TRUSTED HANDS

A project submitted to

CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY
BHILAI CHHATTISGARH (INDIA)

For the partial fulfillment of degree

MASTER OF COMPUTER APPLICATIONS (MCA)

By

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Under the Guidance of
Dr. Sanjeev Karmakar

ASPIRE TO EXCEL
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DEPARTMENT OF COMPUTER APPLICATIONS,
BHILAI INSTITUTE OF TECHNOLOGY DURG,
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Session: 2020-2021

DELCLARATION BY THE CANDIDATE

I, **Mousami Dahare,** Student of 6th Semester MCA, **Bhilai Institute of Technology, Durg, C.G., India**, bearing Enrollment Number **BG2063,** hereby declare that the project entitled **Trusted Hands (Online Service Providing System)** has been carried out by me under the Guidance/Supervision of External Guide **Pramod Shukla**, **Project Manager** submitted in partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications (MCA) by the Chhattisgarh Swami Vivekanand Technical University during the academic year 2021. This report has not been submitted to any other Organization/University for any award ofDegree/Diploma.

(Signature of Candidate)

Date:

Place:

CERTIFICATE OF FORWARDING

This is to Certify that **Mousami Dahare**, a bonafide Student of Master of Computer Applications (M.C.A) at Bhilai Institute of Technology, Durg, C.G, India , has carried out his project work as mentioned in this project entitled " **Trusted Hands (Online Service Providing System)**" at " **Bhilai Institute of Technology**" , during her sixth semester of studies in MCA as a part of a curriculum for obtaining the degree of M.C.A from Chhattisgarh Swami Vivekanand Technical University (CSVTU), Bhilai, C.G., India to which the institute is affiliated.

This Certificate Issued by the undersigned does not cover any responsibility regarding the statements made and work carried out by the concerned student.

The current dissertation is hereby being forwarded for evaluation for the purpose for which it has been submitted

Signature of Project Coordinator

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Designation: Associate Professor
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Date:

Signature of Head of Department

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CERTIFICATE OF APPROVAL

This is to Certify that the project the entitled "**TRUSTED HANDS**", carried out by "**Mousami Dahare**" a student of 6th semester, M.C.A. at **Bhilai Institute of Technology, Durg, C.G., India**, is hereby approved after proper examination and evaluation as a creditable work for the partial fulfillment of the requirement for awarding the degree of Master of Computer Applications (M.C.A) from Chhattisgarh Swami Vivekanand Technical University (CSVTU), Bhilai C.G. India.

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Date:

ACKNOWLEGEMENT

I have great pleasure in the submission of this project report entitled **TRUSTED HANDS (ONLINE SERVICE PROVIDING SYSTEM)** for Bhilai Institute of Technology, Durg in partial fulfillment the degree of the degree of Master of Computer Applications. While submitting this Project report, I take this opportunity to thank those directly or indirectly related to project work.

I would like to thank my Internal guide **Dr. Sanjeev Karmakar** and External Guide **Pramod Shukla** who has provided the opportunity and organizing project for me. Without her active co-operation and guidance, it would have become very difficult to complete task in time.

I would like to express sincere thanks to **Dr. Arun Arora, Director, Dr. Mohan Kumar Gupta, Principal, and, Dr. Ani Thomas**, Head of Department, (Computer Applications).

While Submission of the project, I also like to thanks to **Mrs. Shweta Kharya** Project Coordinator and the all Professors of Bhilai Institute of Technology, Durg, C.G., India, for their continuous help and guidance throughout the course of MCA.

Acknowledgement is due to our parents, family members, friends and all those persons who have helped us directly or indirectly in the successful completion of the project work.

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III) Project Information

Title of the project	Trusted Hands
Type of project	Online Service Providing system
Team size	One
Subsystem title	Household Service Providing System
Date of opening	29th April 2021

Table of Contents

		3.5.2. Dynamic Performance.		
	3.6.	Design Constraints Standards Compliance Hardware Limitations Reliability and Fault Tolerance. Security.		
4.	**SYSTEM DESIGN**			
	4.1. Class/Object model.			
		4.1.1.	Data dictionary containing description of class attributes (data members, and methods)	
		4.1.2	Association between classes./aggregation diagram	
		4.1.3.	Object diagram.	
	4.2.	Dynamic model.		
		4.2.1.	Event Flow Diagram (EFD).	
		4.2.2.	State Diagram (SD) for each classes.	
	4.3.	Functional model.		
		4.3.1.	Use Case Diagram (UCD).	
		4.3.2	DFD as needed to show functional dependencies.	
	4.4.	Database Design		
		4.4.1.	E-R Diagram.	
5.	**IMPLEMENTATIONS**			
	5.1.	Operating system (OS) used (Including explanation).		
	5.2.	Coding language used (Including explanation).		
	5.3.	RDBMS used (Including explanation).		
	5.4.	Table Relationship Diagram.		
	5.5.	Database connectivity procedure.		
	5.6.	Code description.		
	5.7.	Input/output interfaces (Screen shots).		
6.	**SOFTWARE TESTING (Test cases)**			
	6.1	Software testing tools used (if any).		
	6.2.	Black-box testing.		
		6.2.1.	Unit (Program) testing.	
		6.2.2.	Sub-system testing.	
		6.2.3.	System testing.	

1. INTRODUCTION

1.1 Project description

In this fast growing technology when someone need aid with small but major household tasks related to our daily life like plumbing, mechanical, electrical, electronic, pest control etc, the trouble arises when service skilled persons are unavailable or the trusted providers are impossible to find, who delivers consistently flawless service on instance. As the Covid-19 pandemic is continued, we are not getting any service on time and it is also not secure in terms of safety concern.

Trusted Hands is an online system for household services which provide PC Grid Solution focused on the workers of unorganized sectors like mason, carpenter, plumber, painter etc. as the most expedient and annoys free way to get your domestic work done. We aim to help in providing optimal solutions to all your household troubles with more efficiency, ease and majorly, a delicate touch. A single click system describes booking highly skilled in-house professionals and gets your service done on time. Customers' overall willingness to pay is significantly and positively correlated with the expectation that fee-based services would be better, and with the belief that "pay for what you get" is the right thing to do. Keeping that in sense our proposed system is basically a marketplace for household services and it is the platform where the rates were standardized and there is no necessitate haggling over prices. Several aspects like painting, pest control, home cleaning, plumbing, electrical works and carpentry services are involved in a system to provide happy and healthy home atmosphere in order to satisfy consumers.

The primary objective of Trusted hands online system is about delivering the home services at the door step just by one click as a web solution through worker register themselves for a specific skill. Using this information, users, contractors or organized sectors can select the workers as per their need. At the time of worker selection, company or user can view the worker skill, references given by those who have taken their service in the past, work location and availability of particular workers. System sends email to selected workers regarding work and customer details. A worker confirms either through phone or this system and either fixed up meeting or work start date. Organized sector user or general public can rate worker skill, charges, particularity about time, dedication, behavior, habits etc through this system. And also User can select Contractors in this site. So Contractor also registered with in this site, after that Contractor also search or select the user with specific skills. Users can put their demands regarding particular skill workers along with project location, and project details.

1.2 Company Profile

Logixhunt **-** Is a group of young, enthusiastic brains which have a fire for innovation delivering the best web solutions via for the last few years with the motto of "To Provide Technology for Everyone & Make Life Ease with Technology". They help startups and organizations to successfully develop and launch digital products and web-based software applications. They have no sales people, no project managers and no account managers. There are no extra layers of management separating customer from the people who get the job done. They don't employ coders, testers, or junior people either. All developers are experienced at a system architect level. These people are more likely to "get it right" first time, not only because they understand goals better, but also because they can spot the gaps and omissions in your requirements, and find the best solutions to your problems.

Our team structure ensures the most transparent processes, direct communications, short feedback loops, and fast issue resolution. It also creates a level of motivation and responsibility that you simply won't find in larger organizations. We combine our knowledge and expertise to create exceptional designs and strategies, tailored to your business's needs and requirements. No one understands your business better than you, which is why the work we do with our clients is collaborative. By working with you we apply our knowledge to your strategy and branding guidelines, to create a final product that you and your customers/users will love. We always are keeping good relationship with our clients and assure the best services from our end and looking for long term business relationship with our clients.

2. SYSTEM STUDY

2.1 Existing System

In the present e-market there are many Online Service Providing Websites which allow User or companies, Worker. There are many popular household Service Providing sites like Bro4u.com, UrbanComapnay.com, HouseForJoy.in, mr.right.com, easyfix.in, TimeSaver.com, TaskRabbit.com, Rinse.in and soon. The existing system works in the mechanism which has problems that they do not provide all the necessary services at one place for worker, contractor as well as public user such as painting and mechanical services are kept apart. Some Existing system Problems are:

- Consume large volume of pare work. .
- No parameter for condition checks Quality Service.

2.2 Proposed System

The Trusted hands portal provides a system where Users can find worker various skills and semi skills

within the system and can easily search for contractors also. Users and contractors can give the feedback of the worker performance which will be useful for the remaining users and contractor who are searching for a worker. By using contact information of worker, general public can communicate with workers from home only. Communication is possible among the workers, general public, contractors, and administrator. Contractors can find a worth full workers based on the feedback given by public users about their work and can also give the feedback about worker. Workers can present their multi skills information within site. No more bargaining with the customers, because charges are fixed. They can easily register in the site with their skills and semi skills with a free of cost. No advertisement charges for the workers.

- Security of data.
- Ensure data accuracy's.
- Proper control quality of Service and Worker Skills.
- Minimize time needed for the various processing.
- Greater efficiency.
- Better service.
- User friendliness and interactive.
- Minimum

2.3 Feasibility Study

Technical Feasibility: Compatible [Software and hardware require for this project is globally available]

Economic feasibility: This project is developing at minimum cost such that all type of Customer which is unorganized workers, contractors and general public user, all can easily afford it.

Behavioral feasibility: This web portal is very user friendly and provides a PC Grid solution focused on the workers of unorganized sector includes mason, carpenters, plumber, painter etc. PC Grid is solution through which workers register themselves for a specific skill.

3. SOFTWARE REQUIREMENT SPECIFICATION

3.1 Introduction

3.1.1 Purpose of SRS

The purpose of this SRS document is to provide a detailed overview of our software product, its parameters and goals. This document describes the project's target audience and its user interface, hardware and software requirement. It also states how much of the software is covered by the document, particularly saying whether it describes the entire software system or only part of it. It also states the intended readers of the document.

Trusted hands or Online House Service Provider is an application which is intended to provide complete solution for Contractors, worker as well as customers through a single gateway using internet as the sole medium. A System provides variety of services like plumbers, movers and packers, repair persons, electricians, painters, and many more. To make it comfortable for all the users, in our system very simple process is carried out to book services and our system is specialized with providing a confirmation email about the selected service. People can choose the particularity of service required by uploading the image of desired specification. System is versatile as service can be booked from everywhere to anywhere you desire.

3.2 Overall Description

3.2.1 Product Perspective

This online website depends on e-specialist organization which is a remarkable method of bringing Workers, Contractors and client or organization on an online stage to make Services in a got and productive way. This online site offers diverse fundamental types of assistance dependent on their category. The categories are fix administrations, mechanical, handymen, painter, Covid sanitizer and so forth.

3.2.2 Product Functions

There are major two functions of the project model basically:

- The Workers, public users, company sectors or contractors will undergo the registration procedure by specifying the identity proof, skills, education, experience, and address-proof and obtain a username and password, which is used for further transactions.
- The worker is registered in this site itself. Worker can able to update the details, experience, location, skills which is been added during the registration procedure. The worker can communicate with other users like Admin, contractors, general public.

3.2.3 User Characteristics

- The user, worker, contractor and company should be familiar with the internet.
- The user, worker, contractor and company should be familiar with online terminology like booking system, profile making and maintaining, login credentials, payment gateway etc.

3.2.4 Constraints, Assumptions and Dependencies

- The Worker, contractor should be familiar with the internet.
- The user should be familiar with the basic terminology like booking system, login, e-payment etc.
- There is no maintainability of backup so availability will get affected.

- No multilingual support.
- The User and Contractor must confirm the user id and contractor id respectively.
- Limited number of search queries for the user. Server incapable of handling high traffic burst.

3.3 Non-Functional Requirements

3.3.1 External Interface Requirement

- Front End- HTML, CSS, BOOTSTRAP, JavaScript,
- Back End- PHP, MYSQL (XAMPP)
- Server Installation- Apache

3.3.2 User Interface

Logical Characteristics - The GUI shall be designed in HTML/PHP, allowing a multitude of different user's access. The HTML design will remove most limits of access because every popular operating system has HTML viewing capabilities.

Aspects - The system shall have content that will only be viewable to the user if they are logged in correctly. Also, there shall be different types of users having different accessing/viewing/modification privileges. For instance: 'Public User and Contractor: will be able to book worker for suitable work.' Also: 'User: will be able to keep their profile updated.'

3.3.3 Hardware Interfaces

Users of this system will be able to access Service Providing Portal on their client systems

- INPUT DEVICE - Desktop, CPU, Mouse, Keyboard
- Processor: Dual core processor
- RAM: Min 2 GB
- Hard Disk: 250 GB

3.3.4 Software Interfaces

- Database – MYSQL
- Backend – PHP
- Front End- HTML, CSS, JQuery, Bootstrap

3.3.5 Communications Interfaces

To access the portal internet connectivity will be needed at both server side as well as client side.

3.4 Functional Requirement

3.4.1 Subsystem 1

3.4.1.1 Login Validation

I/O type:-

Variable	Datatype
Username	Varchar[10]
password	Varchar[8]

Public User, Admin, Worker, Contractor/ Company will enter Username and password to validate authentication of particular user.

3.4.1.2 Public User Registration

I/O type:-

Variable	Datatype
User_ID	integer
password	Varchar[8]
Name	Varchar[20]
Age	integer
Gender	Varchar[5]
Contact	integer
Email	Varchar[15]
Address	Varchar[40]
city	Varchar[10]
pincode	integer
state	Varchar[10]
Address Proof	Varchar[20]
Identity proof	Varchar[20]

New Public User will register himself by providing above details so that when worker or contractor request for user details following information would be displayed.

Public user has the facility of updating as well.

3.4.1.3 Worker Registration

I/O type:-

Variable	Datatype
Worker_id	integer
Password	Varchar[8]
Name	Varchar[20]
Age	integer
Gender	Varchar[5]
Contact	integer
Email	Varchar[15]
Address	Varchar[40]
city	Varchar[10]
pincode	integer
state	Varchar[10]
Address Proof	Varchar[20]
Identity proof	Varchar[20]
skills	Varchar[30]
experience	Varchar[35]
education	Varchar[40]
Worker charge	Varchar[100]

Worker will enlist himself by giving above subtleties so when Public User or contractor demands for Worker subtleties following data would be shown. In the data Experience, abilities are primary perspectives as by which user and contractor will consider worker as handy and select them for reserving for services.
Worker has the office of Updating subtleties further too.

3.4.1.4 Rating/ Feedback

I/O type:-

Variable	Datatype
User_id	integer
Worker_id	integer
feedback	Varchar[30]
Work experince	Varchar[40]
rating	integer
recommend	boolean

This module is for users where he will give his valuable add on to workers profile by providing rating and feedbacks of the worker and work experience as well in detail.
This detail will help worker profile for enhancement and make skills of worker more certified.

3.5 Performance Requirements

3.5.1 Static Performance

The system consists of two main users, admin. The system can use multiple ways to display the details of particular product.

3.5.2 Dynamic Performance

With the help of multiple terminal users can register their data and get information according to it. System consist of several operations like add product dynamically , delete and update order, place order, sort product according to category, free books access, place free for donating books and repair shop links etc.

3.6 Design Constraints

3.6.2 Hardware Limitations

- Minimum device required for development of system:-
- Processor: Dual core processor
- RAM: Min 2 GB
- Hard Disk: 250 GB

3.6.3 Software Limitations

- Development tool/ editor: Sublime /Notepad++ or any other text editor
- Server: XAAMP server
- Database: SQL server database
- Browser: Chrome/Firefox or any other browser

3.6.4 Recovery: Not Applicable

3.6.5 Security

Confidentiality: Each user can login through its own username and password.

Database Security: Based on the service provider.

