PROJECT REPORT

(MAJOR PROJECT)

ON

XperTiSe (e-Home Repair & Maintenance Services)

Submitted in Partial Fulfilment of Requirement of
Bachelor of Technology in
Computer Science & Engineering
IN

CALCUTTA INSTITUTE OF TECHNOLOGY

Submitted By

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B. Tech CSE- 4th Year- 2024(8th SEMESTER)

Subject- Project III(PROJ-CS881)

UNDER THE GUIDANCE OF

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BACHELOR OF TECHNOLOGY IN
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CERTIFICATE OF APPROVAL

THIS IS TO CERTIFY THAT MS. RUMPA CHAKRABORTY, MS. SATWIKA DUTTA, MR. SK. BAKIBILLA & MR. AYAN KUMAR DHARA HAS COMPLETED HIS B. TECH (BACHELOR OF TECHNOLOGY) IN COMPUTER SCIENCE & ENGINEERING, FINAL YEAR PROJECT ENTITED "XperTiSe"(e-Home Repair Services). They HAVE DONE THE PROJECT WORK UNDER THE SUPERVISION OF, CSE DEPARTMENT OF CALCUTTA INSTITUTE OF TECHNOLOGY, ULUBERIA, WE ARE SATISFIED WITH THEIR WORK, WHICH IS BEING PRESENTED FOR THE FULFILLMENT FOR THE DEGREE OF BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE & ENGINEERING, MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, KOLKATA-700064.

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Prof. (Dr.) Himadri Sekhar Mandal   **Prof. Sulekha Kundu**   **Prof. Subhendu Sekhar Patra**
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<u>ACKNOWLEDGEMENT</u>

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<div align="right">Thank you with best regard.</div>

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1. Abstract

In the present time, people can't imagine or function their life without technology. Surrounding with various devices, appliances or tools are helping people to live their life easily and effortlessly. With this comes the concept of hiring a home repair and maintenance technician easily to keep our life working smoothly without any worry.

This project is aimed at developing a web-based application for the Online Home Repair and Maintenance Services. The system is a web-based application that can be accessed throughout the organization with proper login system provided. The expert technicians can be hired effortlessly.

The online technician hiring website involves studying of all the required repairing services, identifying the target audiences, devising the online hiring concept, authenticating the technician's details and their availability before handing out their details to the clients.

The e-home repair and maintenance website: "XperTiSe" helps in hiring of technician of a particular household repairing service with very less time and efforts by connecting the user to the service provider directly by web application and can book the respective technician. The system maintains a record of rating on each technician over their every services. It enables users to hire these technicians easily and also express their satisfaction or dissatisfaction off to our service in the website.

2. Objective

The main goal e-Home Repair and Maintenance Service:

Minimizing the loss of productive time and restore the working of faulty equipment.
Meet the needs of every house member. Improve the efficiency and effectiveness in hiring repair and maintenance technician. Improve user-accessibility and loss of productive time.

Objective of the system:

- Easy access to repair and maintenance services.
- Saving time and effort.
- Raise the level of service provided through customer evaluation.
- Clarity and knowledge of the prices offered on the services.
- Usability and easy access.
- Better deals and convenience.
- Knowledge of home service providers in the city.

3. <u>Introduction</u>

Electronic Commerce is process of doing business through computer networks, person sitting on his chair in front of a computer can access all the facilities of the Internet to buy or sell the products or services. Unlike traditional commerce that is carried out physically with effort of a person to go & get products, ecommerce has made it easier for human to reduce physical work and to save time.

e-Home repair and maintenance service is an alternative to a traditional hiring of home maintenance technician. Home Maintenance Service is a service that provide multiple kind of services, can be requested from customer to hire or book the technician taking less than a minute, to receive information from the coordinator about your appointment in recognition of his location.
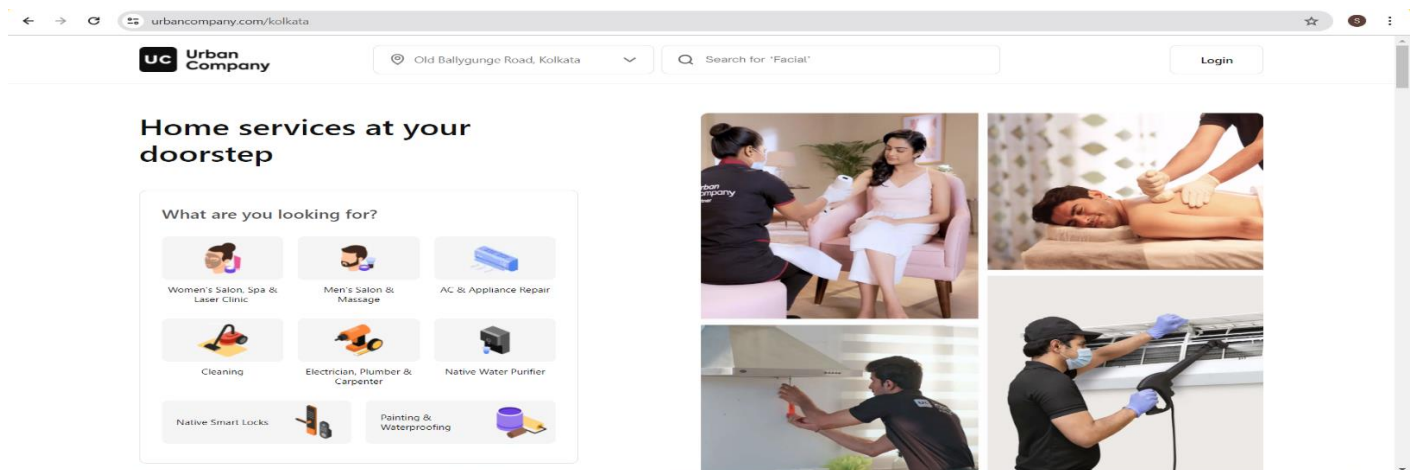
A website that makes it easy for you to get a home maintenance technician easily, by connecting the user to the service provider required directly and in a simple way.

Website Services Including:

✓ Electrical

✓ Plumbing

✓ Electronics

✓ Carpentry

✓ Gas Stove Repair

✓ Painting

4. Literature Review

❖ Urban Company:

Advantage:

- Convenience- The website offers a convenient platform for both service providers and customers to connect with each other without the need for physical presence or intermediaries.
- Accessibility- Customers can access the website from anywhere with an internet connection, making it easy to book services even when they are on the go.
- Variety of Services- Urban Company offers a wide range of services on its website, including home cleaning, beauty services, appliance repair, and more, providing customers with a one-stop solution for their household needs.
- Transparency- The website provides transparent information about service providers, including their ratings, reviews, and pricing, helping customers make informed decisions.
- Booking Flexibility- Customers can easily schedule appointments for services through the website according to their convenience, without having to make phone calls or wait for callbacks.
- Payment Options- The website supports various payment options, including credit/debit cards, net banking, and digital wallets, offering customers flexibility in payment methods.

Disadvantage:

- Limited-Service Availability- Urban Company may not offer services in all geographic locations, limiting access for potential customers who reside outside their service areas.
- Pricing- Some users may find the pricing for services offered through Urban Company to be higher compared to alternative options or traditional service providers.
- Limited Customization- The website may offer a standardized experience for booking services, which may not accommodate all preferences or specific needs of customers.

- Lack of Direct Communication- Some users may prefer direct communication with service providers, which may be limited through the website interface, leading to potential misunderstandings or miscommunications.

❖ Aflix Home:
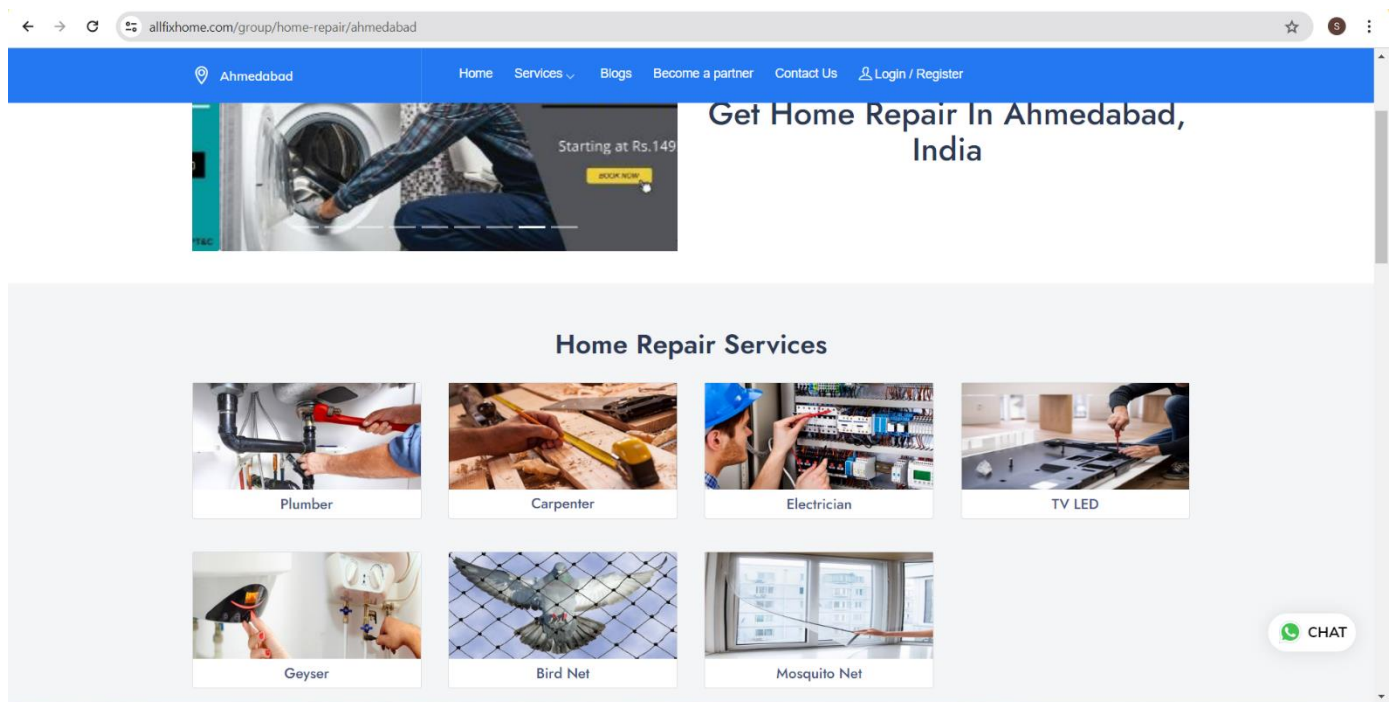
Advantage:

