Ram:128mb.
* Hard Disk: 10Gb 512 Cache Memory

**6.Unit Testing**

**6.1 Test Plan**

Each module is considered independently. It focuses on each unit of software as

implemented in the source code. It is white box testing.

Validation Testing:

Validation testing was per formed to ensure that all the functional and performance requirements are met.

Steps

1. Integration of all the modules/forms in the system.

2. Preparation of the possible test data with all the validation checks.

3. Preparation of the test cases.

4. Actual testing done manually.

5. Recoding of all the reproduced errors.

6. Modifications done for the errors found during testing.

**Test Case - 1**

**TEST NO.: 1**

**TEST TYPE: Unit Testing**

**INPUT: Password**

**OBJECTIVE: Checking Password Security**

**EXPECTED OUTPUT: Access to Authorized Users Only**

**ACTUAL OUTPUT: Password Security Successful**

**RESULT: Access to only Authorized Users**

**Test Case-2**

**TEST NO.2**

**TEST TYPE: Unit Testing**

**INPUT : Unverified Email during Login**

**OBJECTIVE: Validating User**

**ACTUAL OUTPUT: Raises an Error Message**

**EXPECTED OUTPUT: Verification Successful**

**RESULT: Access to only Authorized Users**

**Test Case-3**

**TEST NO. :3**

**TEST TYPE:Unit Testing**

**INPUT: Password during Registration**

**OBJECTIVE: Password Verification**

**EXPECTED OUTPUT: Error Message**

**ACTUAL OUTPUT: Error Message**

**RESULT: Access to only Authorized Users**

**6.2 Black Box Testing and Data Validation test Cases**

To perform specification testing, the analyst examines the specification, starting from what the program should do and how it should perform under various conditions. Then test cases are developed for each condition or combinations of conditions and submitted for processing. By examining the results, the analyst can determine whether the programs perform according to its specified requirements. This testing strategy sounds exhaustive. If every statement in the program is checked for its validity, there doesn't seem to be much scope for errors.

**FUNCTIONAL TEST: -**

In this type of testing, the software is tested for the functional requirements. The tests are written in order to check if the application behaves as expected. Although functional testing is often done toward the end of the development cycle, it can and should, be started much earlier. Individual components and processes can be tested early on, even before it'spossible to do functional testing on the entire system. Functional testing covers how well the system executes the functions it is supposed to execute including user commands data manipulation, searches and business processes, user screens, and integrations. Functional testing covers the obvious surface type of functions, as well as the back-end operations (such as security and how upgrades affect the system).

**VALIDATION TEST: -**

After the culmination of black box testing, software is completely assembled as a package, interfacing errors have been uncovered and corrected and final series of software validation tests begin. Validation testing can be defined as many, but a single definition is that validation succeeds when the software functions in a manner that can be reasonably expected by the customer. Validation refers to the process of using the software in a live environment to find errors. During the course of validation system may occur and the software will be changed.

**OUTPUT TEST: -**

In this output is tested by entering sample data and checking out for its efficiency

**6.3 White Box Testing or Functional Validation Test Cases**

White Box Testing is a testing technique in which software’s internal structure, design, and coding are tested to verify input-output flow and improve design, usability, and security. In white box testing, code is visible to testers, so it is also called Clear box testing, Open box testing, Transparent box testing, Code-based testing, and Glass box testing.

It is one of two parts of the Box Testing approach to software testing. Its counterpart, Blackbox testing, involves testing from an external or end-user perspective. On the other hand, White box testing in software engineering is based on the inner workings of an application and revolves around internal testing.

**7. Conclusion and recommendation:**

This project is efficient in maintaining users records and can perform operations on it. Also reduces the manual work. Also keeping all the data in one system so it is very easy to find and also maintain the record for long period of time. The all-important information will be safe and secured server. This system is secured that’s why the all the data related to the customer as well as admin will be safe all time.

**8. Future Scope:**

In future we allow customers to being a regular member of our system and we provide them more facilities as well as discounts on orders. As possible as we create an special member for more efficiency.

**9.Bibliography and reference:**

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