Cryptography: No

4. SYSTEM DESIGN

4.1 CLASS/OBJECT MODEL

4.1.1 DETAIL DESIGN

S.No	Program Name	Purpose	List Of Variables	Methods
1.	Login Validation	For validation purpose	char username[20]; char password[10];	getdata();

2.	Public User Registration	To register new public user and for keepings user details.	int user_id;
			char password[10];
			char name[20];
			char father[20];
			int age;
			char gender[5];
			int contact;
			char email[15];
			char address[40];
			char city[15];
			int pincode;
			char state[30];
			char address_ proof[40];
			char identity_proof[40];
				getdata();
				putdata();
				update();
				user_detail();
				display();

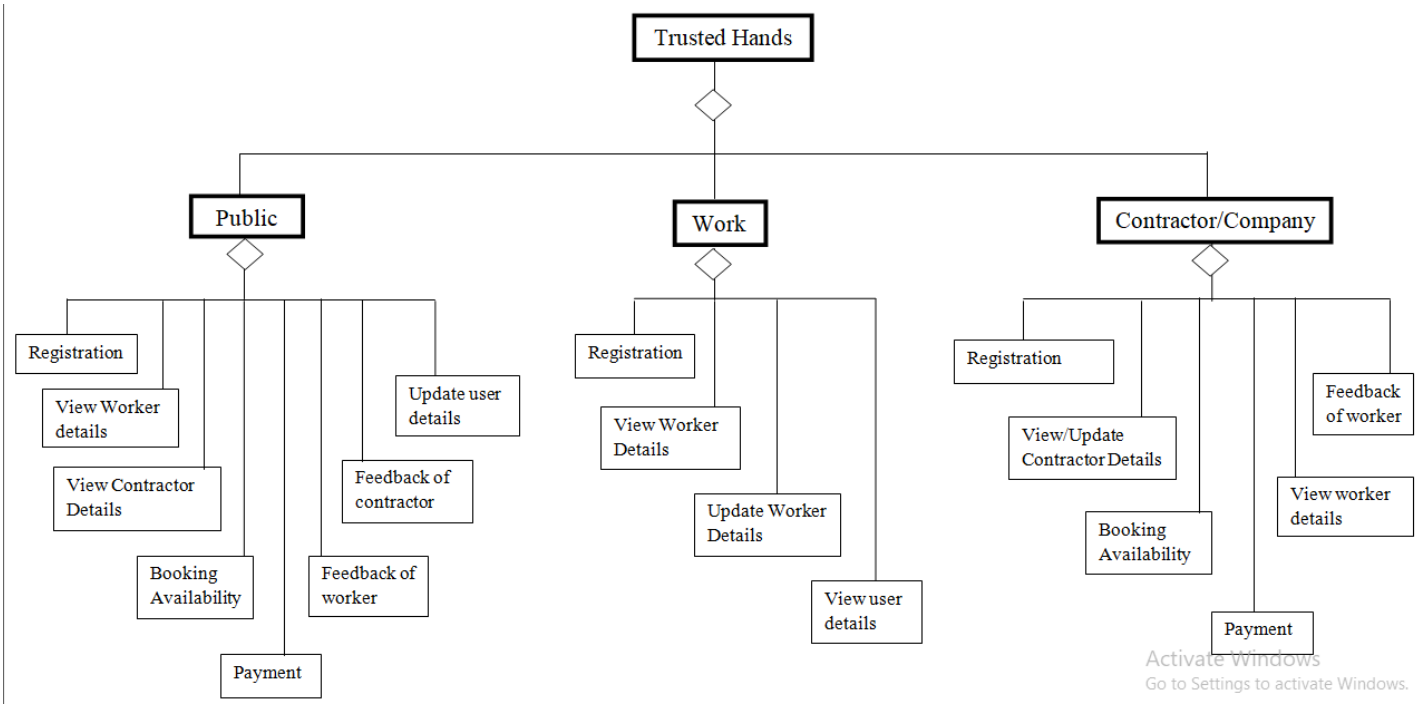
3.	Worker Registration	To register new worker and keep the record for view purpose of public user , contractor and company	int worker_id;
			char password[20];
			char name[20];
			char father[20];
			int age;
			char gender[5];
			int contact;
			char email[15];
			char address[40];
			char city[15];
			int pincode;
			char state[30];
			char address_ proof[40];
			char identity_proof[40];
			char skills[30];
			char experience[30];
			char education[30];
				getdata();
				putdata();
				update();
				worker_detail();
				display();

4.	Service Booking Details	This is for booking details when user books worker for specific category of service	int user_id;
			int worker_id;
			char category[20];
			char service_name[20];
			char work_details[50];
			int shift_time;
				getdata();
				display();
				worker_service();

			int service cost; char work location[40]; char acknowledgement[20]; char payment [20];	

5.	Rating/ Feedback	This is for user when it provide its valuable feedback for worker	int user_id
			int worker_id
			char feedback[40];
			char experience[40];
			int rating;
			char recommend[30];
				getdata();
				update();
				display();

4.1.2 AGGREGATION



4.1.3 Group classes into module

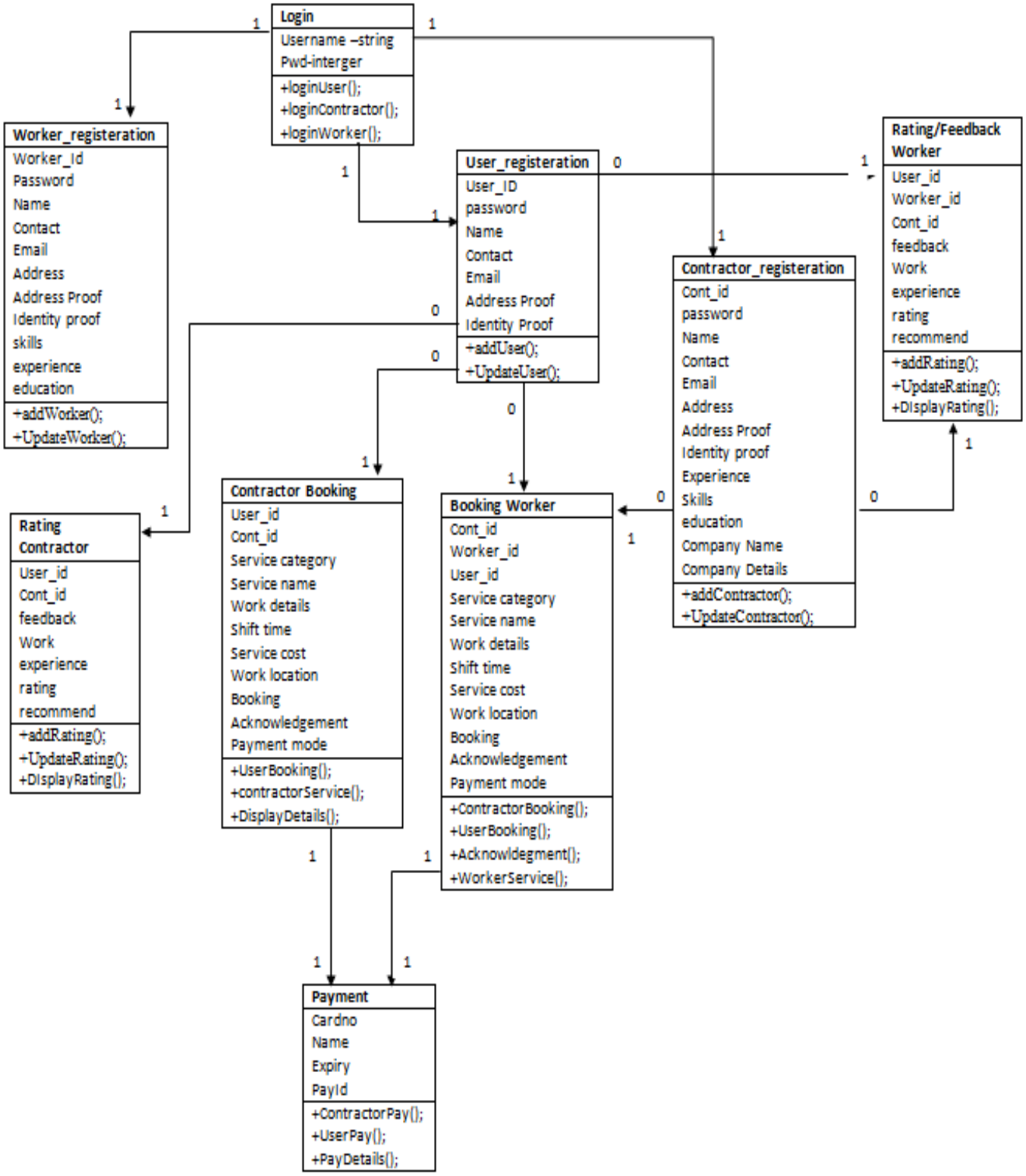
1. **Public User Interface**

- Register as User
- Update and Maintain profile
- View worker details
- Book worker for work
- Provide Rating and Feedback