- Convenience: Offers a wide range of home services including beauty treatments, home repairs, and cleaning, all performed at your doorstep.
- Diverse Services: Covers various cities in India and provides services like salon treatments for both men and women, home appliance repairs, and event management.
- Ease of Booking: Simple and user-friendly booking process through their website.
- Expertise: Claims to have a large number of verified experts to provide services.

Disadvantage:

- Quality Control: As with many service aggregators, the quality of service can vary depending on the individual service provider.
- Availability: Service availability might be limited to certain cities, which could be inconvenient for those living in non-covered areas.
- Pricing: Prices might be higher compared to traditional local service providers.

5. Feasibility Study

The feasibility study is an analysis of the ability to complete a project successfully. It takes into account legal, economic, technological, scheduling and other factors. The feasibility study revealed the importance of the application of such a system, for the following reasons:

- ✓ E-Home repair and maintenance is centred on houseowners and renters.
- ✓ This system is a convenient and efficient way to access home repair and maintenance services.
- ✓ Online home repair and maintenance service is time saving.
- ✓ This system is intuitive, easy to use and provides necessary needs.
- ✓ Online home repair and maintenance service is problem solving system in our present busy lifestyle.
- ✓ The project has positive response and can be expanded way more.
- ✓ This study is based on the development of interactions houseowners and local technicians or maintenance service.

Steps in feasibility analysis:

- ❖ Form a project team and appoint a project leader.
- ❖ Prepare system flowcharts.
- ❖ Enumerate potential proposed system.
- ❖ Define and identify characteristics of proposed system.
- ❖ Determine and evaluate performance and cost effective of each proposed system.
- ❖ Weight system performance and cost data.
- ❖ Select the best-proposed system.
- ❖ Prepare and report final project directive to management.

5.1. Technical feasibility:

A study of resource availability that may affect the ability to achieve an acceptable system. This evaluation determines whether the technology needed for the proposed system is available or not.

- ❖ Can the work for the project be done with current equipment existing software technology & available personal?
- ❖ Can the system be upgraded if developed?
- ❖ If new technology is needed then what can be developed?
- ❖ This is concerned with specifying equipment and software that will successfully satisfy the user requirement.

An important issue for the development of a project is the selection of suitable front-end and back-end. When we decided to develop the project, we went through an extensive study to determine the most suitable platform that suits the needs of the organization as well as helps in development of the project. The aspects of our study included the following factors.

Front-end selection:

- ✓ It must have a graphical user interface that assists employees that are not from IT background.
- ✓ Scalability and extensibility.
- ✓ Flexibility.
- ✓ Robustness.
- ✓ According to the organization requirement and the culture.
- ✓ Must provide excellent reporting features with good printing support.
- ✓ Platform independent.
- ✓ Easy to debug and maintain.
- ✓ Event driven programming facility.

According to the above stated features we selected HTML, CSS, Bootstrap, JS and Swiper JS as the front-end and XAMP for web server for developing our project Online e-Home Repair & Maintenance Service.

Back-end Selection:

- ✓ Multiple user support.
- ✓ Efficient data handling.
- ✓ Provide inherent features for security.
- ✓ Efficient data retrieval and maintenance.
- ✓ Stored procedures.
- ✓ Popularity.
- ✓ Operating System compatible.
- ✓ Easy to install.
- ✓ Various drivers must be available.
- ✓ Easy to implant with the Front-end.

According to above stated features we selected PHP, MySQL as the backend. The technical feasibility is frequently the most difficult area encountered at this stage. It essential that the process of analysis and definition be conducted in parallel with an assessment to technical feasibility. It centres on the existing computer system (hardware, software, etc.) and to what extent it can support the proposed system.

5.2. Operational Feasibility:

It is mainly related to human organizations and political aspects. The points to be considered are:

- ✓ What changes will be brought with the system?
- ✓ What organization structures are disturbed?
- ✓ What new skills will be required? Do the existing staff members have these skills? If not, can they be trained in due course of time?
- ✓ The system is operationally feasible as it very easy for the End users to operate it. It only needs basic information about Windows platform.

6. Software Requirement Specification

Software Requirement Specification (SRS) document usually contains a software vendor's understanding of a customer's software requirements. This document ensures that the software vendor and the customer are in agreement as to the features required in the software system being built. SRS is created after the initial requirement elicitation phase in which Software vendor interacts with the customer to understand the software needs. Usually, SRS documentation is prepared by a business analyst who has some technical background.

Software SRS establishes the basic for agreement between the client and the supplier on what the software product will do: an SRS provides a reference for validation of the final product; high-quality SRS is a prerequisite to high-quality software and high-quality SRS reduces the development cost.

Characteristics of software requirements specification are as follows:

- Complete: The SRS should be complete i.e. all the software requirements should be mentioned in the SRS.
- Correct: It should be correct i.e. it should be according to the needs of the customer.
- Clear: It should be clear. The requirements of the software should be clearly declared.
- Accurate: It should have accuracy. If this is not accurate then the software cannot be developed.
- Consistent: It should be consistent from beginning to end so that users can easily understand the requirements.
- Verifiable: It should be verifiable. The requirements are verified by experts and testers.
- Modifiable: All the requirements specified in the SRS document should be modifiable. This can happen only when the structure of SRS is balanced.
- Traceable: It should be traceable, that is, each requirement in it should be identified differently. Each requirement should have its own identity.
- Testable: It should be testable i.e. it should be capable of being tested in any way.
- Unambiguous: It can be unambiguous only when all the requirements have only one meaning. That is, there should be only one interpretation.

The benefits of a good SRS:

The SRS provides a common communication channel between stakeholders, so that everyone agrees as to what the project aims at. It reduces ambiguity and the risks of misunderstandings among team members in clearly defining requirements. It provides a basis for planning projects, which allows teams to accurately estimate costs and schedules.

The SRS is used to guide developers in their understanding of the functional specifications and how the software will be designed. SRSs are used as references by quality assurance

and testing teams, which use them to design test cases verifying that the software conforms with what was specified. During projects, changes are unavoidable. The SRS thus provides a baseline from which any proposed changes can be judged. This guarantees that changes are thoroughly recorded, approved and properly implemented– without scope creep. The SRS helps in risk assessment by specifying dependencies, constraints and possible risks. This makes the development process smoother for project managers who can then come up with strategies to prevent risk.

Hardware and Software Requirement

Minimum Hardware Requirement:

Server Side	
Processor:	64 bits
Hard Disk:	1 GB free space
RAM:	4 GB

Client Side	
Processor:	64 bits
Hard Disk:	2 GB free space
RAM:	4 GB

Minimum Software Requirement:

Server Side	
Operating System:	Windows 11
Web Server:	XAMP
Frontend Tools:	HTML, CSS, Bootstrap, Swiper JS, JS
Backend Tools:	PHP, MySQL

Client Side	
Operating System:	Windows 11 or any compatible OS
Web Browser:	Chrome or any compatible browser

PHP:

The term PHP is an acronym for – Hypertext Preprocessor. PHP is a server-side scripting language designed specifically for web development. The file extension of PHP is ".php". It is an interpreted language and it does not require a compiler. It is an open-source, server-side programming language that can be used to create websites, applications, customer relationship management systems and more. It is a widely-used general-purpose language

that can be embedded into HTML. This functionality with HTML means that the PHP language has remained popular with developers as it helps to simplify HTML code.

Advantages of PHP:

- ❖ It is cross-platform: PHP can be run on any major operating system, so you don't have to worry about compatibility. This means we can work on a project team and not have to worry about members being able to access code.
- ❖ It's open-source: Open-source means that PHP is a free programming language that do not require additional costs when building a project.
- ❖ Many developers understand it: The longevity of PHP means there's already a large community out there to support, and a large amount of legacy code to help us get started with projects.
- ❖ It works brilliantly with HTML: PHP can help in simplifying projects and works seamlessly with this dominant programming language.

