Website Development For Home Services

Dhrutiben Maheshbhai Sachapara[1], Rinkal Rasikbhai Virdiya[2]
[1]Dept of Applied Computer Science
[2]Asst. Prof., Dept of Applied Computer Science
[1, 2] Shree Swaminarayan College Of Computer Science, Sardarnagar, Bhavnagar,Gujarat-364001,India.

Abstract- *We offer a complete line of residential and commercial electrical services and products to serve your residential or commercial needs. The idea was to solve the day's problem of finding a local professional for fixing basic home repair problems, and to bring a change in lives of the hundreds and thousands of professionals who are skilled but jobless, or have to wander a lot to get a customer case. In today's world it's very difficult to manage time for ourselves even, let alone time for fixing things at home. This website's home services include Interiors/Renovation/Construction Services, Home cleaning, Painting, Beauty services at Home, Appliance Repairs, Pest Control, Plumbing/Electrical/Carpentry Services and a lot more. That's why we offers service to people's door-step. Home services and assistants perform a variety of tasks that help their clients. It means different things to different people. There are number of different areas that can help with. Simply people's everyday living with a variety of at home services. Be it getting a plumbing job done, Improving man's fitness through Yoga, learning to play the guitar, decorating your home or getting candid photos of wedding clicked.*

Keywords- Gives number of facilities to people, House services, Perform Variety of Tasks, working as a assistants.

I. INTRODUCTION

This website will allow any user to create an account to become a customer. The system will allow customer to search, select and appoint services. Our project allows admin to manage with full create, update and delete functionality with regards to the services in the system. The system will allow service professional and workers to register and become a member of the site. You can appoint services at your home at the time convenient to you. Now-a-days people have no enough time to work at their house. They may need to hire someone to assist with household tasks like housekeeping, laundry. Others may require additional assistance with gardening and services. Deal with your concerns and complaints quickly and effectively. Providing services to families at home and in their communities. This website provides housekeeping services which consist of Plumbers, Electricians, Carpenters, Cleaning and Pest Control etc. It also gives Personal services like beauty, spa, mobile and other appliances repairs etc.

Only Member have the rights to appoint services. Non-member have no rights for appoint the services. Non-members can see services but they cannot appoint them. This website helps to brings together a host of services under one roof. You can rent their services for home leaning, designing and even services sitting right at your home.

II. REQUIREMENT AND ANALYSIS

The requirements for the website for Locating Home Services within a Locality will be divided into functional and non-functional requirements.

Functional Requirements: Functional requirements are the capabilities,functions and basic processes that the implemented website must be able to perform. These include:

1) Create account
2) Activate account
3) Login and Logout
4) Update worker details
5) Search for a Worker
6) View worker profile
7) Requesting for services
8) Accepting and rejecting client job request
9) Rate a Worker Services

Non-Functional Requirements: These are requirements that any system can perform without but are desirable qualities that make the system interactive and user friendly.

(1) Security
(2) Performance
(3) Availability
(4) Scalability
(5) Integrity
(6) Reliability

HARDWARE SOFTWARE REQUIREMENTS

1. **OPERATING SYSTEM**

1. Windows XP, Windows 7 or later on
2. Mac OSX 10.8, 10.9, 10.10 or 10.11

2. HARDWARE

1. Processor (CPU) with 2 gigahertz (GHz) frequency or above
2. A minimum of 2 GB of RAM
3. Monitor Resolution 1024 X 768 or higher
4. A minimum of 20 GB of available space on the hard disk
5. Internet Connection Broadband (high-speed) Internet connection with a speed of 4
   Mbps or higher
6. Keyboard and a Microsoft Mouse or some other compatible pointing device
7. Sound card
8. Speakers or headphones

3. BROWSERS

1. Chrome 47 or Higher
2. Edge
3. Mozilla Firefox FF 31 or Higher
4. Internet Explorer (Windows only)
5. Safari (MacOS only)

4. SOFTWARE

1. Microsoft Office
2. Notepad/Notepad++ (Text Editor)
3. Audio and Video Player
4. Adobe Flash Player
5. Development tool: PHP, Bootstrap 4, JQuery, CSS, HTML 5
6. Database: MySQL
7. Server: Apache

III. FEASIBILTY STUDY

1. Technical Feasibility
2. Economical Feasibility
3. Operational Feasibility

1. Technical Feasibility: Information which would be static can be added to the site using html tags and can be arranged in paragraphs. The dynamic content like service details can be doneusing PHP. The XAMPP provides all support that can be used in our website. So in technical point of view the project is feasible.

2. Economical Feasibility: Cost and time are the most essential factors involved in this field of study. It helps in identifying profit against investment expected from a project.

3.Operational Feasibility: It helps in taking advantage of the opportunities and fulfills the requirements as identified during the development of the project. It takes care that the management and the users support the project.

IV. SYSTEM DESIGN

OVERALL SYSTEM DESIGN USING DESIGNING TOOLS

a) PROGRAMMING LANGUAGES

- PHP
- HTML5
- MySQL
- BOOTSTRAP4
- CSS
- JQUERY
- JAVASCRIP

b) Tools and development environment

- ECLIPSE
- APACHE SERVER

DATA DICTONARY: A data dictionary is a file or a set of files that contains a database's metadata. The datadictionary contains records about other objects in the database, such as data ownership,data relationships to other objects, and other data.