2. **Worker Interface**

- Register as worker
- Update / maintain worker details
- View user details

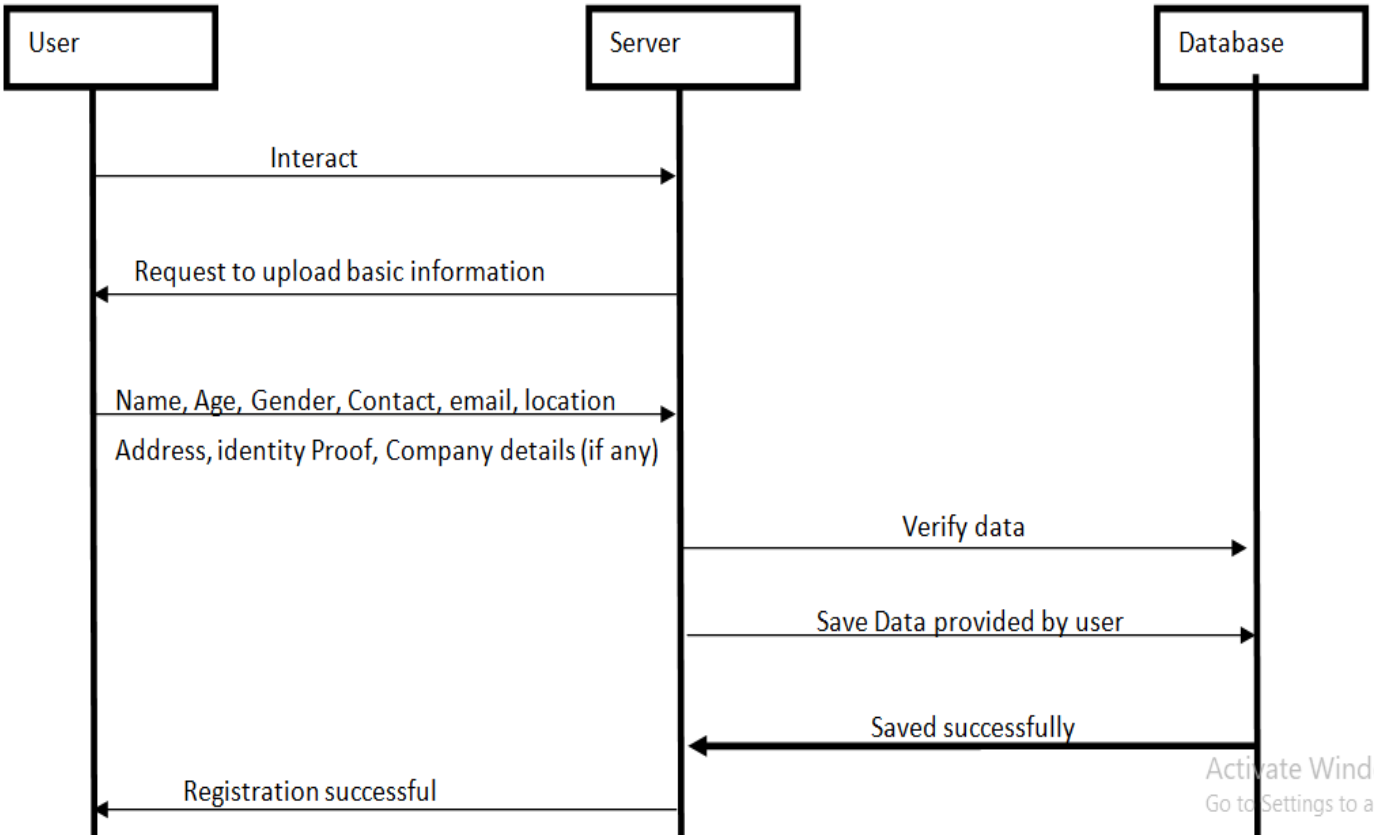
4.1.3 Class Diagram



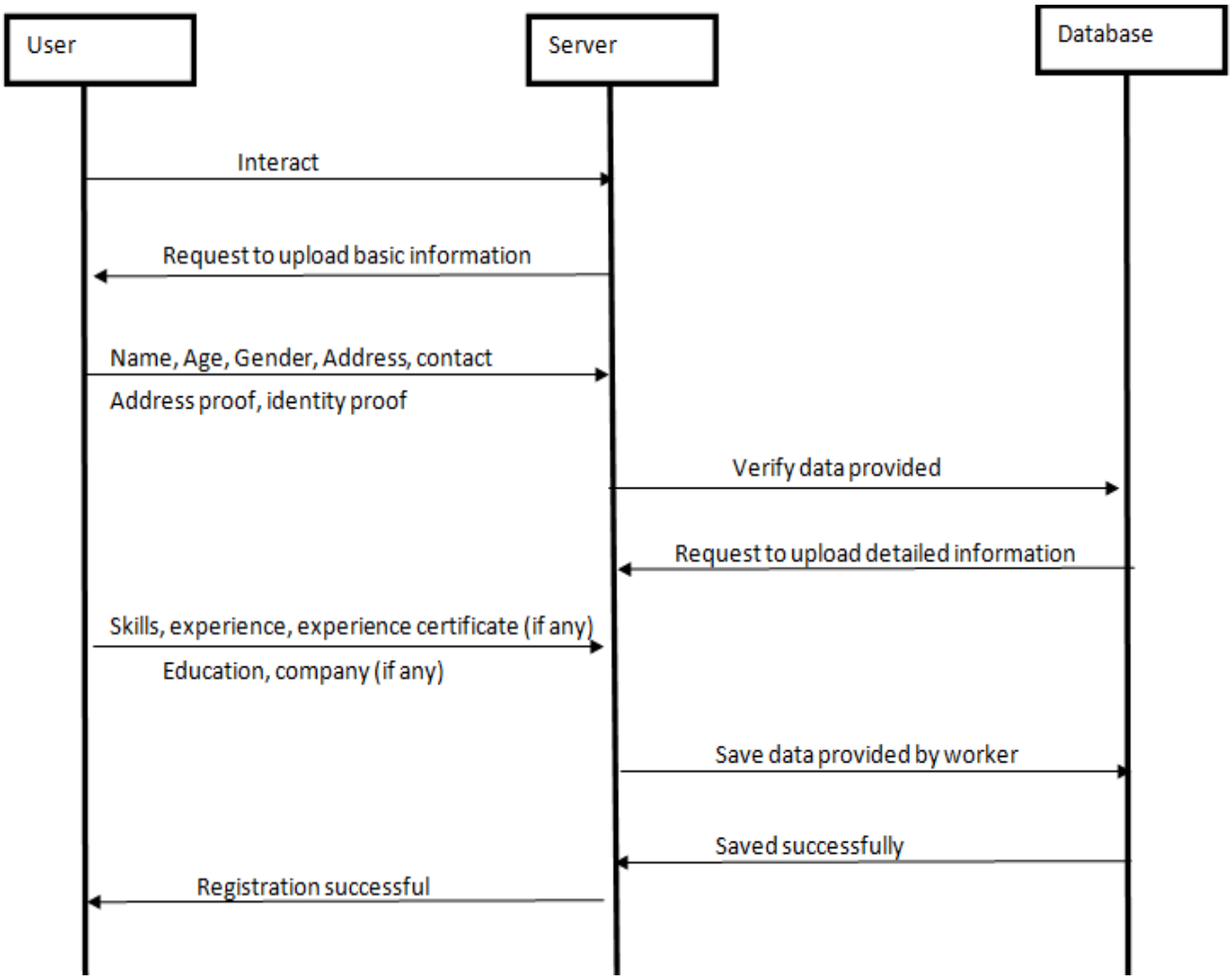
4.2 Dynamic model

4.2.1 Event Scenario

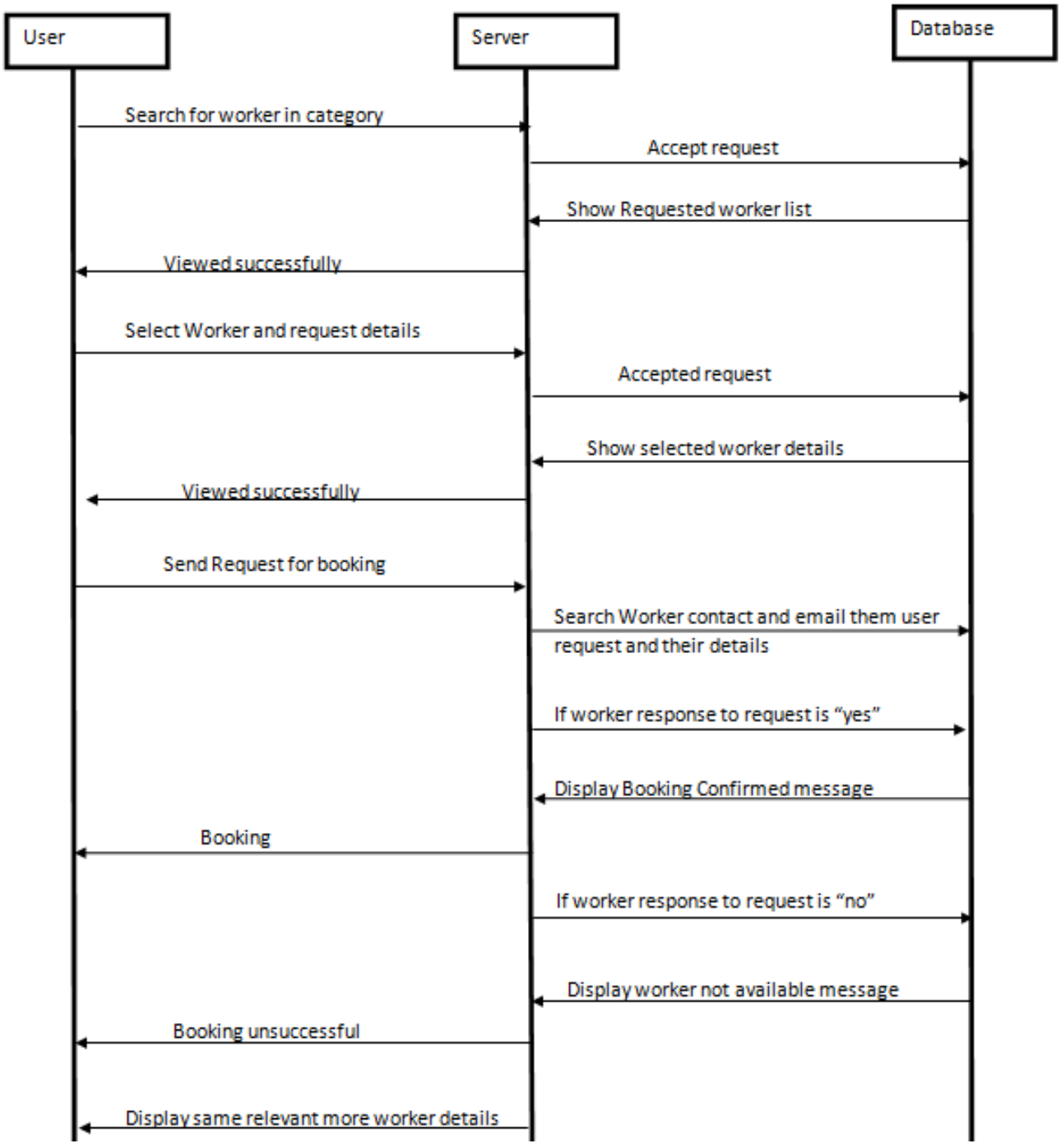
- **Registration[Public User]**



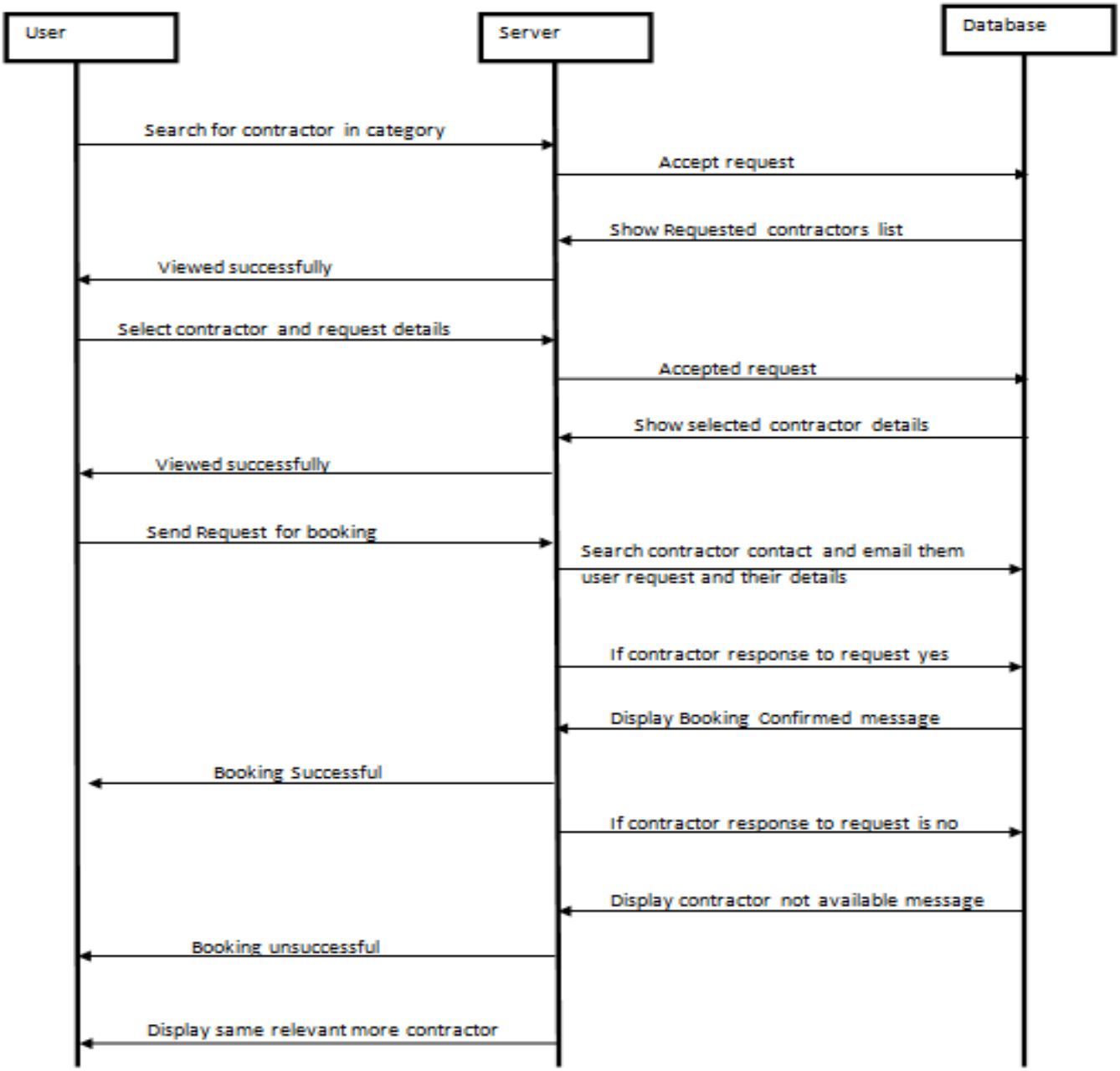
- **Registration for Worker**



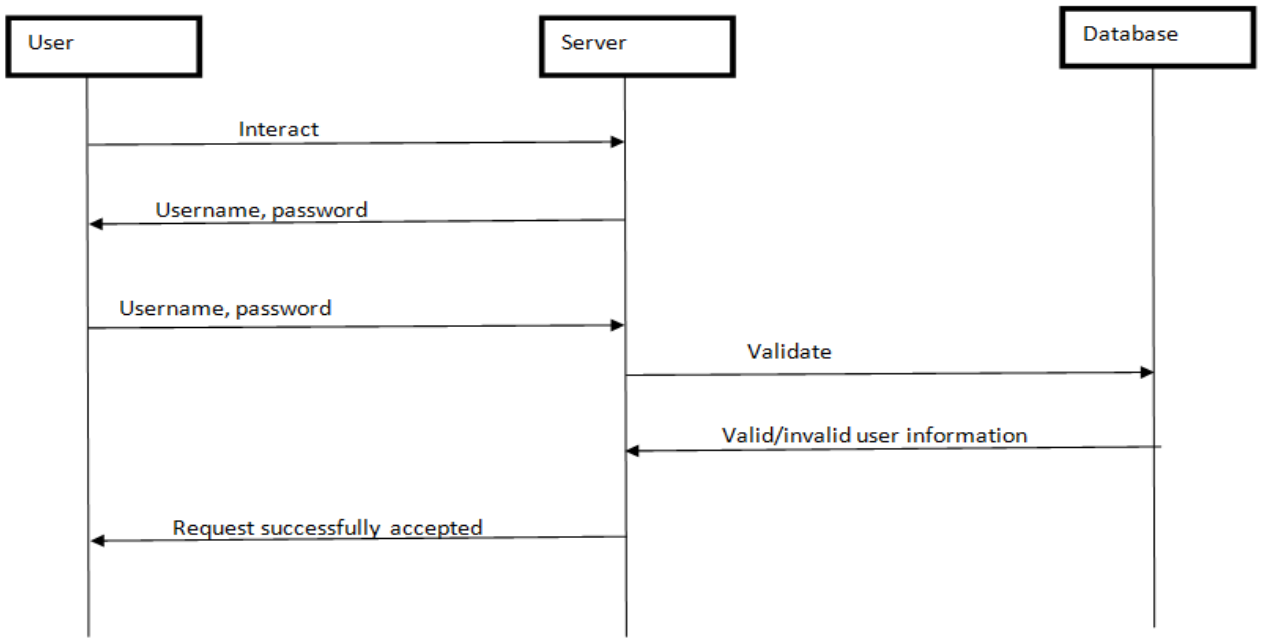
- **Login[Worker/ Public User]**



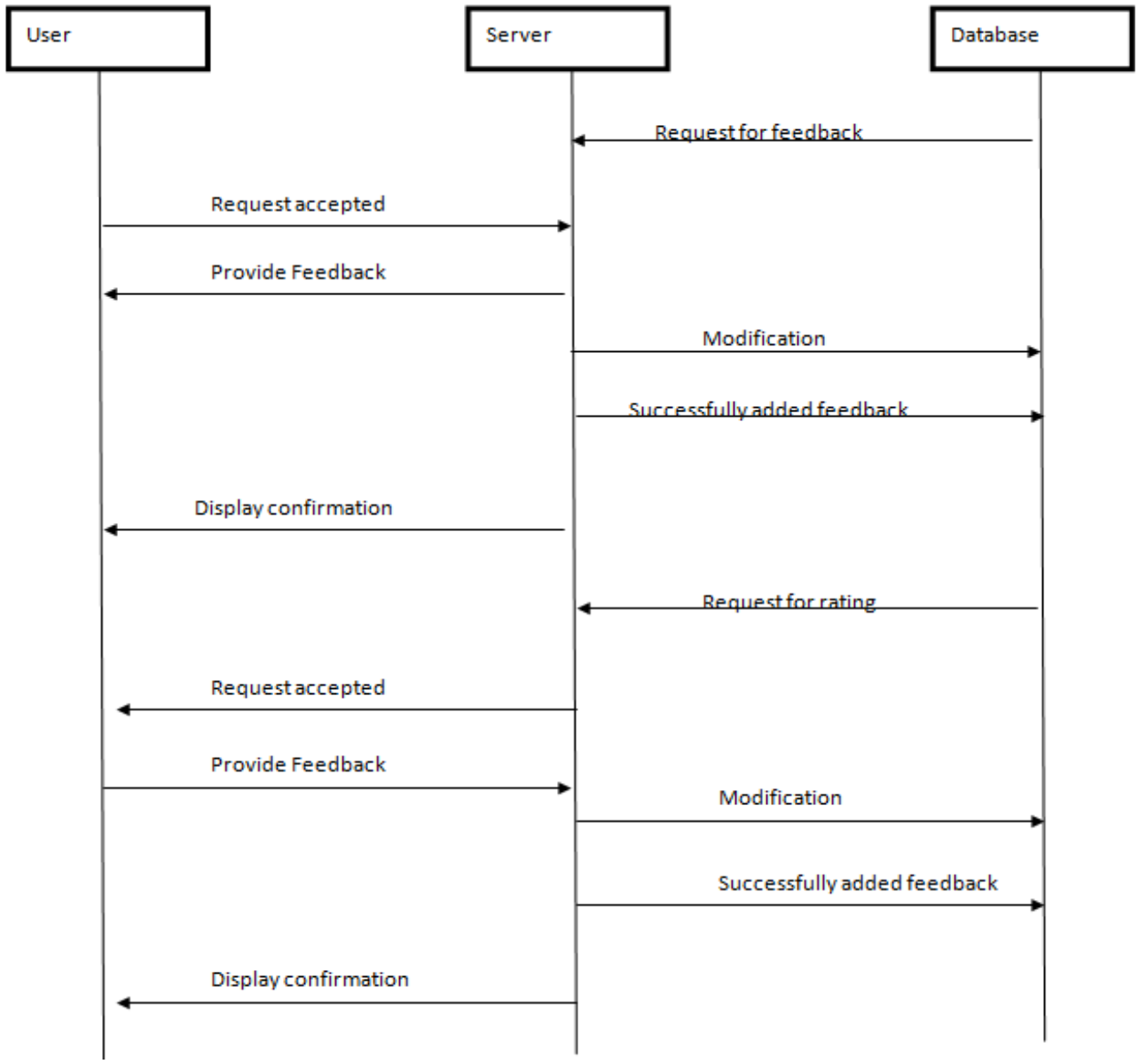
Booking By Public User



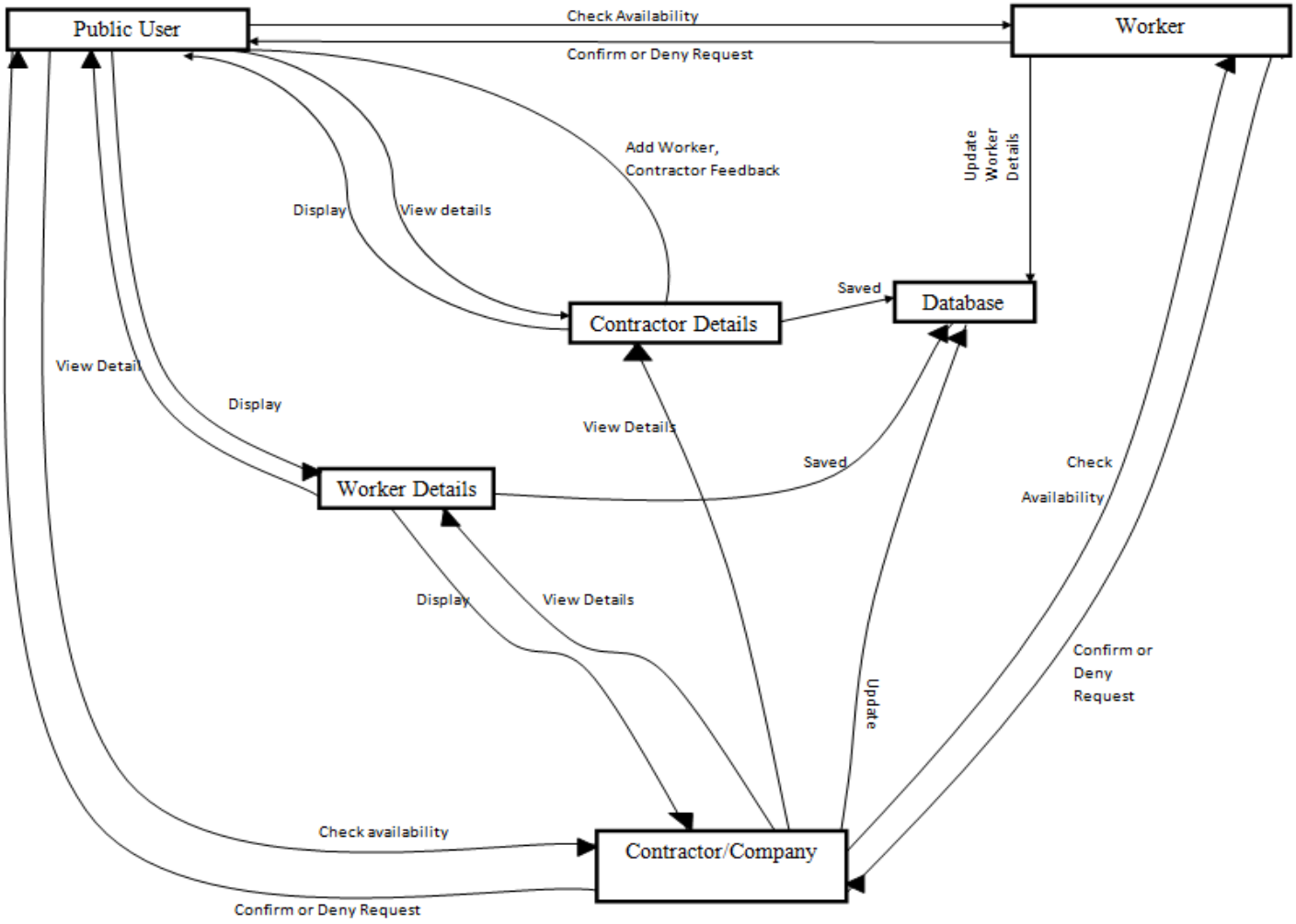
- Worker Management



- Feedback And Rating Management



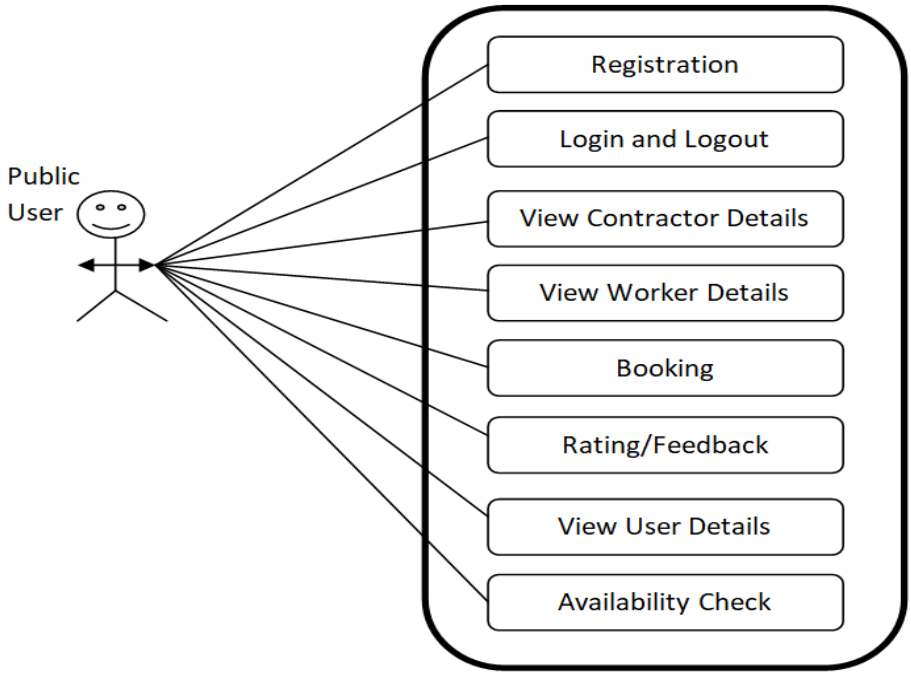
4.2.2 Event Flow Diagram (EFD)
Collaboration Diagram