MySQL:

MySQL is a relational database management system based on the Structured Query Language, which is the popular language for accessing and managing the records in the database. MySQL is open-source and free software under the GNU license. It is supported by Oracle Company. MySQL stores data in tables made up of rows and columns. Users can define, manipulate, control, and query data using Structured Query Language, more commonly known as SQL.

MySQL is an important component of an open-source enterprise stack called LAMP. LAMP is a web development platform that uses Linux as the operating system, Apache as the web server, MySQL as the relational database management system and PHP as the object-oriented scripting language.

HTML:

HTML stands for Hyper Text Markup Language. It is the standard markup language used to create web pages. HTML is a combination of Hypertext and Markup language. Hypertext defines the link between web pages. A markup language is used to define the text document within the tag to define the structure of web pages. HTML defines the structure and layout of a Web document by using a variety of tags and attributes. There are hundreds of other tags used to format and layout the information in a Web page. Tags are also used to specify hypertext links.

This language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly. Most markup languages (e.g. HTML) are human-readable. The language uses tags to define what manipulation has to be done on the text.

Cascading Style Sheet (CSS):

CSS stands for Cascading style sheets. It describes to the user how to display HTML elements on the screen in a proper format. CSS is the language that is used to style HTML

documents. In simple words, cascading style sheets are a language used to simplify the process of making a webpage.

CSS is used to handle some parts of the webpage. With the help of CSS, we can control the colour of text and style of fonts, and we can control the spacing between the paragraph and many more things. CSS is easy to understand but provides strong control on the Html documents.CSS is combined with HTML.

Advantages of CSS:

- ❖ Faster page speed: It has a faster page speed than other code's page speeds.
- ❖ Better user experience: CSS makes a webpage very attractive to the eyes. Also, CSS makes it user-friendly.
- ❖ Quicker Development time: With the help of CSS, we can specify the format and style the multiple pages into one code string. In cascading style sheet, we can make a duplicate copy of several website pages.
- ❖ Easy Formatting changes: In CSS, making changes in the format is very easy; we only need to change the one-page format it will automatically apply to the other pages of CSS. There is no need to correct individual pages in a CSS style sheet. If we fix a CSS style sheet, it will automatically update the other CSS style sheet.
- ❖ Compatibility: Compatibility is very important in today's age. If we create any webpage, it should be very responsive and user-friendly. CSS is used with Html to make webpage design responsive.

JavaScript (JS):

JavaScript was first known as LiveScript, but Netscape changed its name to JavaScript, possibly because of the excitement being generated by Java. JavaScript made its first appearance in Netscape 2.0 in 1995 with the name LiveScript. The general-purpose core of the language has been embedded in Netscape, Internet Explorer, and other web browsers. JavaScript is a lightweight, cross-platform, single-threaded, and interpreted compiled programming language. It is also known as the scripting language for webpages. It is well-known for the development of web pages, and many non-browser environments also use it. JavaScript is a weakly typed language (dynamically typed). JavaScript can be used for Client-side developments as well as Server-side developments. JavaScript is both an imperative and declarative type of language.

Advantages of JavaScript:

❖ Less server interaction - We can validate user input before sending the page off to the sever. This saves server traffic, which means fewer loads on our server.

❖ Immediate feedback to the visitors - They don't have to wait for a page reload to see if they have forgotten to enter something.

❖ Increased interactivity - We can create interfaces that react when the user hovers over them with a mouse or activates them via the keyboard.

❖ Richer interfaces- We can use JavaScript to include such items as drag-and-drop components and sliders to give a Rich Interface to our site visitors.

Limitations of JavaScript:

❖ Client-side JavaScript does not allow the reading or writing of files. It has been kept for the security reason.
❖ JavaScript could not be used for networking applications because there is no such support available.
❖ JavaScript doesn't have any multithreading or multiprocessor capabilities.

Swiper JS:

Swiper is a popular JavaScript library for creating touch-friendly and responsive slider/carousel components for websites and web applications. It allows us to display a set of images, cards, or any content in a way that users can swipe or navigate through them on touch devices or use navigation controls on desktop browsers.

Swiper.js stands out among other JavaScript libraries for its focus on touch slider capabilities. It is often compared to other libraries, but its dedicated approach to providing a smooth sliding experience makes it a preferred choice for many developers.

Bootstrap:

Bootstrap is the most popular HTML, CSS and JavaScript framework for developing a responsive and mobile friendly website. It is absolutely free to download and use. It is a front-end framework used for easier and faster web development. It includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many others. It can also use JavaScript plug-ins. It facilitates us to create responsive designs.

7. <u>System Design</u>

<u>System design:</u>

System design is the process of defining the elements of a system such as the architecture, modules and components, the different interfaces of those components and the data that goes through that system.

Here the examples of graphical modelling we use in System design:

- ❖ Data flow diagram
- ❖ Entity relationship diagram
- ❖ Use Case Diagram

<u>Data flow diagram (DFD):</u>

A data flow diagram (DFD) is a graphical representation of the "flow" of data through an information system, modelling its process aspects.

Entity: Entity is an object of the system. A source or destination data of a system.
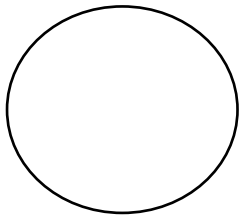
Process: A Process or task performed by the system.

Data Flow: Data flow are pipelines through the packets of information flow.

Data Store: A place where data to be stored.

<u>Level- 0 DFD:</u>

Level- 1 DFD for ADMIN:

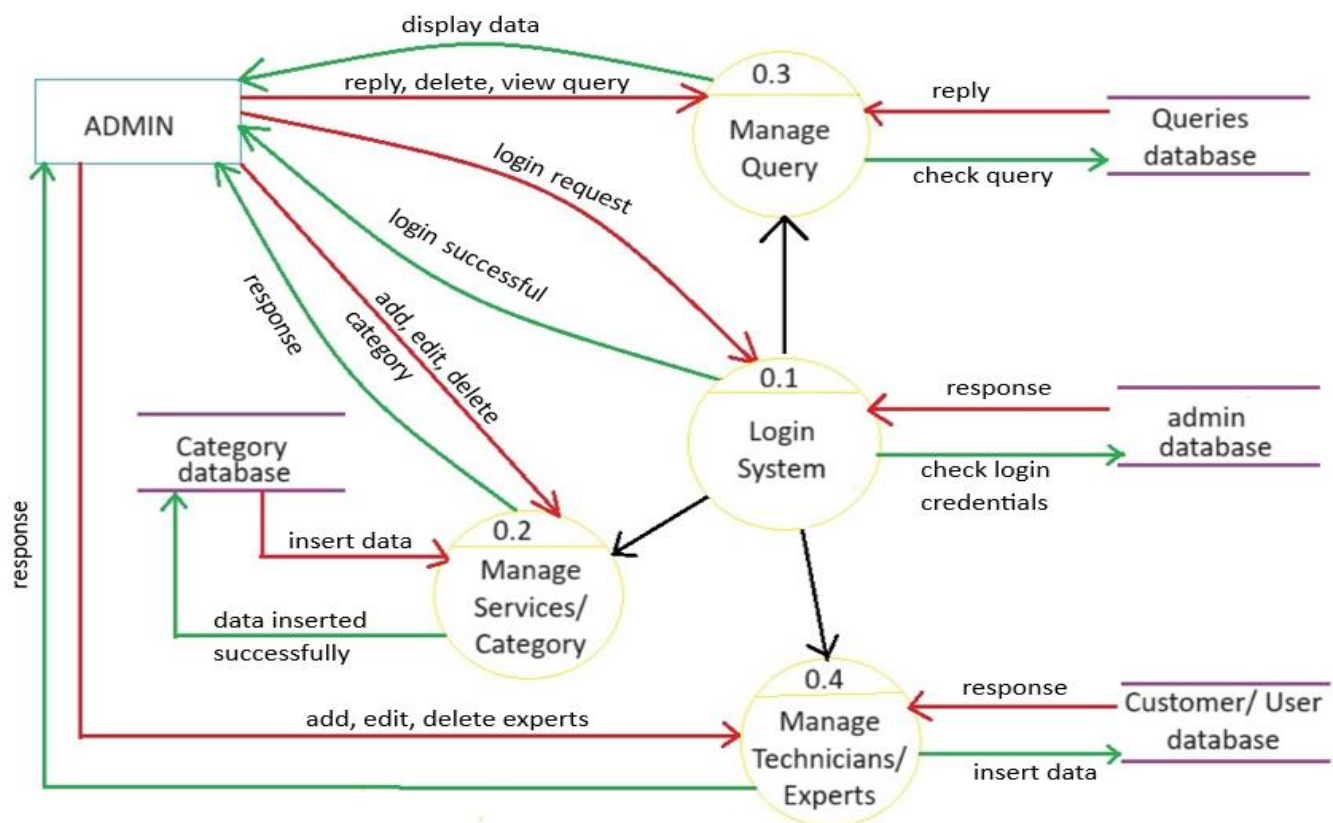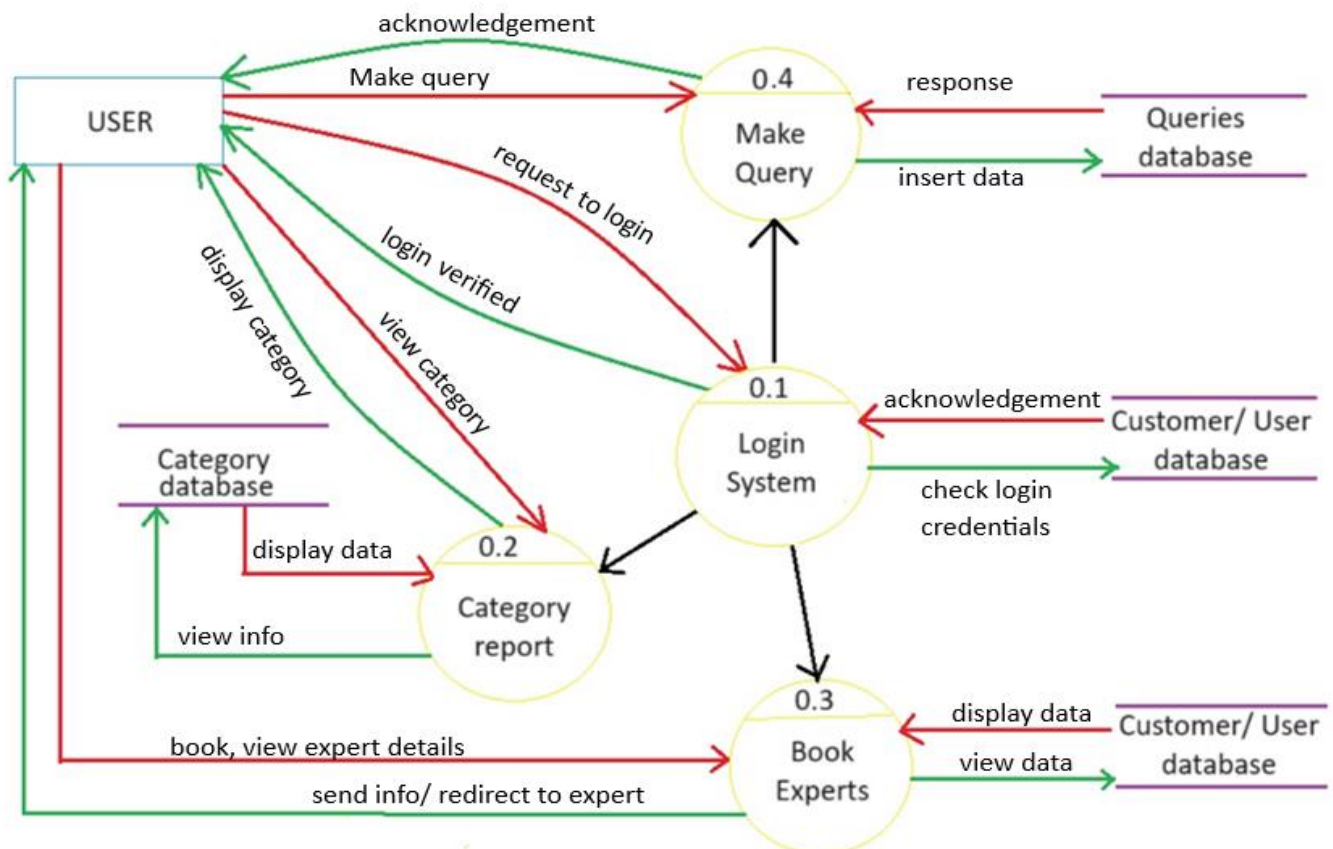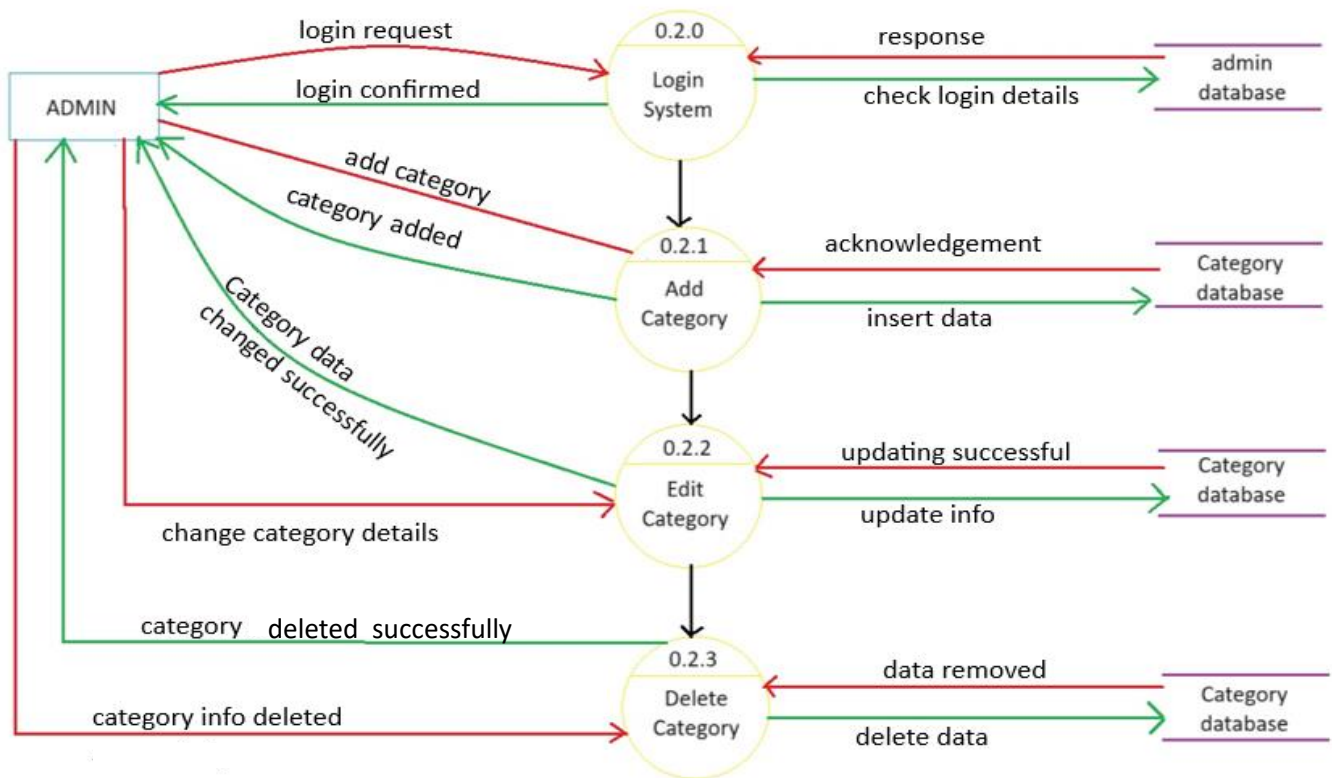## Level- 1 DFD for USER:

Level- 2 DFD for ADMIN (0.2):

ADMIN

- login request →
- ← login confirmed

0.2.0 Login System
- ← response
- check login details → **admin database**

- add category →
- ← category added

0.2.1 Add Category
- ← acknowledgement
- insert data → **Category database**

- Category data changed successfully →
- ← change category details

0.2.2 Edit Category
- ← updating successful
- update info → **Category database**

- category deleted successfully →
- category info deleted →

0.2.3 Delete Category
- ← data removed
- delete data → **Category database**

Level- 2 DFD for ADMIN (0.4):

ADMIN

- login request →
- ← login confirmation

0.4.0 Login System
- ← response
- check details → **admin database**

- add technician/ expert →
- ← expert info added

0.4.1 Add Experts
- ← data added successfully
- insert info → **Customer database**

- view changes →
- Approve expert application →
- Reject expert application →

0.4.2 Pending Expert application
- ← response
- insert data → **Customer database**

- expert details successfully removed →
- delete expert data →

0.4.3 Delete Experts
- ← remove data
- successful deletion of expert info → **Customer database**

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Level- 2 DFD for USER:

Entity–relationship diagram (ER diagram):

An entity-relationship diagram (ERD) is a graphical representation of an information system that shows the relationship between people, objects, places, concepts or events within that system.
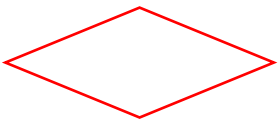
Symbols:

Rectangles represent Entities in the ER Model.

Ellipses represent Attributes in the ER Model.

Diamonds represent Relationships among Entities.

Lines represent attributes to entities and entity sets with other relationship types.