In a relational database, the metadata in the data dictionary includes the following:

- Names of all tables in the database and their owners.
- Names of all indexes and the columns to which the tables in those indexes relate
- Constraints defined on tables, including primary keys, foreign-key relationships to other tables, and not-null constraints.
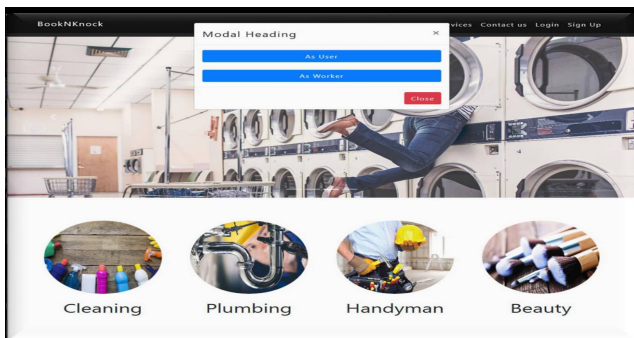
1. **Helper_master:**

Sr.no	Col_Name	Data Type	Size	Constraint	Description
1.	Id	Int	10	Primary Key	Helper id (Auto Increment)
2.	Name	Varchar	30	-	Helper name
3.	Email	Varchar	30	-	Helper Email Id
4.	Dob	Date		-	Date of birth
5.	Mobile no	Int	15	-	Helper Contact No
6.	Address	Varchar	50	-	Helper Address
7.	HelperUsername	Varchar	30	-	Helper User name
8.	Password	varchar	20	-	Password

2. **Helper_info**
3. **Services_master**
4. **User_master**
5. **User_booking_master**
6. **Helper_credential_master**
7. **User_credential_master**
8. **Services**
9. **Helper_rating_master**
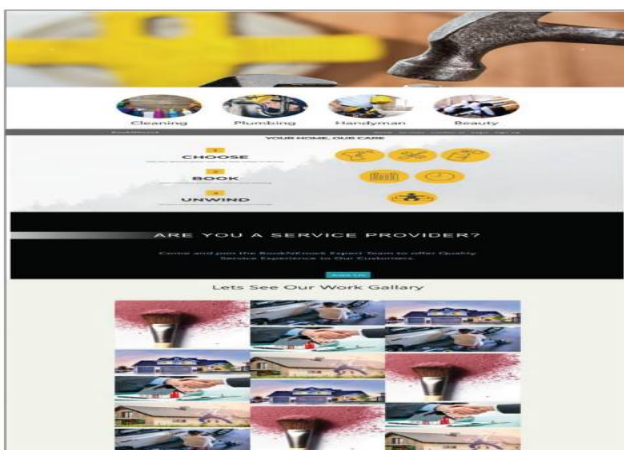
INPUT/OUTPUT DESIGN

INPUT DESIGN:

Sign Up(Modal Heading)

OUTPUT DESIGN

Home Page

V. TESTING AND IMPLEMENTATION

- **TEST CASES:**

This section outlines all the features that will be tested:

Types of user	Features Identifier	Description
User	Case-1	Worker Registration
	Case-2	User Registration
	Case-3	Book Service

CASE 1: Worker Registration
Purpose: Test that Worker can register with the proper details.
CASE 2: User Registration
Purpose: Test that User can register with the proper details.
CASE 3: Book Service
Purpose: Test that user can book service with valid worker profile information.

IMPLEMENTATION

After creating the project and successfully testing it, the most important step of SDLC is to implement my system in the server. The step is vital for the whole project because after four months of hard work put into it and testing it from all possibilities it is yet to be determined whether the project runs successfully on site or not.

Hardware/Software Interface:

This section lists the minimum hardware and software requirements needed to run the
system efficiently.

Hardware Interface: Any device which has Web browser.
Software Interface: Web Browser: Chrome 45+, Firefox 38+, Opera 30+, Internet Explorer 10+, Edge 12+, iOS 9+, Safari 9+, Android 4.4+

VI. CONCLUSION

- This is the system that offers home services to your doorstep. It eases the tasks of the administrator, workers, users, etc.
- This will allow any user to create an account to become a customer. The system will allow customer to search, select and book services.
- This website allows admin to manage with full create, update and delete functionality with regards to the services in the system.

- The system will allow service professional and workers to register and become a member of the site.
- Search for the website and register and Pick the service you want. Then Select, Date, Time and place of visit.
- Once the order is booked professionals visits your home as scheduled and completes the job. After that you pay the professionals and rate him/her on their performance.

LIMITATION OF SYSTEM

- The website is dependent on the availability of internet connectivity for users to be able to send and retrieve data, hence, Internet connectivity is required for one to use the website.
- In our website Online payment facility is not available.

FUTURE SCOPE OF SYSTEM

- Enhance User Interface by adding more user interactive features. Provide Deals and promotional Offer details to home page.
- Payment Options: Add different payment options such as PayPal, Cash, Gift Cards etc. Allow to save payment details for future use.
- Worker Location: Allow to find and choose a nearby Service provider.
- Add to Cart: Allow user to add services to cart.
- Text Messages(SMS): Add text message facility.

REFERENCES

Websites

[1] Google.com
[2] W3school.com
[3] Tutorialspoint.com
[4] Stackoverflow.com
[5] Youtube.com
[6] Learning PHP, MySQL & JavaScript by Robin Nixon: Shroff publisher & distributers private Limited-Mumbai;2015
[7] Modern PHP by Josh Lockhart: O; Reilly Media;2015
[8] Node.js in Practice by Alex Young & Marc Harter: Dreamtech Press;2015
[9] Learning PHP,MySQL &JavaScript With jQuery,CSS & HTML5 5th Edition by Robin Nixon: O'Reily Media;2018

AUTHOR PROFILE

Dhrutiben Sachapara received the B.C.A degree in computer application from Shree Swaminarayan College of Computer Science, Bhavnagar in 2020.

Rinkal Viradiya received the B.C.A degree in Shree Swaminarayan College of Computer Science, Bhavnagar in 2020.