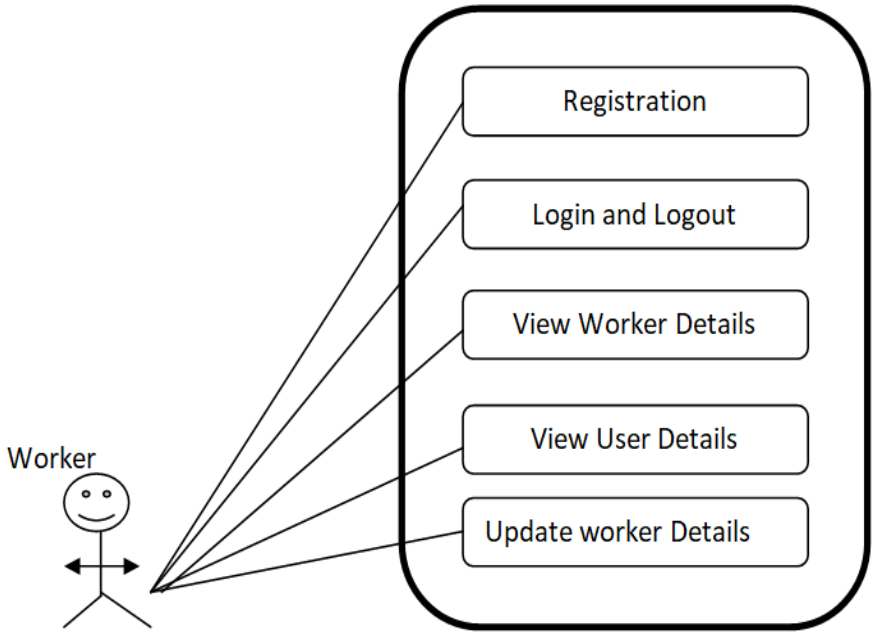
4.3 Functional model

4.3.3 Use case diagram

- **Public user**

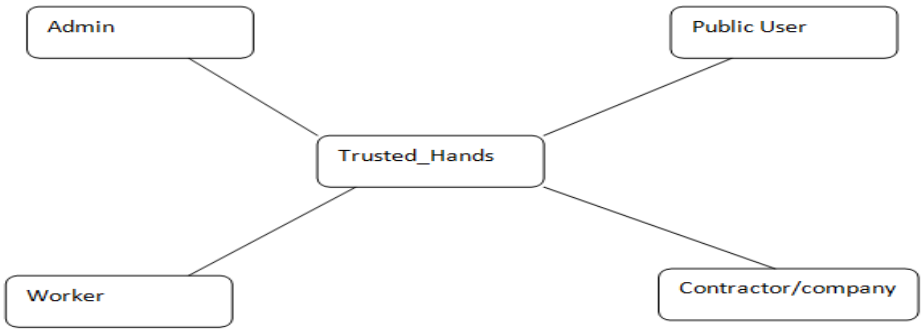


- Worker

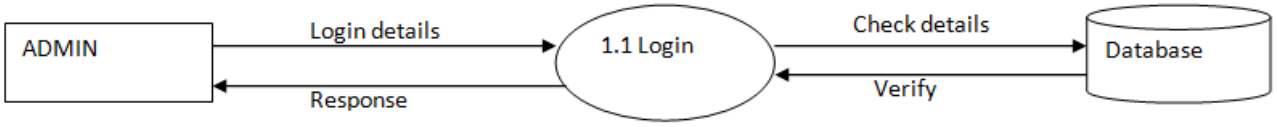


4.3.2 Data Flow Diagram

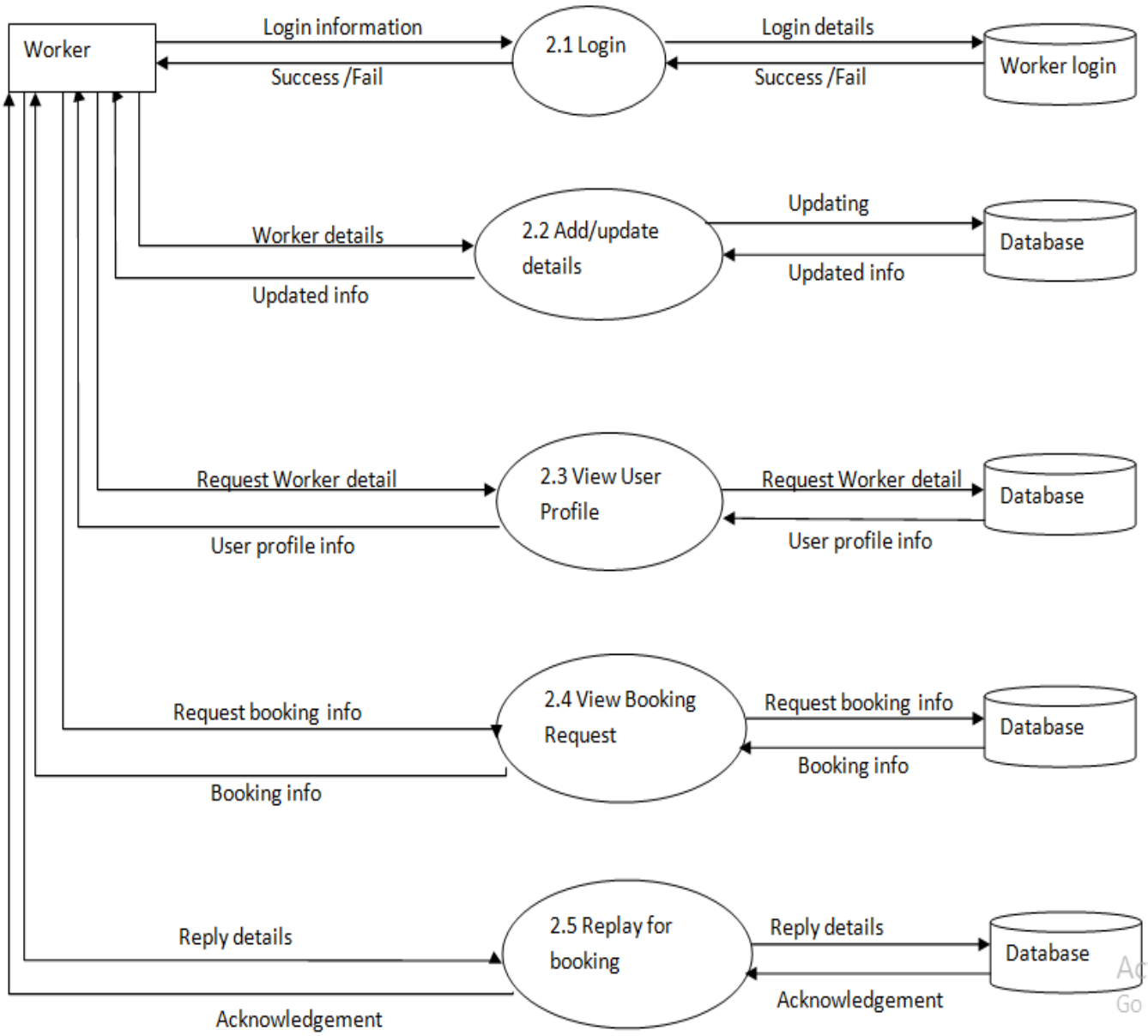
- Context Level DFD



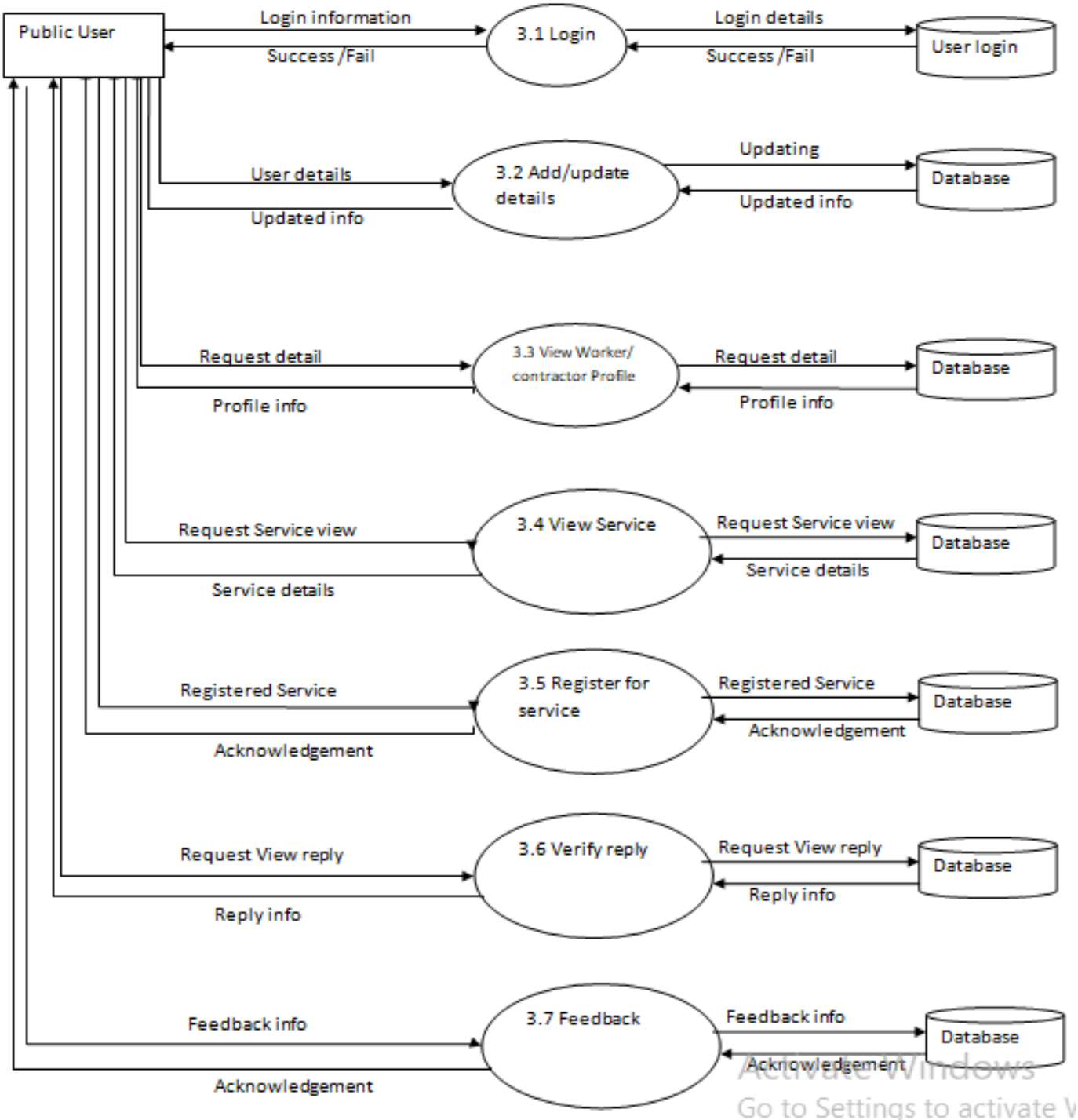
- First Level DFD {ADMIN}



- Second Level DFD{Worker}

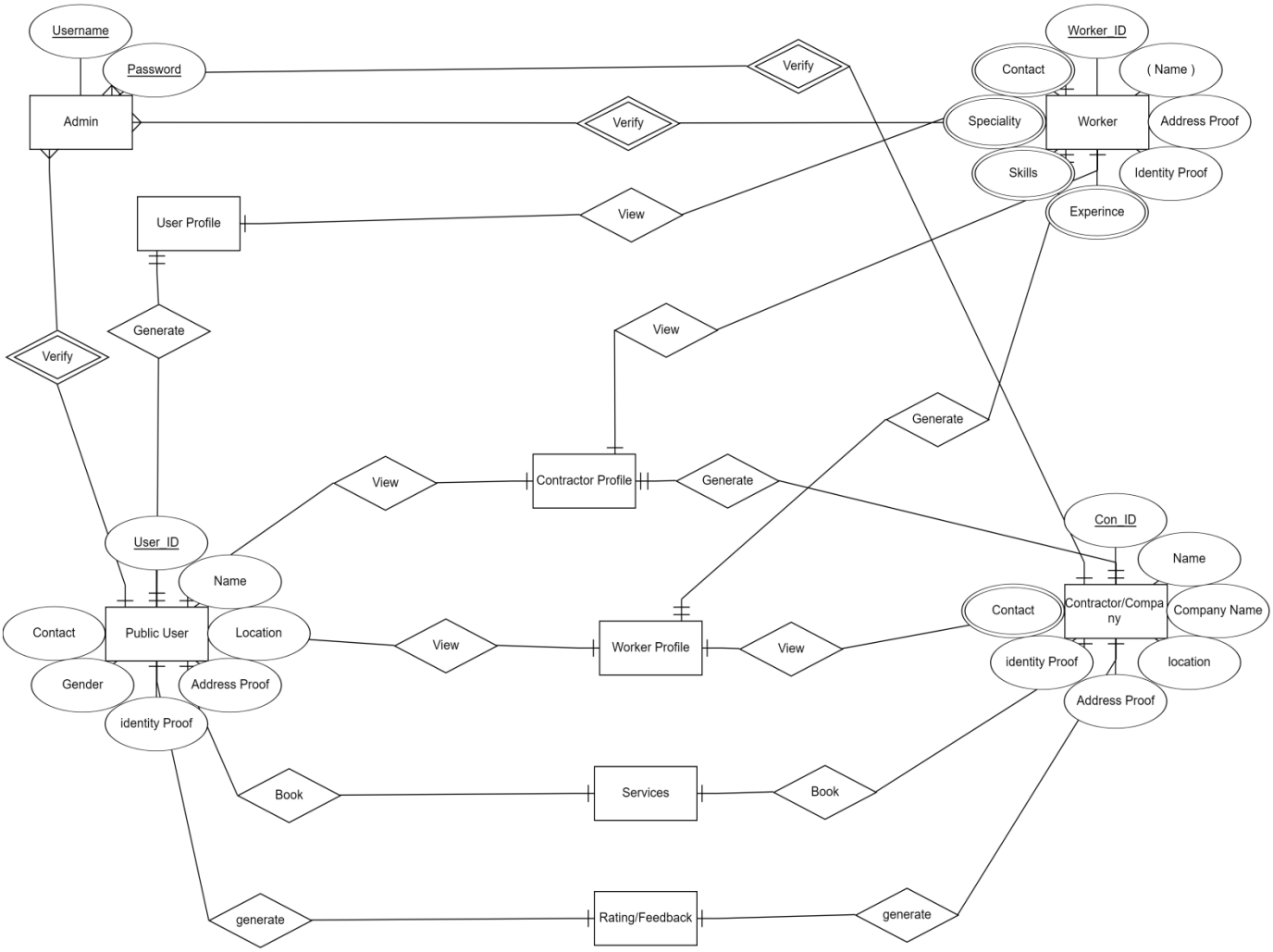


- Third Level DFD {Public User}



4.4 Database design

4.4.3 E R Diagram



5. IMPLEMENTATIONS

5.1 Operating system (OS) used (Including explanation)

Here we are using Microsoft windows operating system to implement our project on it. We are using Microsoft windows 10 operating system because

- Windows, which is an operating system for computers. It is more reliable, compatible and fast. It is user friendly too.
- Offers an environment in which a user may execute programs/applications.
- It has many user support drivers.
- It provides the computer system resources with easy to use format.
- **Hardware: -** Processor Intel(R) Core(TM) i3-4005U CPU @ 1.70GHz 1.70 GHz
- **Internet Connection: -** Existing telephone lines, Data card.
- **Browser: -** Google Chrome, Firefox, Internet Explorer all in latest version.