Relationships Between Entities:

❖ One-to-One

One instance of an entity (A) is associated with one other instance of another entity (B). For example, in a database of employees, each employee name (A) is associated with only one social security number (B).
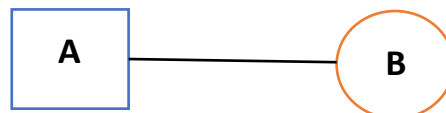
❖ One-to-Many

One instance of an entity (A) is associated with zero, one or many instances of another entity (B), but for one instance of entity B there is only one instance of entity A. For example, for a company with all employees working in one building, the building name (A) is associated with many different employees (B), but those employees all share the same singular association with entity A.
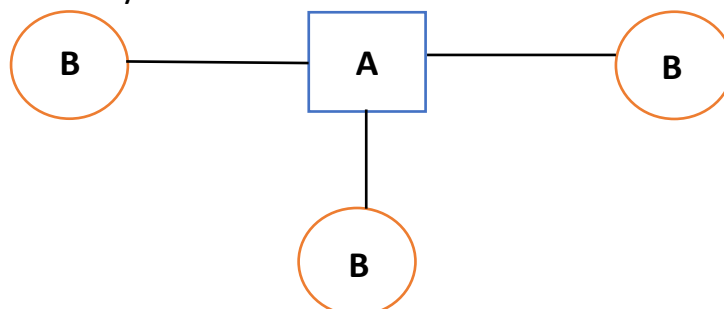
❖ Many-to-Many

One instance of an entity (A) is associated with one, zero or many instances of another entity (B), and one instance of entity B is associated with one, zero or many instances of

entity A. For example, for a company in which all of its employees work on multiple projects, each instance of an employee (A) is associated with many instances of a project (B), and at the same time, each instance of a project (B) has multiple employees (A) associated with it.
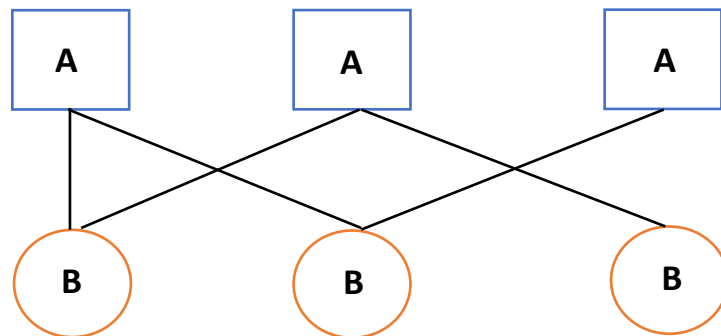
ER (Entity Relationship) diagram:
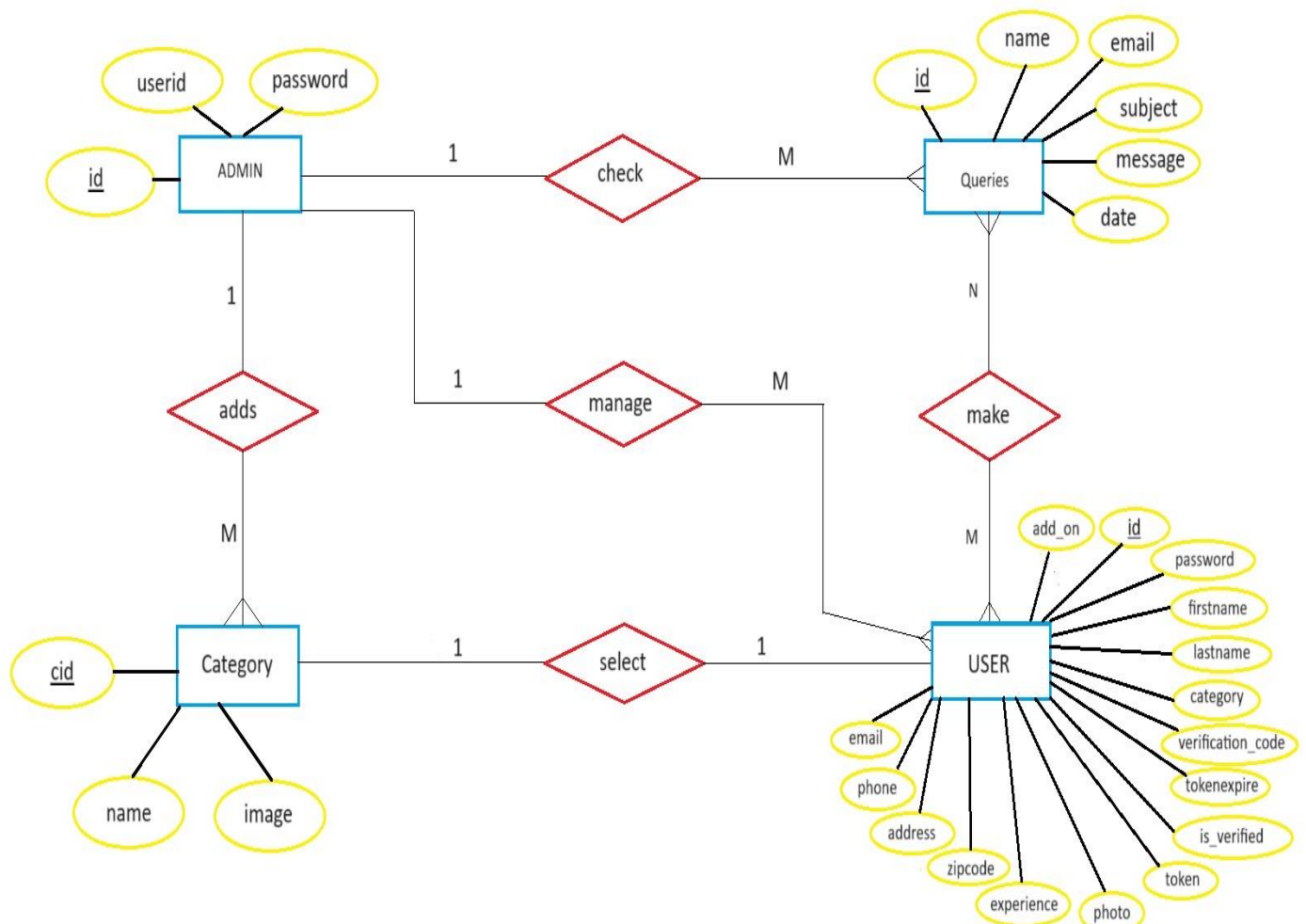
Use Case diagram:

A Use Case Diagram is a vital tool in system design, it provides a visual representation of how users interact with a system. It serves as a blueprint for understanding the functional requirements of a system from a user's perspective, aiding in the communication between stakeholders and guiding the development process.