5.2 Coding language used (Including explanation)

Here we are using PHP as our programming language and using HTML & CSS for the design purpose.

➢ PHP

- PHP is a widely-used, open source scripting language, php scripts are executed on the server.
- It is powerful enough to be at the core of the biggest blogging system on the web(WordPress)
- It is deep enough to run the largest social network(Facebook)
- It is also easy enough to be a beginner's first server side language
- PHP runs on various platforms (Windows, Linux, Unix, Mac OS X, etc.)
- PHP is compatible with almost all servers used today (Apache, IIS, etc.)
- PHP supports a wide range of databases.
- PHP can generate dynamic page content and can send and receive cookies
- PHP can be used to control user-access and can encrypt data.

➢ HTML and CSS

- HTML gives content structure and meaning by defining that content. It allows users to produces Web pages that include text, graphics and pointer to other Web pages (Hyperlinks).
- It is a versatile language and can be used on any platform or desktop.
- CSS is used to create attractive layout by styling the appearance of the content.
- External style sheet are stored in CSS file.

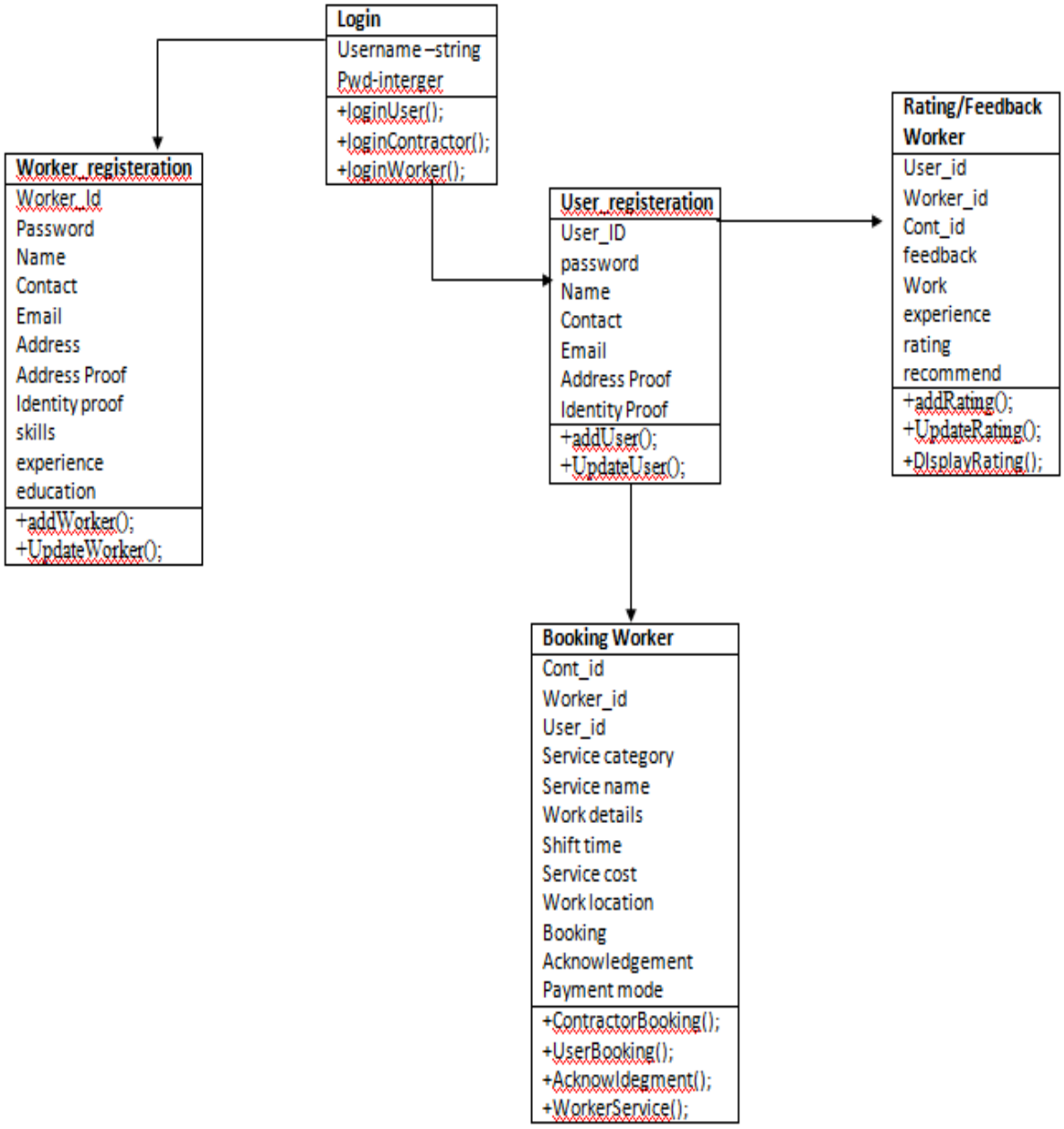
➢ BOOTSTRAP

- Bootstrap is a free front-end framework for faster and easier web development
- Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins
- Bootstrap also gives you the ability to easily create responsive designs.

➢ **MYSQL**

- MySQL is an open-source database, so you don't have to pay a single penny to use it.
- MySQL is a very powerful program that can handle a large set of functionality of the most expensive and powerful database packages.
- MySQL is customizable because it is an open-source database, and the open-source GPL license facilitates programmers to modify the SQL software according to their own specific environment.
- MySQL is quicker than other databases, so it can work well even with the large data set.
- MySQL supports many operating systems with many languages like PHP, PERL, C, C++, JAVA, etc.
- MySQL uses a standard form of the well-known SQL data language.
- MySQL is very friendly with PHP, the most popular language for web development.

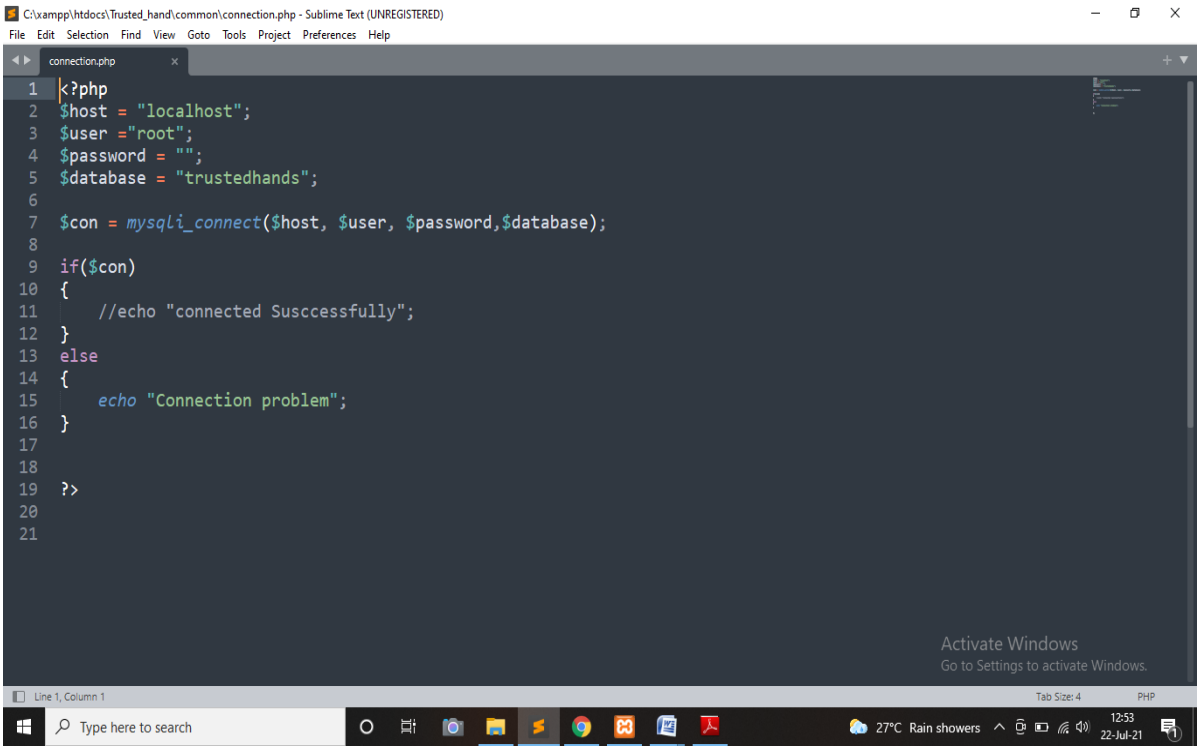
5.3 Table Relationship Diagram.



5.4 Database connectivity procedure.

- Create Database Connection File In PHP.

  You just have to include it by using PHP custom function ***include*** (include 'connection.php') on the top of your code and call its function and use it.



- Here is the explanation of the variable that we have used in our connection.php file:

- $host will be the host where your server is running it is usually localhost.
- $user will be the username i.e. **root** and $password will be the password which is the same that you used to access your PHPMyAdmin.
- $database will be the name of your database which we have created.

- Run it! Now open your browser and goto localhost/trusted-hand/index.php and you should see this screen:

```
Connection successfully
```

5.5 Code description.

SNO.	source file name	Description	LOC
1.	connection.php	This is the connection page for database connectivity	25
2.	top_header.php	This has all the meta and link of css used	28
3	header.php	This has the navigation bar with logo and menu	98
4	Index.php	Here user can view all the services , some worker details , workers with their top ratings and search for service by city and service name.	296
5.	About.php	User can view project details and how the portal works	159
6.	Contact.php	User can view the company details required for contacting	90
7.	How.php	User can view the procedure of how the person with no technical knowledge can access all the facility of portal.	177
8.	Footer.php	Footer has all the necessary links and scroll to the top option. Here user can access all the pages and model forms added are described with javascript used.	324
9.	Plumber.php	This page redirects the person to the category detail which he has choosen	118
10.	Worker.php	Here this page give successful payment message if done by debit card	14
11.	Workers.php	This page displays the list of specific worker according to their category chosen	139
12.	Worker_single.php	This page show the detail of single worker	180
13.	Login, register model forms in index.php	For user there is model pop up form in index page	

14.	User_profile worker_profile	once logged in has access to his profile where he can manage his details	90
15.	Add_user_detail.php Add_worker_detail.php	After registering if person need to provide more details.	90
16.	Edit_user_detail.php Edit_worker_detail.php	User can edit his pre-exiting details	120

ADMIN PANEL

SNO.	source file name	Description	LOC
1.	connection.php	This is the connection page for database connectivity	25
2.	top_header.php	This has all the meta and link of css used	28
3	header.php	This has the navigation bar with logo and menu	98
4	Index.php	Admin has view of no. of booking, category, worker, user and booking detail table	95
5.	Login.php	For adminlogin	44
6.	Signup.php	For admin registration	96
7.	Check_login.php	Checks the login details and has session in it	25
8.	User.php Worker.php Category.php	This show all the database of user_tbl and has add user button and edit and delete option	74
9.	Add_user.php Add_worker.php Add_category.php	This provides form for adding new user to database	118

10.	**Insert_user_data.php Insert_ worker _data.php Insert_ category _data.php**	**This has the query section for inserting user data**	**23**
11.	**Edit_user_data.php Edit_ worker _data.php Edit_ category _data.php**	**Has form which show the data choosen to be edited and allows modification**	**124**
12.	**Update_user_data.php Update_ worker _data.php Update_ category _data.php**	**After editing this page has the query for updation of user data in database**	**22**
13.	**Delete_user_data.php Delete_ worker _data.php Delete_ category _data.php**	**Has the query for deletion of user data from database**	**10**
14.	**Category_detail.php**	**This show all the category of service and allows modification and deletion**	**60**

5.6 Input/output interfaces (Screen shots).

- **DATABASE (screenshots) - Database name: trusted_hands**
  - **User_tbl**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	user_id	int(20)			No	None		AUTO_INCREMENT
2	user_name	varchar(30)	utf8mb4_general_ci		No	None		
3	user_dob	varchar(20)	utf8mb4_general_ci		No	None		
4	user_gender	varchar(20)	utf8mb4_general_ci		No	None		
5	user_phonenumber	varchar(20)	utf8mb4_general_ci		No	None		
6	user_email	varchar(30)	utf8mb4_general_ci		No	None		
7	user_address	varchar(300)	utf8mb4_general_ci		No	None		
8	user_city	varchar(60)	utf8mb4_general_ci		No	None		
9	user_state	varchar(40)	utf8mb4_general_ci		No	None		
10	user_pincode	varchar(30)	utf8mb4_general_ci		No	None		
11	user_image	varchar(30)	utf8mb4_general_ci		No	None		
12	user_identityproof	varchar(40)	utf8mb4_general_ci		No	None		
13	user_addressproof	varchar(40)	utf8mb4_general_ci		No	None		

➢ Worker_tbl

☐	1	worker_id 🔑	int(20)		No	*None*		AUTO_INCREMENT
☐	2	worker_category	varchar(40)	utf8mb4_general_ci	No	*None*		
☐	3	worker_name	varchar(40)	utf8mb4_general_ci	No	*None*		
☐	4	worker_dob	date		No	*None*		
☐	5	worker_gender	varchar(20)	utf8mb4_general_ci	No	*None*		
☐	6	worker_phonenumber	varchar(30)	utf8mb4_general_ci	No	*None*		
☐	7	worker_email	varchar(30)	utf8mb4_general_ci	No	*None*		
☐	8	worker_address	varchar(500)	utf8mb4_general_ci	No	*None*		
☐	9	worker_city	varchar(50)	utf8mb4_general_ci	No	*None*		
☐	10	worker_state	varchar(50)	utf8mb4_general_ci	No	*None*		
☐	11	worker_pincode	varchar(30)	utf8mb4_general_ci	No	*None*		
☐	12	skills	varchar(200)	utf8mb4_general_ci	No	*None*		
☐	13	education	varchar(200)	utf8mb4_general_ci	No	*None*		
☐	14	experience	varchar(500)	utf8mb4_general_ci	No	*None*		
☐	15	worker_charge	varchar(200)	utf8mb4_general_ci	No	*None*		
☐	16	worker_photo	varchar(40)	utf8mb4_general_ci	No	*None*		
☐	17	worker_identityproof	varchar(40)	utf8mb4_general_ci	No	*None*		
☐	18	worker_addressproof	varchar(40)	utf8mb4_general_ci	No	*None*		

➢ Category_tbl

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
☐	1	category_id 🔑	int(20)			No	*None*		AUTO_INCREMENT
☐	2	category_name	varchar(50)	utf8mb4_general_ci		No	*None*		
☐	3	category_desc	varchar(300)	utf8mb4_general_ci		No	*None*		
☐	4	category_img	varchar(30)	utf8mb4_general_ci		No	*None*		
☐	5	category_order	varchar(20)	utf8mb4_general_ci		No	*None*		
☐	6	category_status	varchar(20)	utf8mb4_general_ci		No	*None*		

- **Admin_tbl**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	admin_id	int(30)			No	None		AUTO_INCREMENT
2	admin_name	varchar(100)	utf8mb4_general_ci		No	None		
3	admin_username	varchar(100)	utf8mb4_general_ci		No	None		
4	admin_password	varchar(100)	utf8mb4_general_ci		No	None		

- **City_tbl**

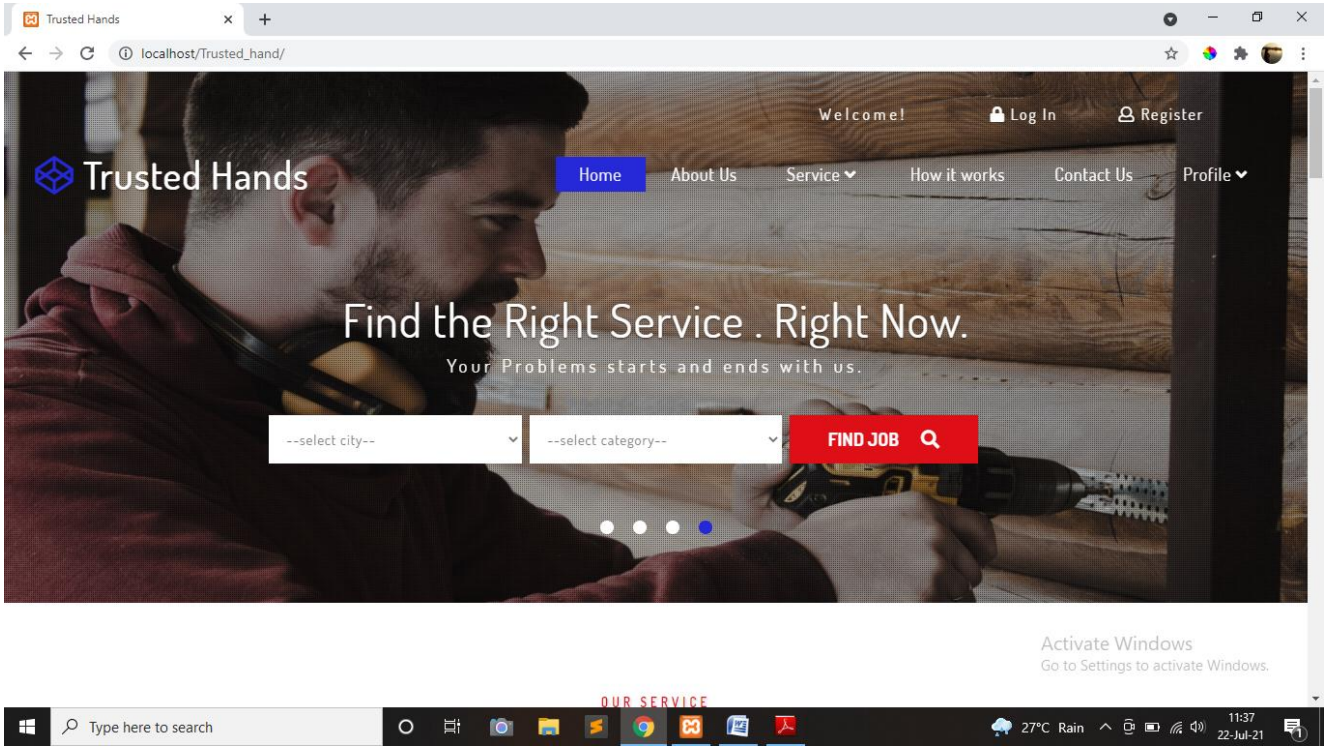
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	city_id	int(30)			No	None		AUTO_INCREMENT
2	city_name	varchar(50)	utf8mb4_general_ci		No	None		
3	city_status	varchar(20)	utf8mb4_general_ci		No	None		

- **State_tbl**

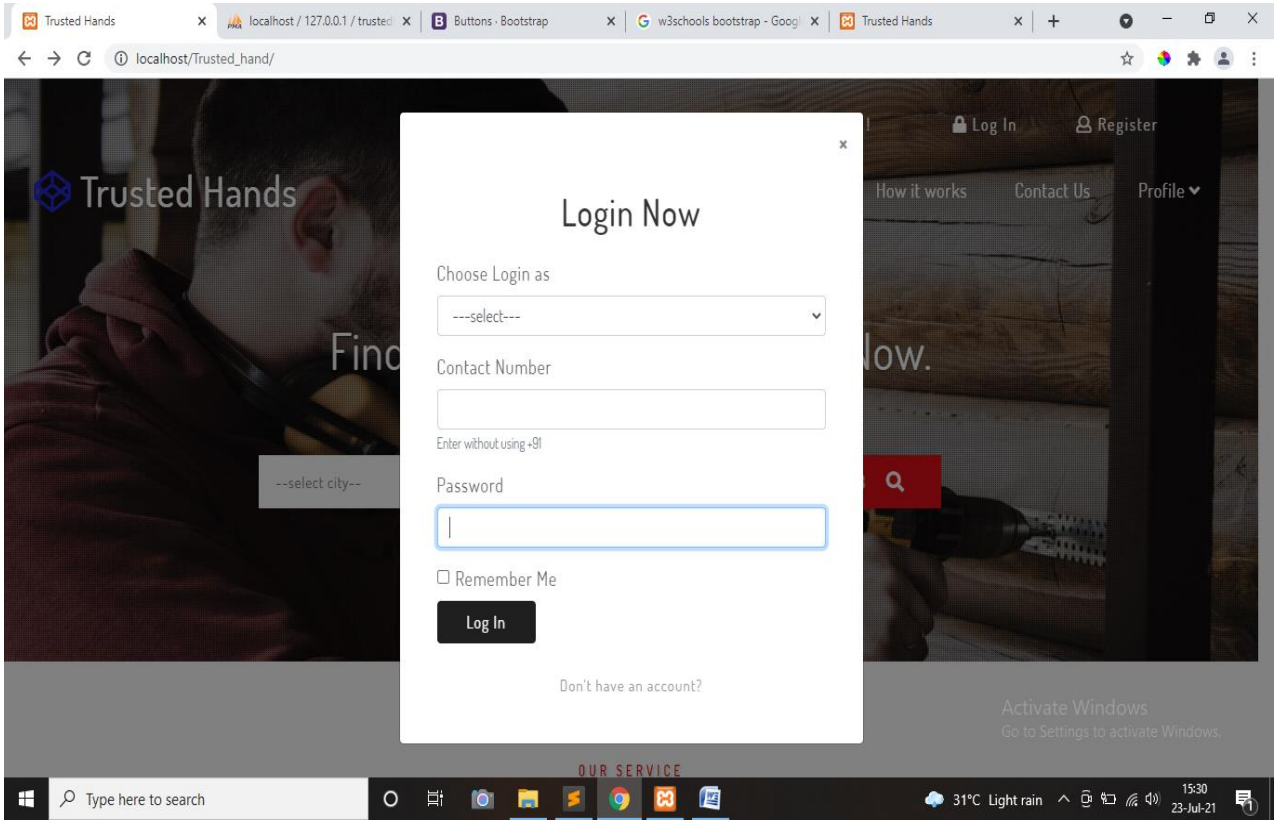
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	state_id	int(20)			No	None		AUTO_INCREMENT
2	state_name	varchar(50)	utf8mb4_general_ci		No	None		
3	state_status	varchar(20)	utf8mb4_general_ci		No	None		

Front_end (Screenshots)

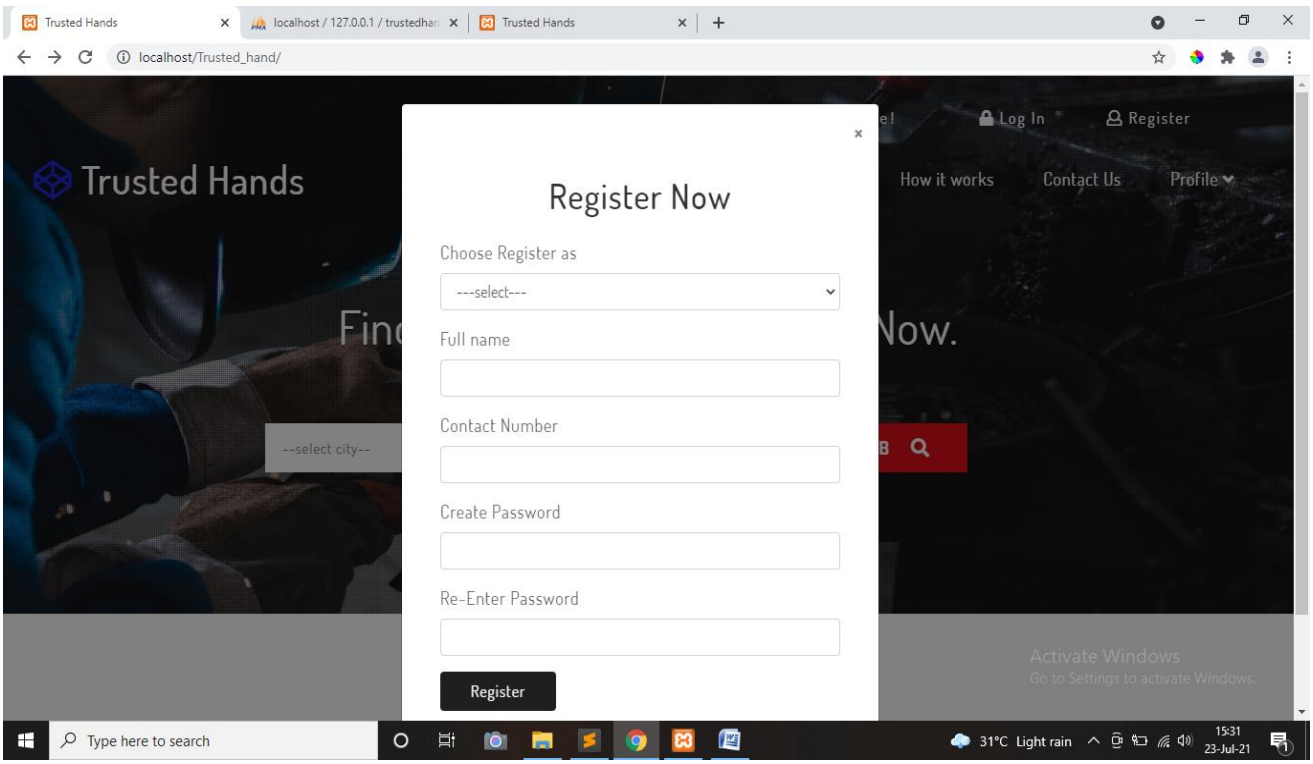
- **Index.php**



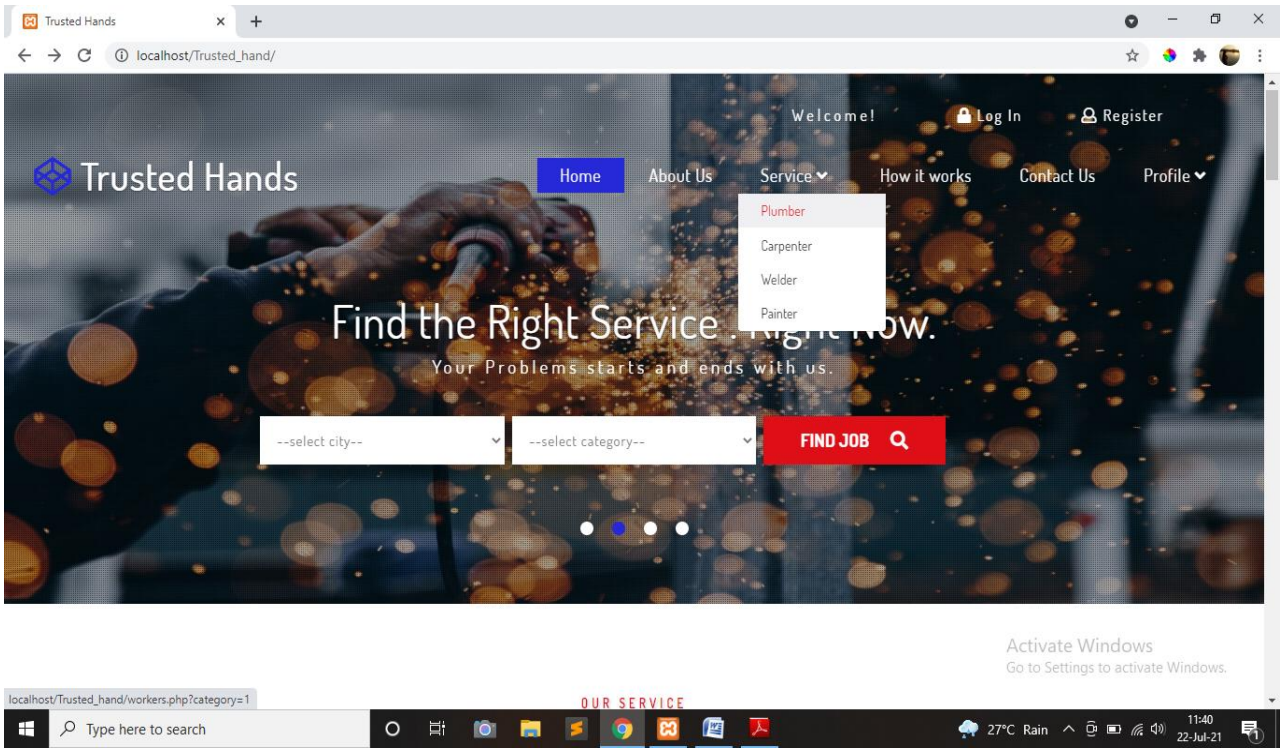
- **Login.php**


Trusted Hands
localhost/Trusted_hand/
Log In
Register
How it works
Contact Us
Profile
Login Now
Choose Login as
---select---
Contact Number
Enter without using +91
Password
Remember Me
Log In
Don't have an account?
--select city--
OUR SERVICE
Activate Windows
Type here to search
31°C Light rain
15:30
23-Jul-21

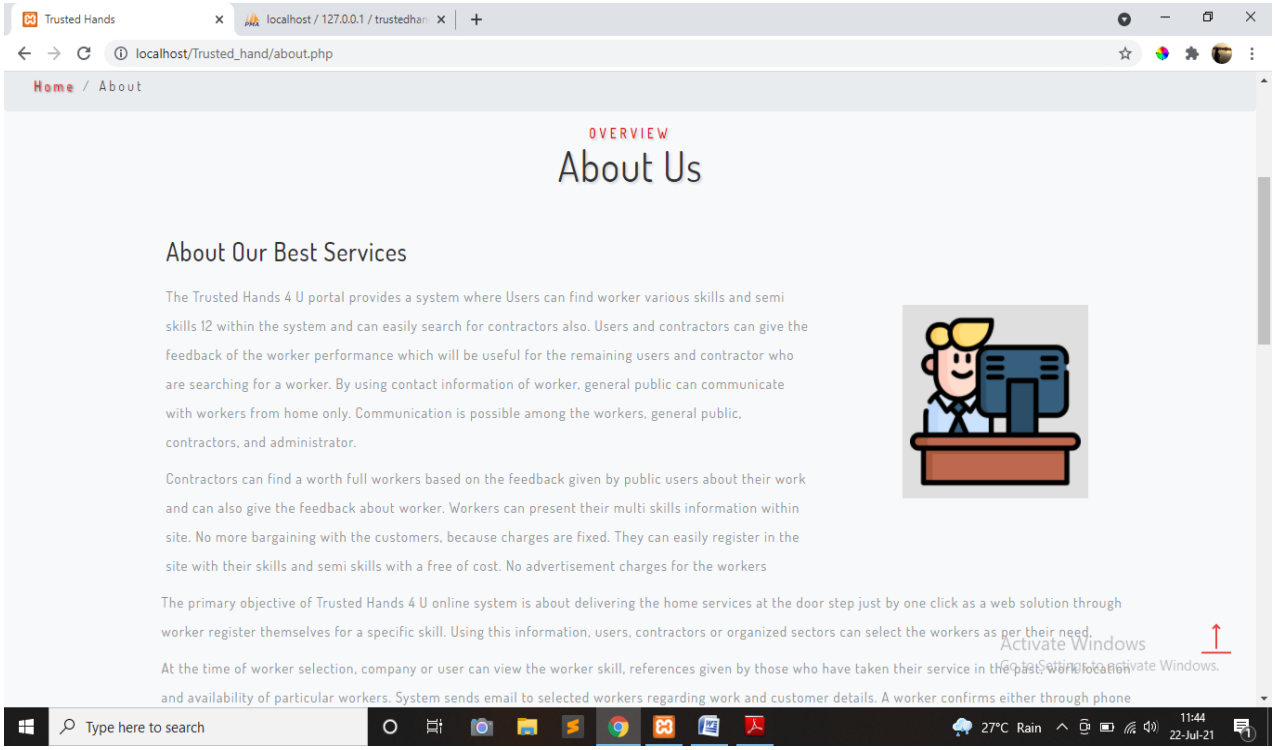
➢ Signup.php


Trusted Hands
localhost/Trusted_hand/
Log In
Register
How it works
Contact Us
Profile
Register Now
Choose Register as
---select---
Full name
Contact Number
Create Password
Re-Enter Password
Register
--select city--
Activate Windows
Type here to search
31°C Light rain
15:31
23-Jul-21