Online Home Repair & Maintenance System

8. Flow Chart

9. Testing

Software testing is an investigation conducted to provide stakeholders with information about the quality of the product or service under test. Software testing can also provide an objective, independent view of the software to 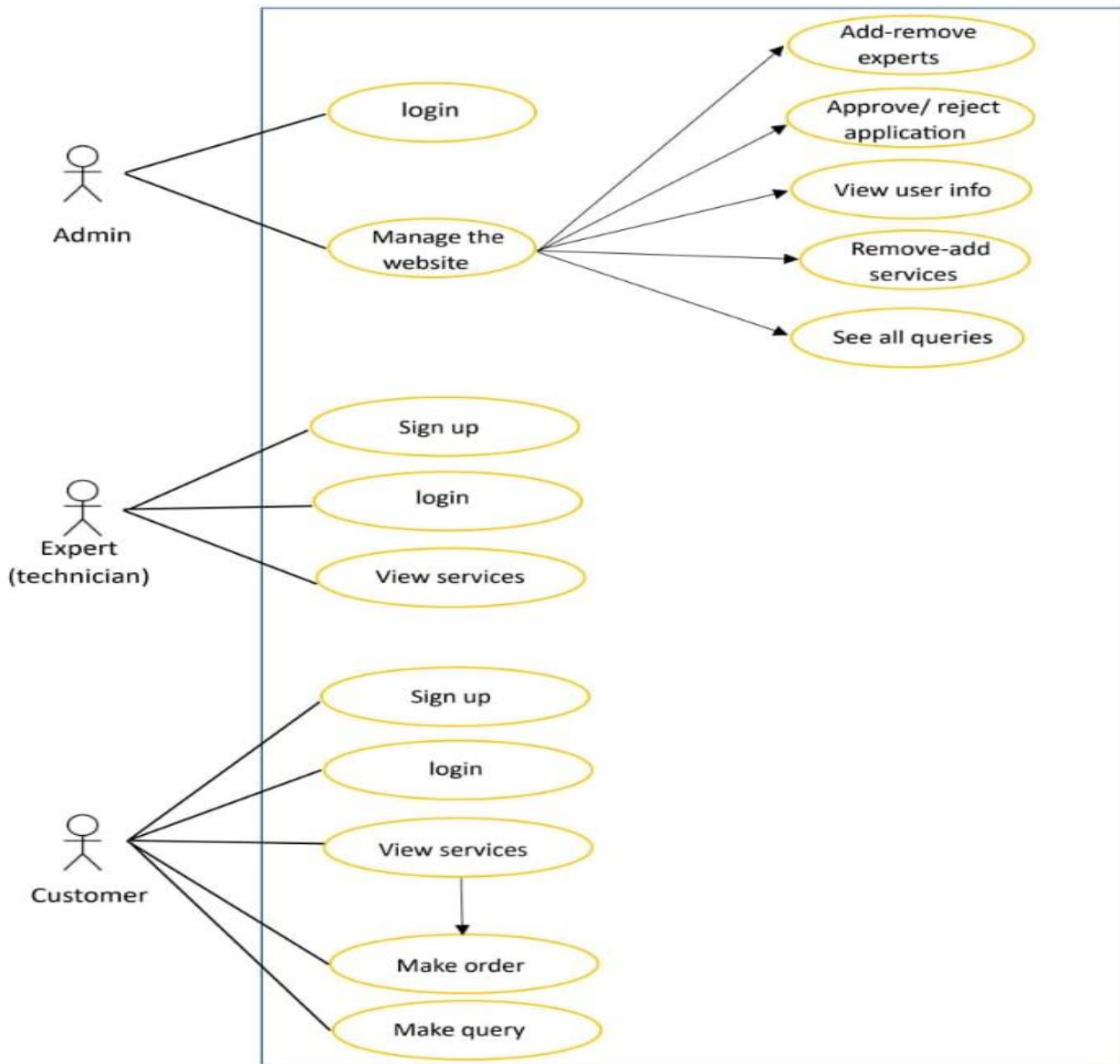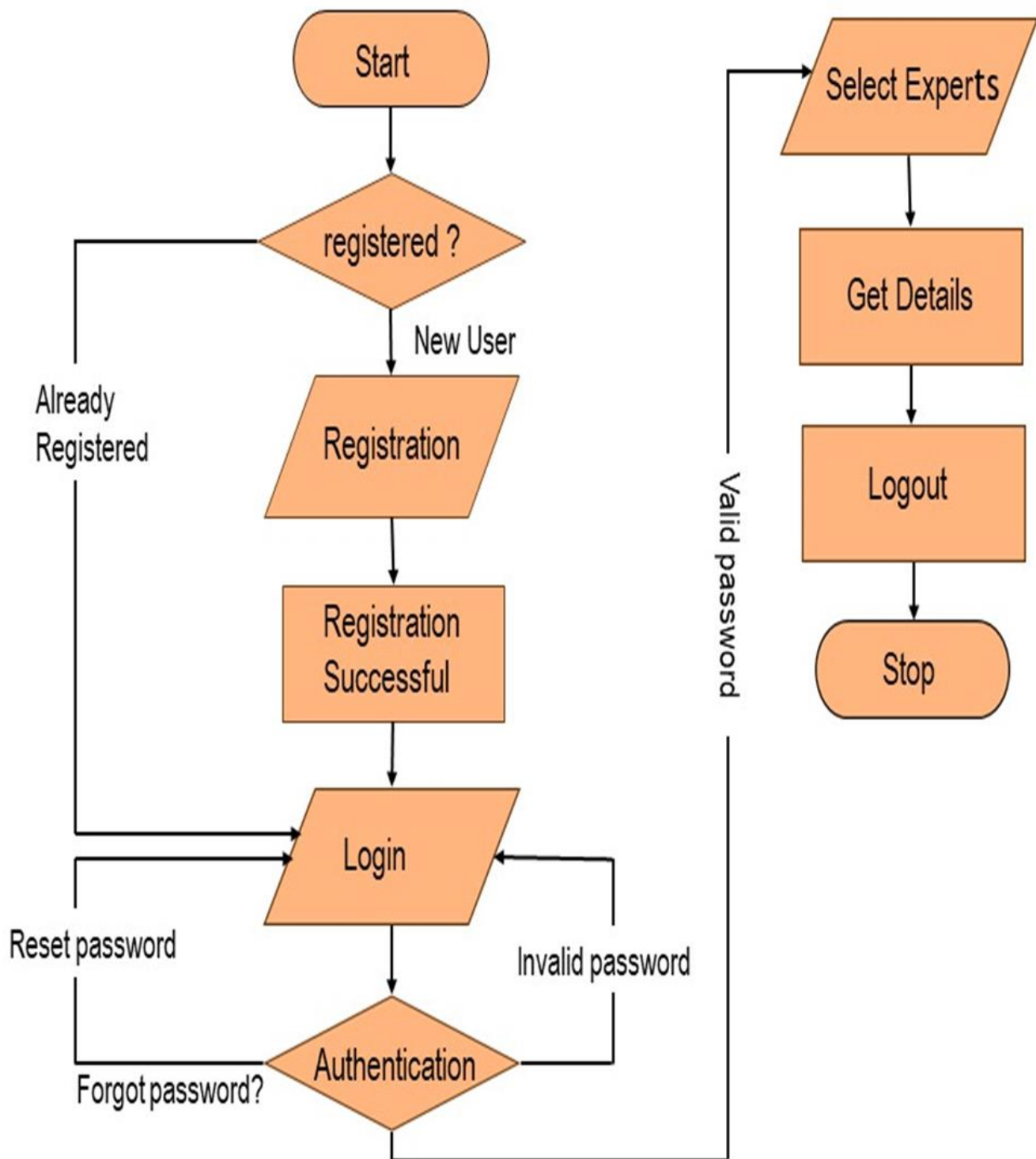allow the business to appreciate and understand the risks of software implementation. Test techniques include the process of executing a program an application with the intent of finding software errors or other defects.

Software testing involves the execution of a software component or system component to evaluate one or more properties of interest. In general, these properties indicate the level to which the components or system under test:

- ❖ Meets the requirements that guided its design and development.
- ❖ Responds correctly to all kind of inputs.
- ❖ Performs its functions within an acceptable time.
- ❖ Is sufficiently usable?
- ❖ Can be installed and run in its intended environments, and
- ❖ Achieves the general result its stakeholder's desire.

As the number of possible tests for even simple software components is practically infinite, all software testing uses some strategy to select tests that are feasible for the available time and resources. As a result, software testing typically attempts to execute a program or application with the intent of finding software bugs. The job of testing is an iterative process as when one bug is fixed it can illuminate other, deeper bugs, or can even create new ones. Software testing can provide objective, independent information about the quality of the software executable software exists. The overall approach to software development often determines when and how testing is conducted. For example, in a phased process, most testing occurs after system requirements have been defined and then implemented in testable programs. In contrast, under an Agile approach, requirements, programming, and test often done concurrently.

10. Some Snapshots

Home Page
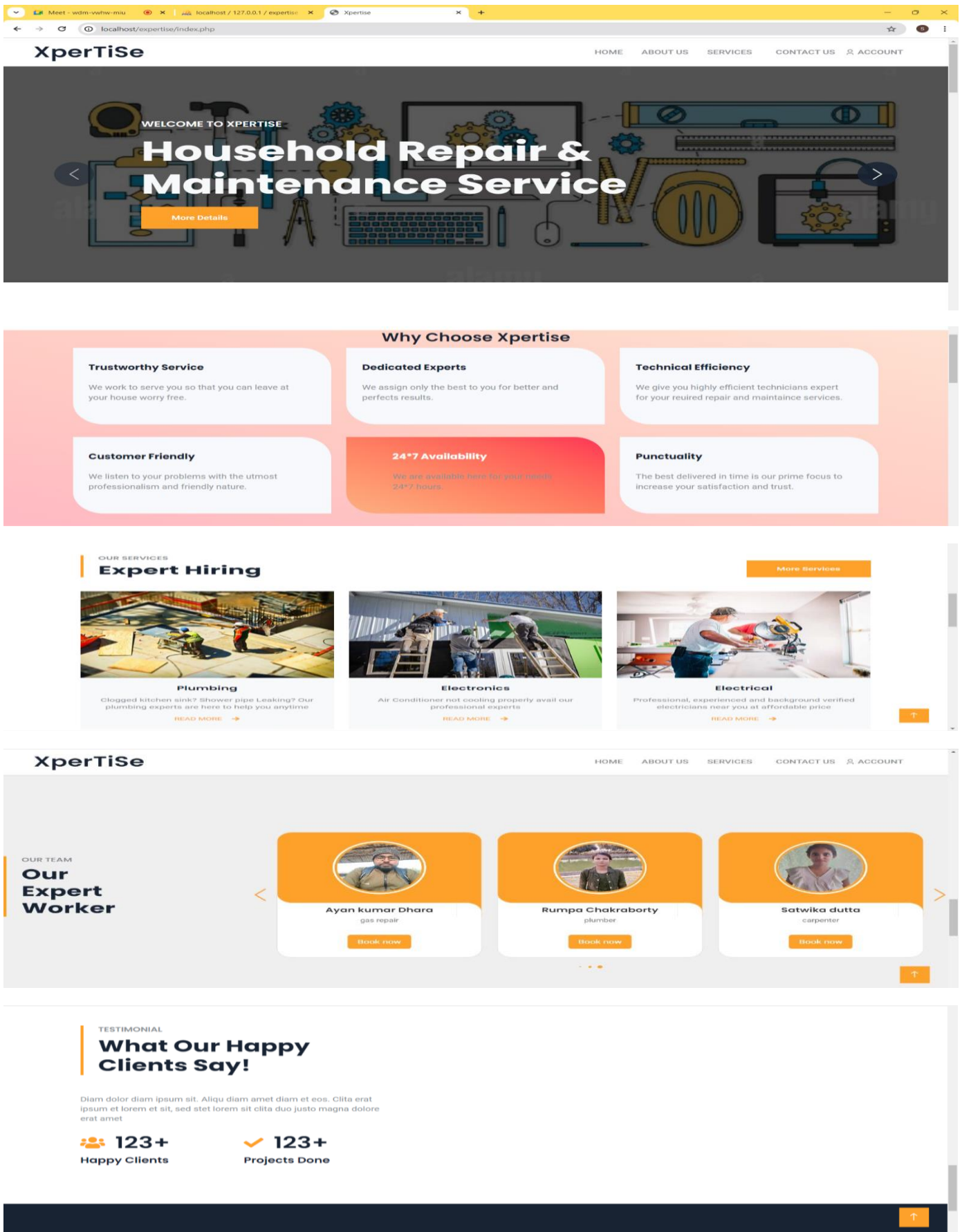
About us Page
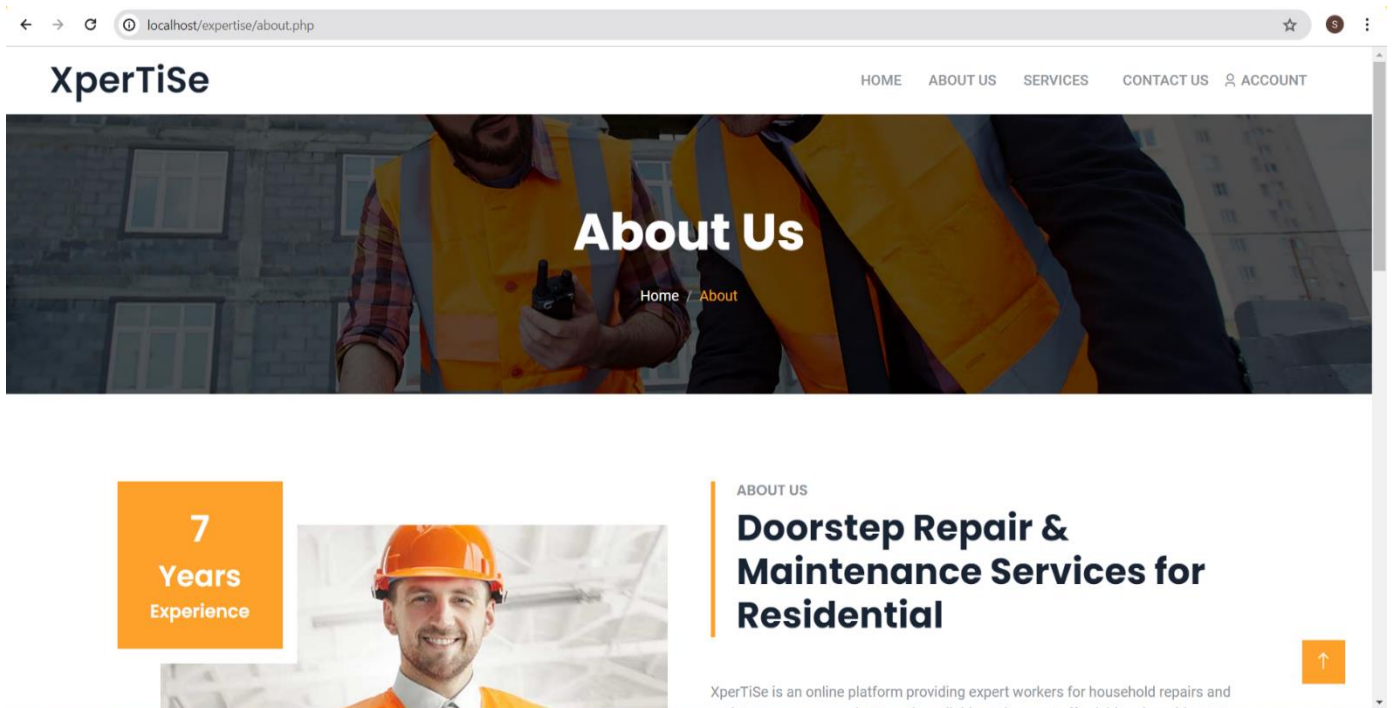
Login Page