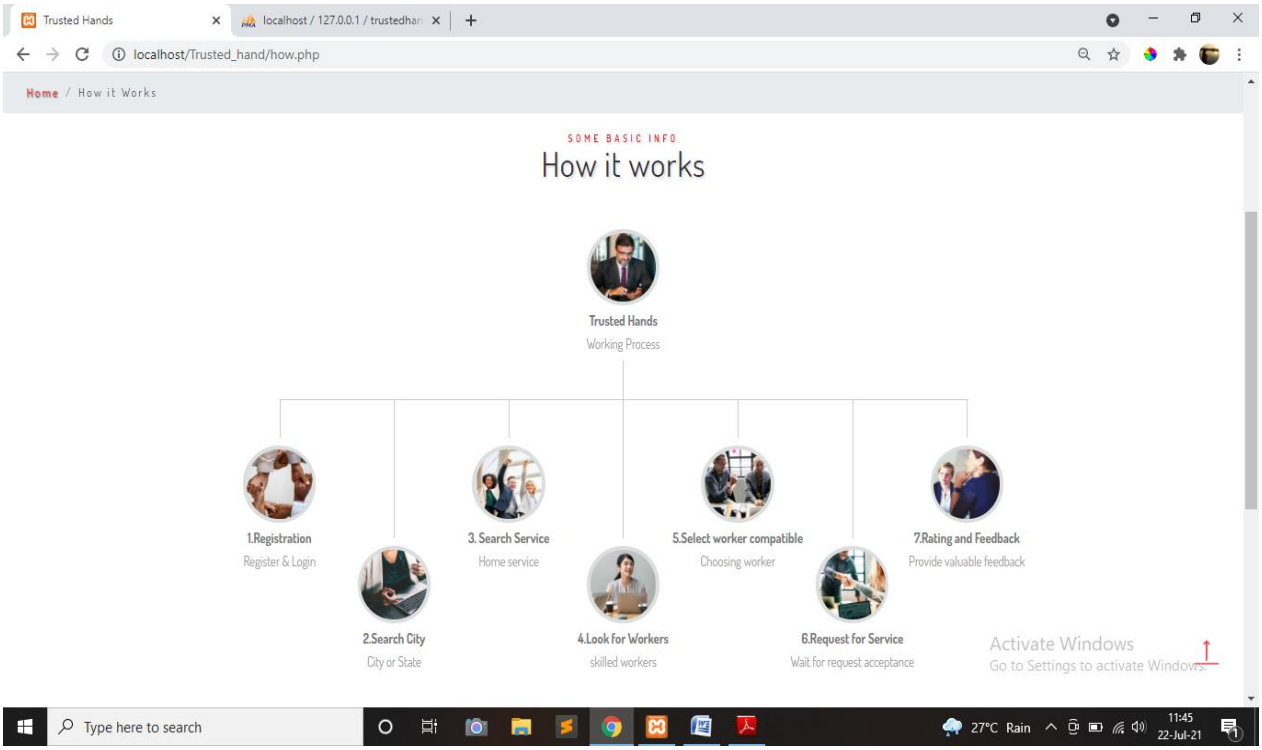
➢ Category Pages (for eg. Plumber category is chosen to see details)



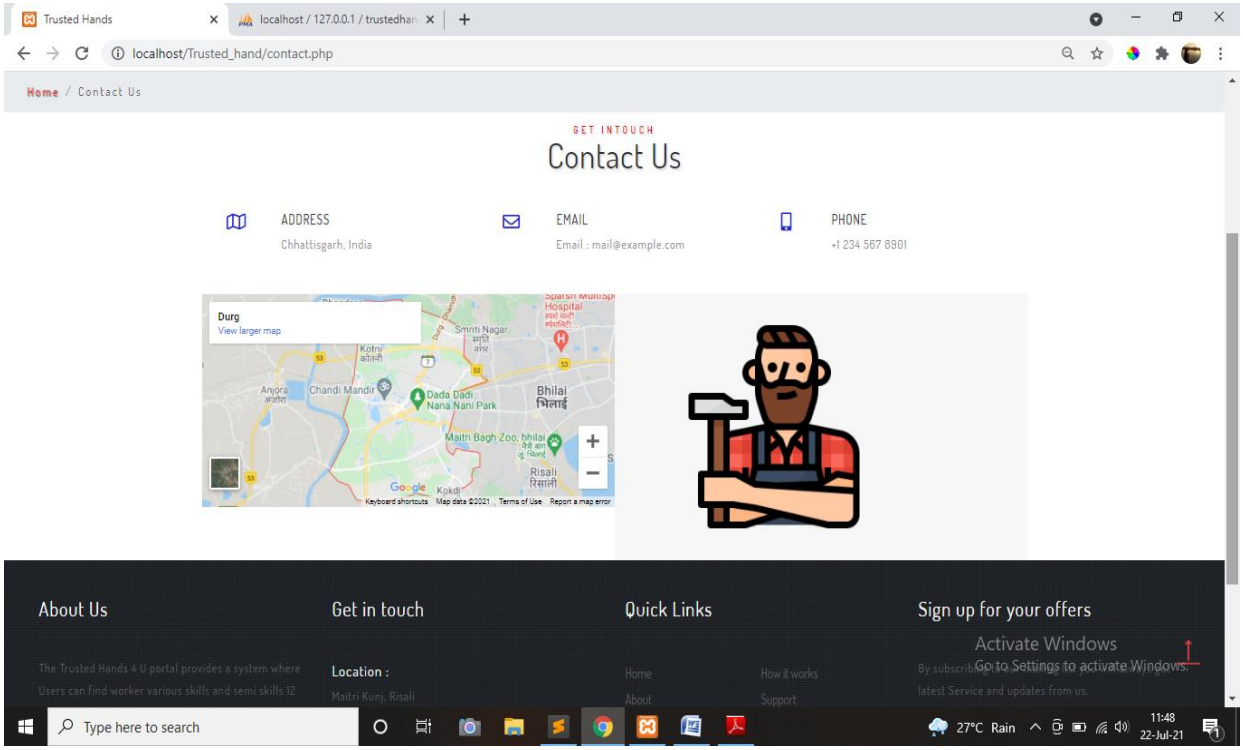
➢ Aboutus.php



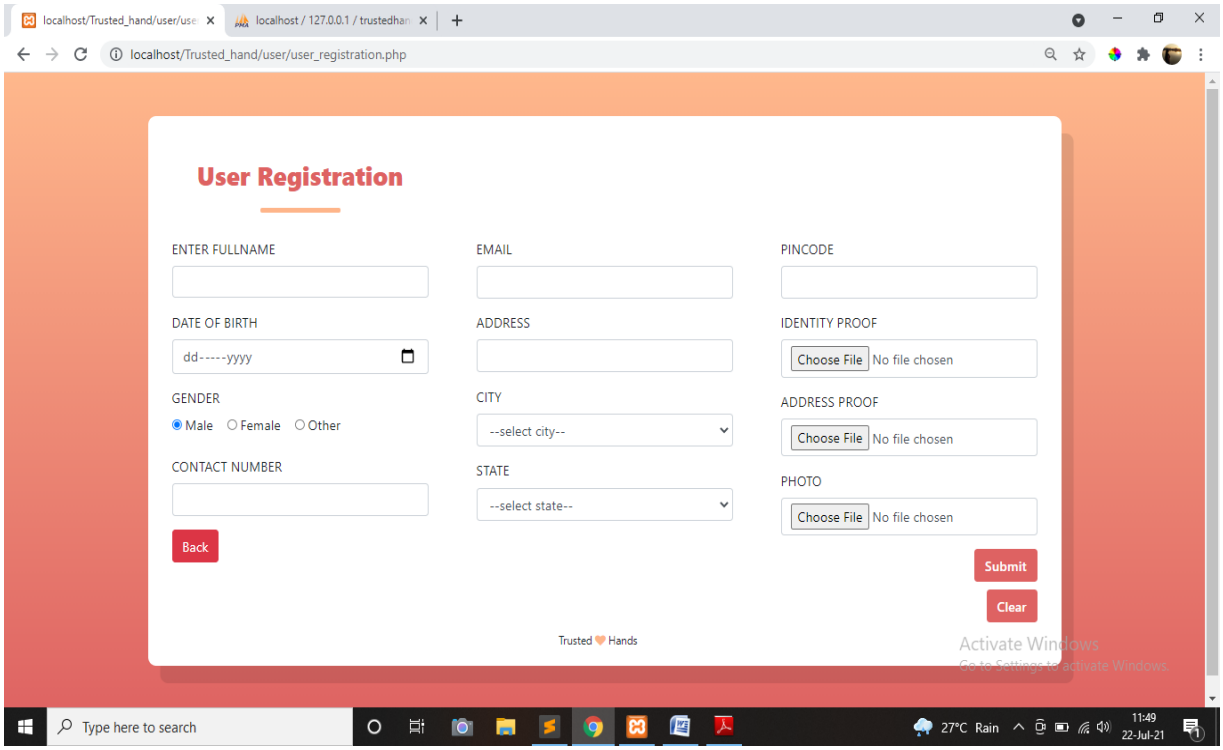
➢ How.php



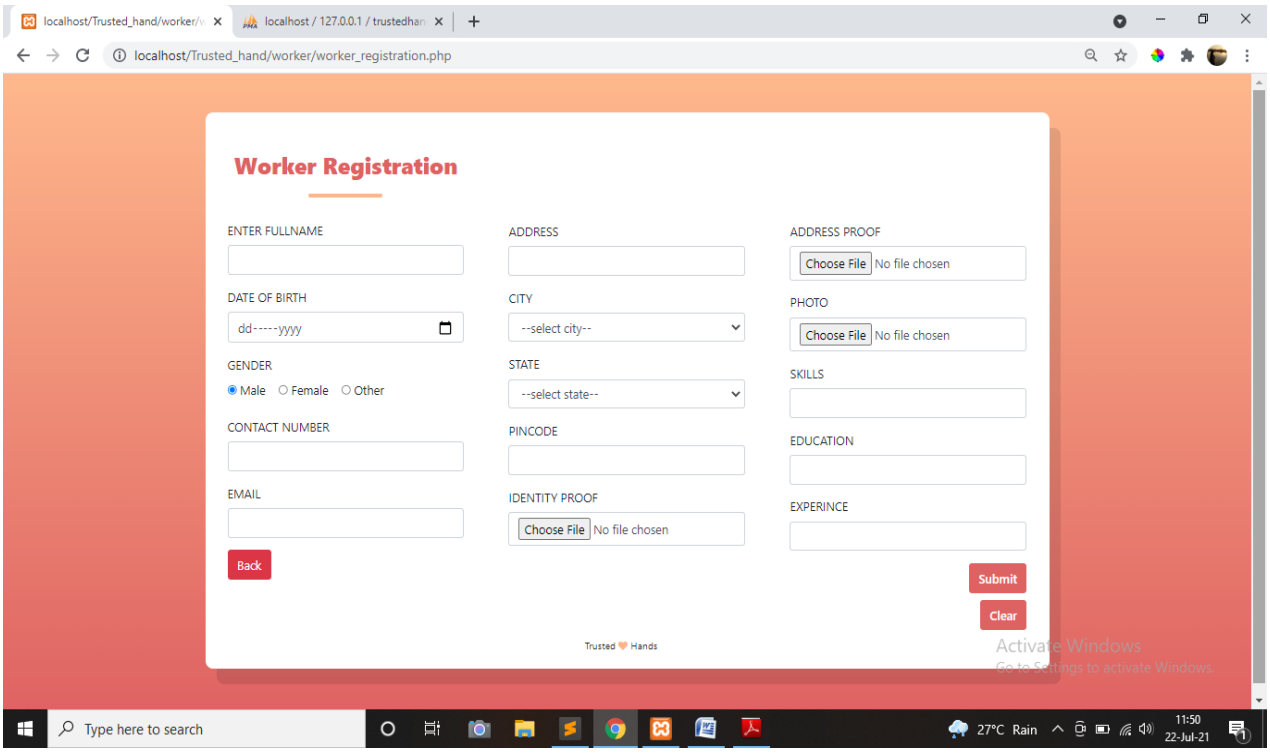
- **Contactus.php**



- **User_registration.php**

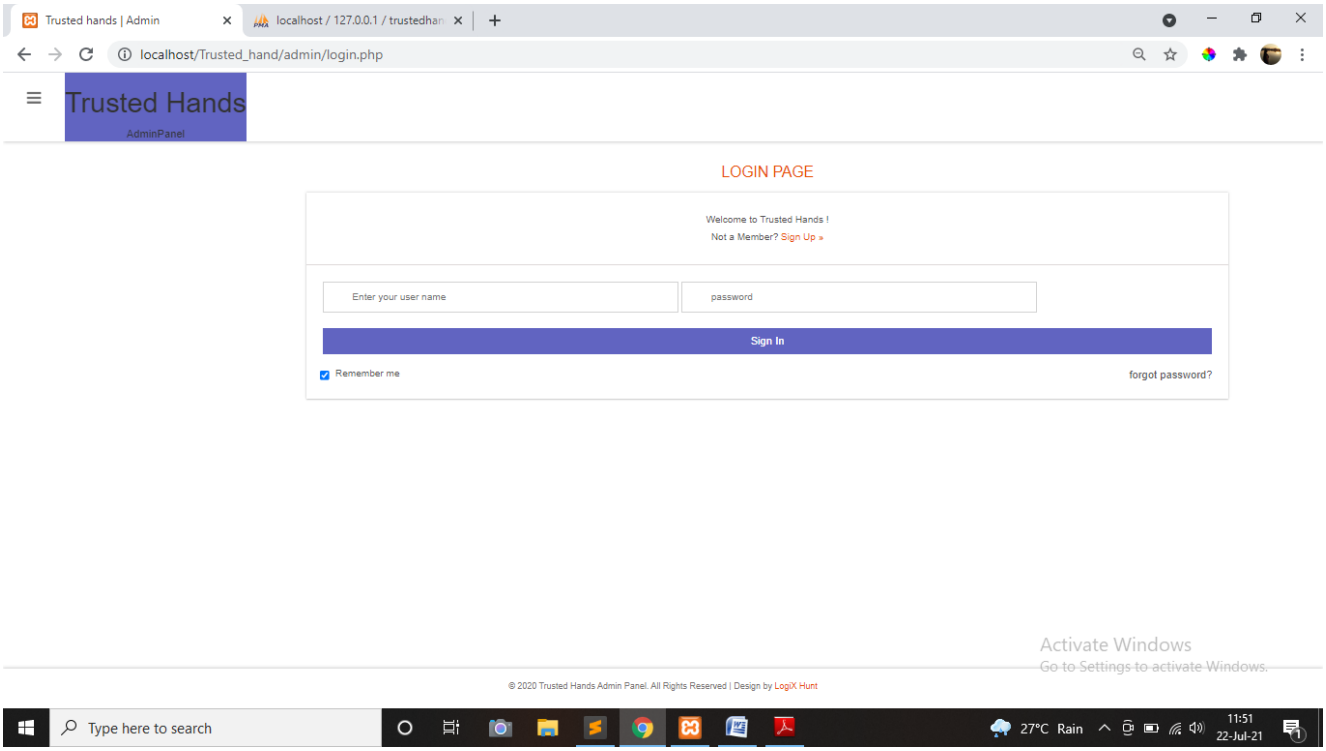


- **Worker_registration.php**

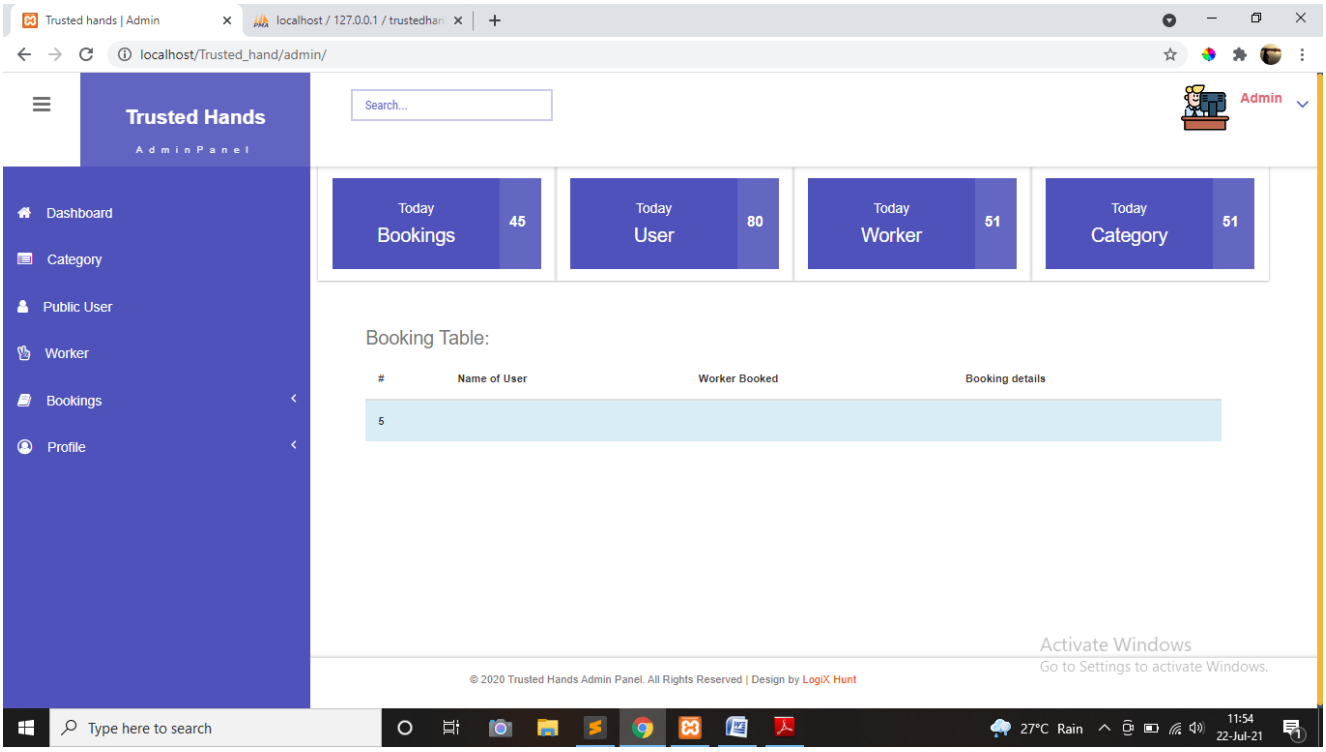


FOR ADMIN PANEL

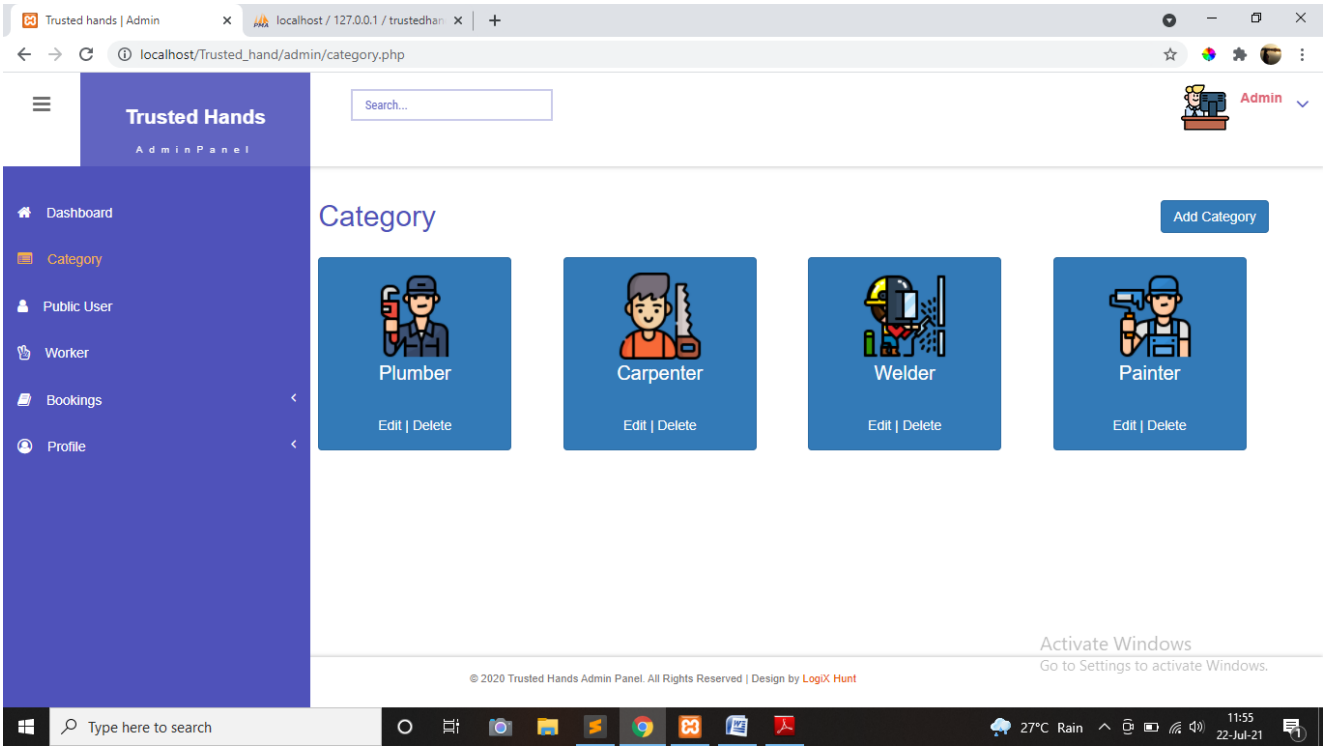
- **Admin login**



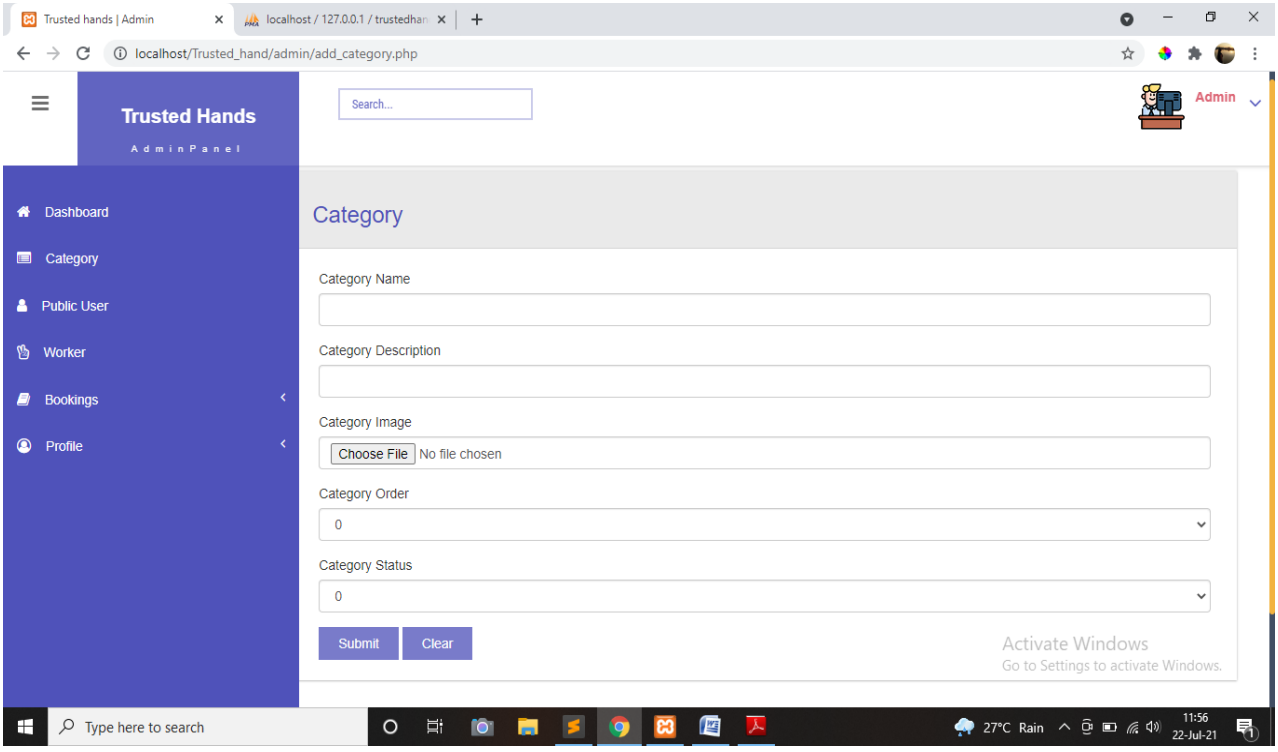
- **Admin index page**



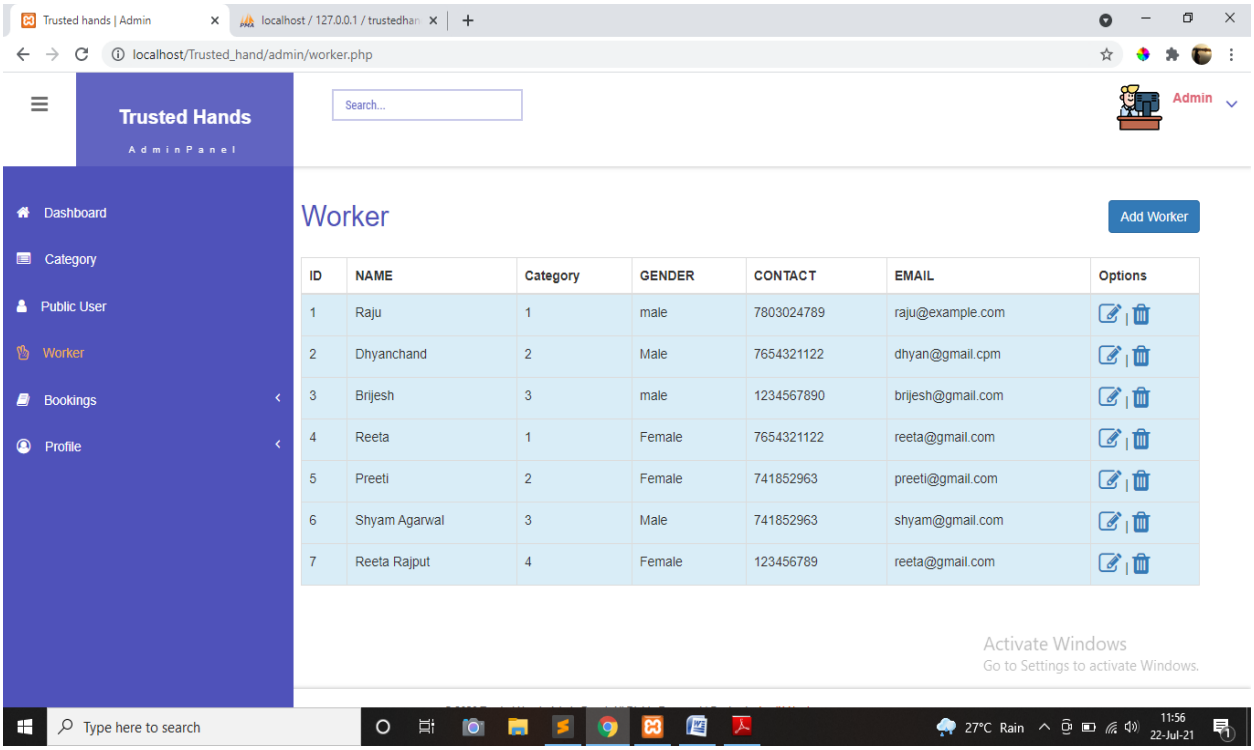
- **Category page**



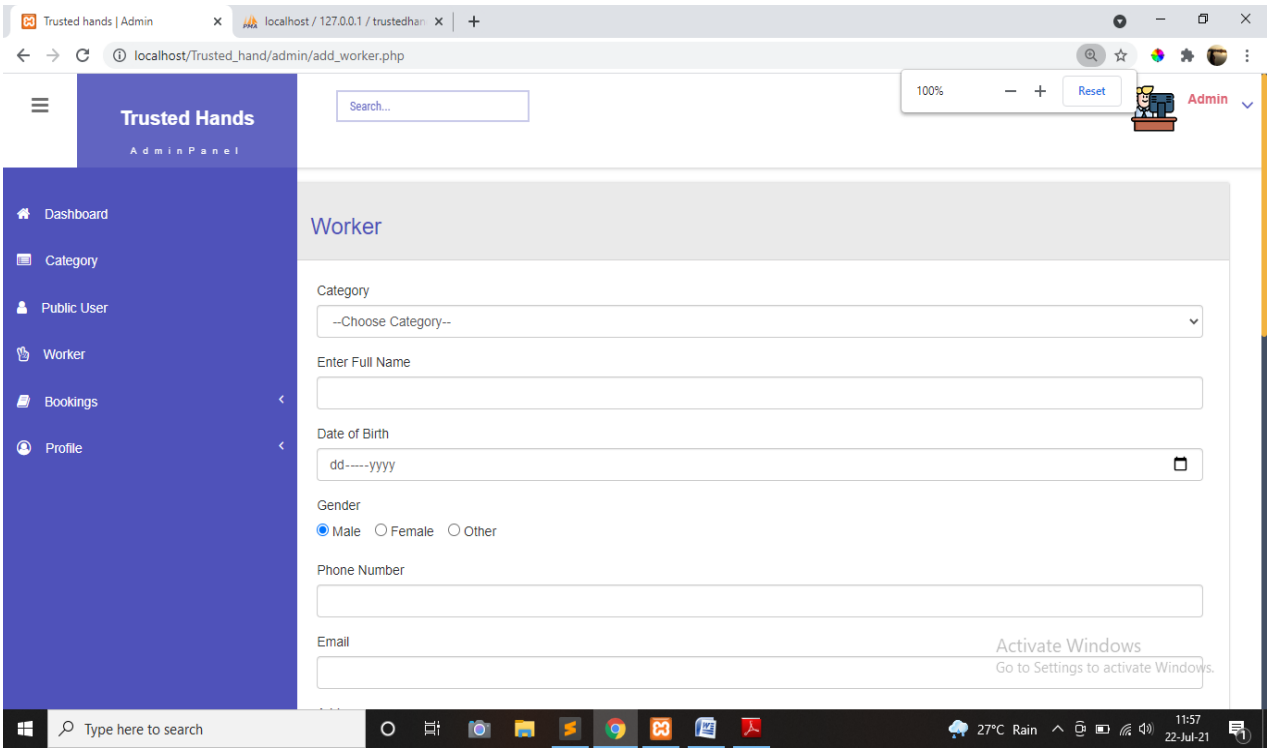
- **Add category page**



- **User and worker pages**



- **Add user andworker form**



6. SOFTWARE TESTING (Test cases)

6.1 Software testing tools used (if any).

Not Used

6.2 Black-box testing.

This method enables the software engineer to device set of input techniques that fully exercise all functional requirements for a program. Black Box tests the input, the output and the external data. It checks whether the input data is correct and whether we are getting the desired output.

6.2.1 Unit (Program) testing.

Unit testing tests the minimal software component, or module. Each unit (basic component) of the software is tested to verify that the detailed design for the unit has been correctly implemented. In an object-oriented environment, this is usually at the class level, and the minimal unit tests include the constructors and destructors.

6.2.2 Sub-system testing.

Any testable collection of objects, components, and modules. It is executable and testable as a whole. It implements a cohesive set of responsibilities. It does not provide all of the functionality of the application under test.

6.2.3 System testing.

It is executing programs to check logical changes made in it with intention of finding errors. A system is tested for online response, volume of transaction, recovery from failure etc. System testing is done to ensure that the system satisfies all the user requirements. System testing is series of different tests whose primary purpose is to fully exercise the computer based system. Although each test has a different purpose, all the work should verify that all system elements have been properly integrated and perform allocated functions.

There are essentially three kinds of system testing:

I. **Alpha Testing:** Alpha testing refers to the system testing carried out by the test team within the development organization.

II. **Beta Testing:** Beta testing is the system testing performed by a select group of friendly customers.

III. **Acceptance Testing:** Acceptance testing is the system testing performed by the customers to determine whether to accept or reject the delivery of system.

Modules	**Input**	**Process**	**Expected Output**	**Actual Output**
Login	user_id, password	Check with database and login	If all the entered details are correct then jump to index page	Jumps to index page and login portal after successful login
Registration	User_name, contact_no, password	Register new users and save values into database	If all the details entered are correct then it will save new user data into database	Saves and inserts new user details into database
View Services	category_id, category_name	Verifies category_id, category_name from database and Generates Category detail page	Generates category page	Generates category page

View worker details	worker_id	Verifies worker_id from database and Generates detail of worker	Generates worker details	Generates worker details

6.3 White-box testing.

White Box Testing is defined as the testing of a software solution's internal structure, design, and coding. In this type of testing, the code is visible to the tester. It focuses primarily on verifying the flow of inputs and outputs through the application, improving design and usability, strengthening security. White box testing is also known as Clear Box testing, Open Box testing, Structural testing, Transparent Box testing, Code-Based testing, and Glass Box testing. It is usually performed by developers.

White box testing involves the testing of the software code for the following:

- Internal security holes
- Broken or poorly structured paths in the coding processes
- The flow of specific inputs through the code
- Expected output
- The functionality of conditional loops
- Testing of each statement, object, and function on an individual basis

The testing can be done at system, integration and unit levels of software development. One of the basic goals of white box testing is to verify a working flow for an application.

6.3.1 Unit (Program testing).

It is often the first type of testing done on an application. Unit testing is performed on each unit or block of code as it is developed. Unit Testing is essentially done by the programmer. As a software developer, you develop a few lines of code, a single function or an object and test it to make sure it works before continuing Unit Testing helps identify a majority of bugs, early in the software development lifecycle. Bugs identified in this stage are cheaper and easy to fix.

7. Limitations & Future Enhancement

Limitations:-

- Online payment gateway can be included.
- User sending request for worker process can be made more efficient.

Future Enhancement:-

We have tried to ensure that majority of the functionalities to be managed by admin , user and worker but some other functionalities like payment , Request for service , acceptances of request from user is still managed which can be added in future.

8. Conclusions.

To reduce burden in finding in-house solutions for the services, the proposed system provides several services by providing service specialists at your doorstep in one click. A systematic environment to system clients offers ease in accessing our services in a more comfortable way. With well qualified and background remonstrated professionals we make all your home cleaning, plumbing, furniture maintenance, electrical works, appliance repair, house painting, and many other services to be done in a click anytime from anywhere as easy as available.

The online House services application provides some of the home services which are most frequently used. This system accommodates the changing needs of the end user. The overall system can be designed so that its capacity can be increased in response to the further requirements for which the application provides an appropriate service overseas. Further this application can be prolonged by merely adding up the required services and additional payment systems. For example, the current system provides the following services such as home painting, home cleaning, plumber repair and service further the system can be extended as per the requirements of the user. The system can have prolonged by adding the services such as mobile and computer repair, laundry services, catering services and many more. The discussion payment methods our system has, for example currently system has Offline payment by users further it can be extended by adding the payment services for visa users also.

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Comments of Guide / Supervisor : (Satisfactory / Not Satisfactory): …….

Name and Signature of Candidate **Signature of Guide / Supervisor with Seal**

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Place:

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