Contact Us Page

ADMIN Panel

Services Page

Gas Repair:

Plumber:
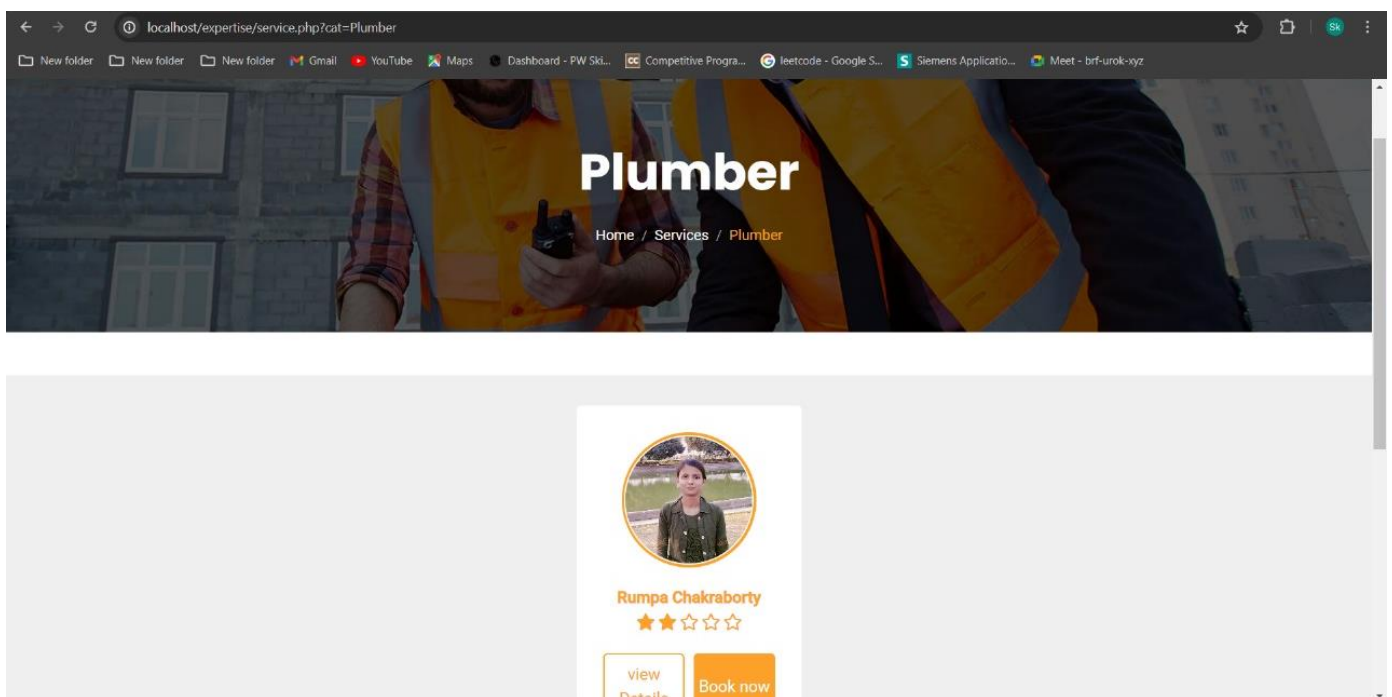
Carpenter:

Gas Repair:

11. <u>Sample Coding</u>

<u>Source Codes:</u>

<u>Source Code for Login Page</u>

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Xpertise</title>
    <link rel="stylesheet" href="https://unpkg.com/bootstrap@5.3.2/dist/css/bootstrap.min.css">
<link rel="stylesheet" href="https://unpkg.com/bs-brain@2.0.3/components/logins/login-7/assets/css/login-7.css">

<!-- Favicon -->
<link href="img/favicon.ico" rel="icon">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/remixicon/3.5.0/remixicon.css" crossorigin="">
<link rel="stylesheet" href="css/swiper-bundle.min.css">
<!-- CSS -->
<link rel="stylesheet" href="css/style.css">

<!-- Google Web Fonts -->
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link href="https://fonts.googleapis.com/css2?family=Roboto:wght@400;500&family=Poppins:wght@600;700&display=swap" rel="stylesheet">

<!-- Icon Font Stylesheet -->
<link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.10.0/css/all.min.css" rel="stylesheet">
<link href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.4.1/font/bootstrap-icons.css" rel="stylesheet">

<!-- Libraries Stylesheet -->
<link href="lib/animate/animate.min.css" rel="stylesheet">
<link href="lib/owlcarousel/assets/owl.carousel.min.css" rel="stylesheet">

<!-- Customized Bootstrap Stylesheet -->
<link href="css/bootstrap.min.css" rel="stylesheet">
<!-- <link rel="stylesheet" href="css/bootstrap.min.css"> -->
<!-- Template Stylesheet -->
<link href="css/style.css" rel="stylesheet">
<link rel="stylesheet" href="style1.css">
```

```html
</head>
<body>
  <!-- Login 7 - Bootstrap Brain Component -->

  <nav class="navbar navbar-expand-lg bg-white navbar-light sticky-top px-4 px-lg-5 py-lg-0">
    <a href="index.html" class="navbar-brand d-flex align-items-center">
      <h1 class="m-0"><img src="">XperTiSe</h1>
    </a>
    <button type="button" class="navbar-toggler" data-bs-toggle="collapse" data-bs-target="#navbarCollapse">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarCollapse">
      <div class="navbar-nav ms-auto py-3 py-lg-0">
        <a href="index.html" class="nav-item nav-link active">Home</a>
        <a href="about.html" class="nav-item nav-link ">About Us</a>
        <!-- <div class="nav-item dropdown">
          <a href="#" class="nav-link dropdown-toggle" data-bs-toggle="dropdown">My Account</a>
          <div class="dropdown-menu bg-light m-0">
            <a href="feature.html" class="dropdown-item">Register</a>
            <a href="appointment.html" class="dropdown-item">Login</a>
          </div>
        </div> -->
        <div class="nav-item dropdown">
          <a href="#" class="nav-link dropdown-toggle" data-bs-toggle="dropdown">Services</a>
          <div class="dropdown-menu bg-light m-0">
            <a href="plumbing.html" class="dropdown-item">Plumbing</a>
            <a href="electrical.html" class="dropdown-item">Electrical</a>
            <a href="electronics.html" class="dropdown-item">Electronics</a>
            <a href="carpentry.html" class="dropdown-item">Carpentry</a>
            <a href="gas stove.html" class="dropdown-item">Gas Stove Service</a>
          </div>
        </div>

        <a href="contact.html" class="nav-item nav-link">Contact Us</a>
      </div>
    </div>
    <div class="nav-item dropdown">
      <a href="" class="nav-link dropdown-toggle"  id="cit"data-bs-toggle="dropdown"><i class="ri-user-3-line" > </i>ACCOUNT</a>
      <div class="dropdown-menu bg-light m-0">
        <a href="register.html" class="nav-link dropdown-toggle"  data-bs-toggle="dropdown"><i class="ri-user-3-line" > </i>Register/Login</a>

      </div>
    </div>
  </nav>
  <!-- Navbar End -->
```
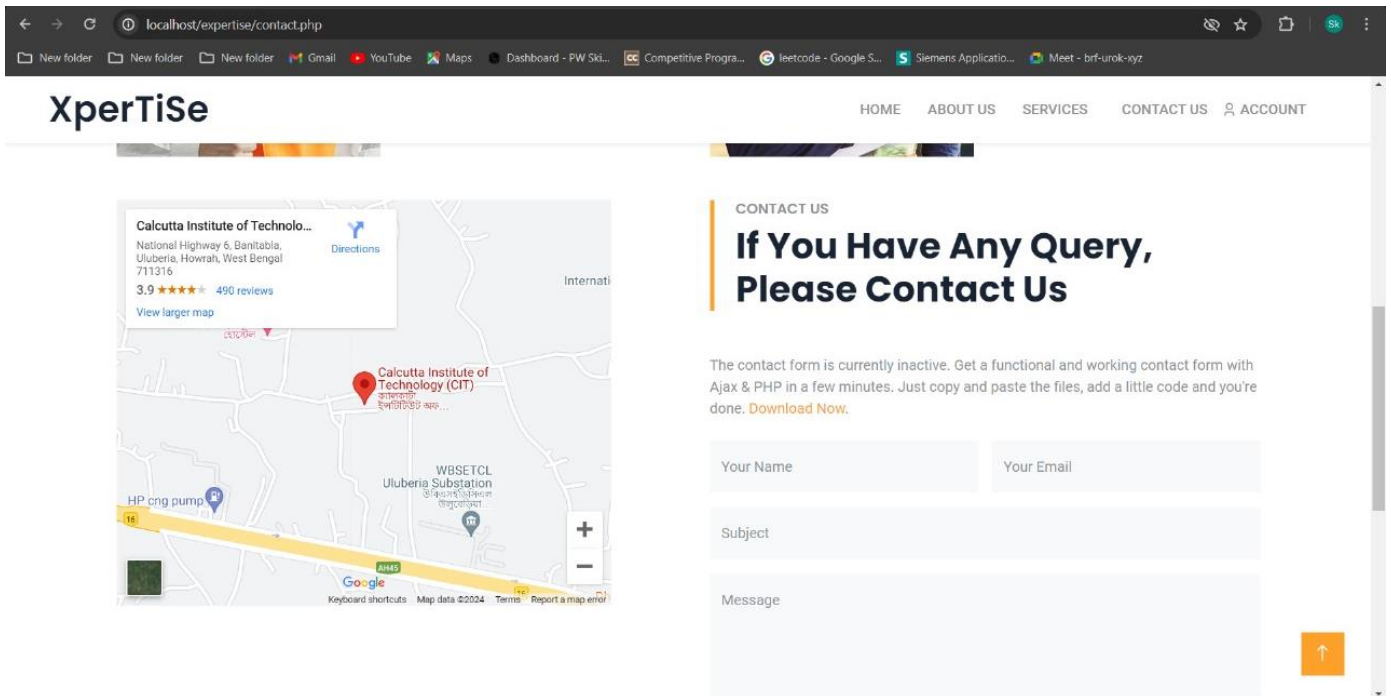
```html
<section class="bg-light p-3 p-md-4 p-xl-5">
  <div class="container">
    <div class="row justify-content-center">
      <div class="col-12 col-md-9 col-lg-7 col-xl-6 col-xxl-5">
        <div class="card border border-light-subtle rounded-4">
          <div class="card-body p-3 p-md-4 p-xl-5">
            <div class="row">
              <div class="col-12">
                <div class="mb-5">
              </div>
              <form action="#!">
                <div class="row gy-3 overflow-hidden">
                  <div class="col-12">
                    <div class="form-floating mb-3">
                      <input type="email" class="form-control" name="email" id="email"
placeholder="name@example.com" required>
                      <label for="email" class="form-label">Email</label>
                    </div>
                  </div>
                  <div class="col-12">
                    <div class="form-floating mb-3">
                      <input type="password" class="form-control" name="password" id="password" value=""
placeholder="Password" required>
                      <label for="password" class="form-label">Password</label>
                    </div>
                  </div>
                  <div class="col-12">
                    <div class="form-check">
                      <input class="form-check-input" type="checkbox" value="" name="remember_me"
id="remember_me">
                      <label class="form-check-label text-secondary" for="remember_me">
                        Keep me logged in
                      </label>
                    </div>
                  </div>
                  <div class="col-12">
                    <div class="d-grid">
                      <button class="btn bsb-btn-xl btn-primary" type="submit" style="background-color:
#FDA12B;">Log in now</button>
                    </div>
                  </div>
                </div>
              </form>
              <div class="row">
                <div class="col-12">
                  <hr class="mt-5 mb-4 border-secondary-subtle">
                  <div class="d-flex gap-2 gap-md-4 flex-column flex-md-row justify-content-md-end">
```
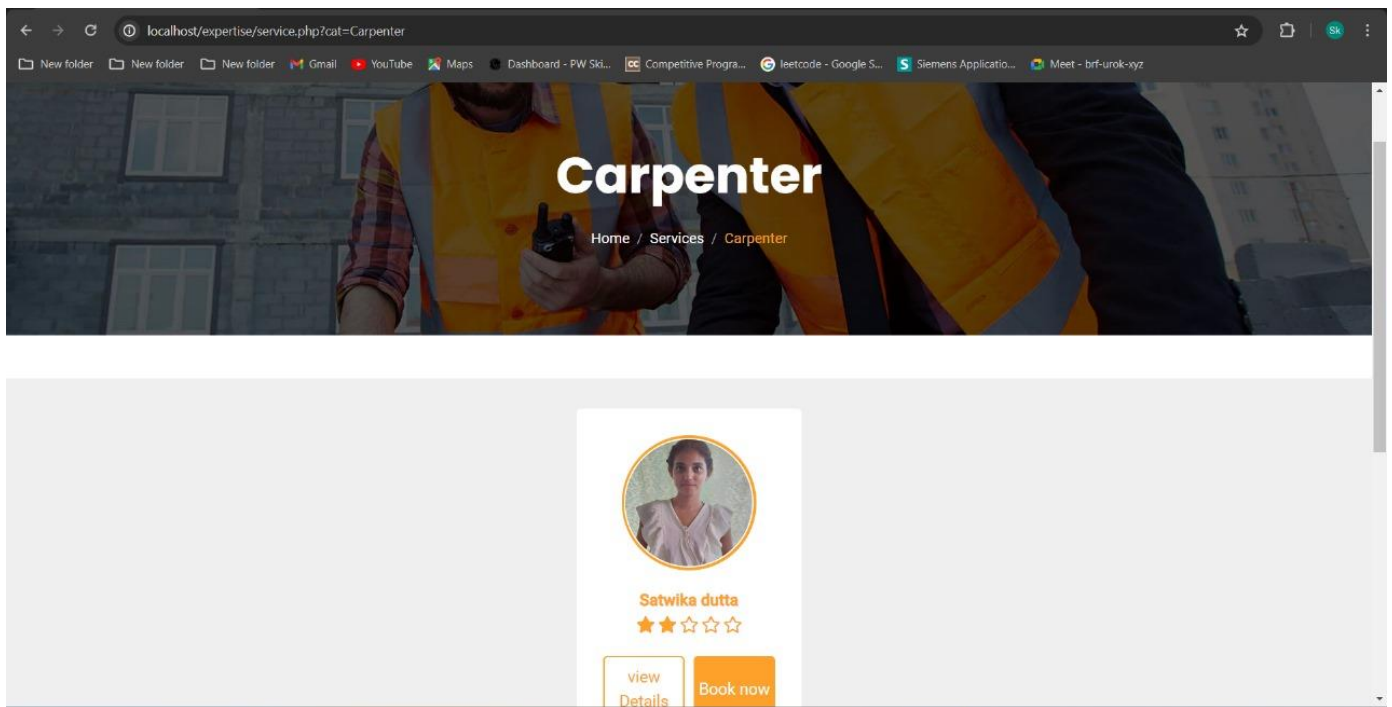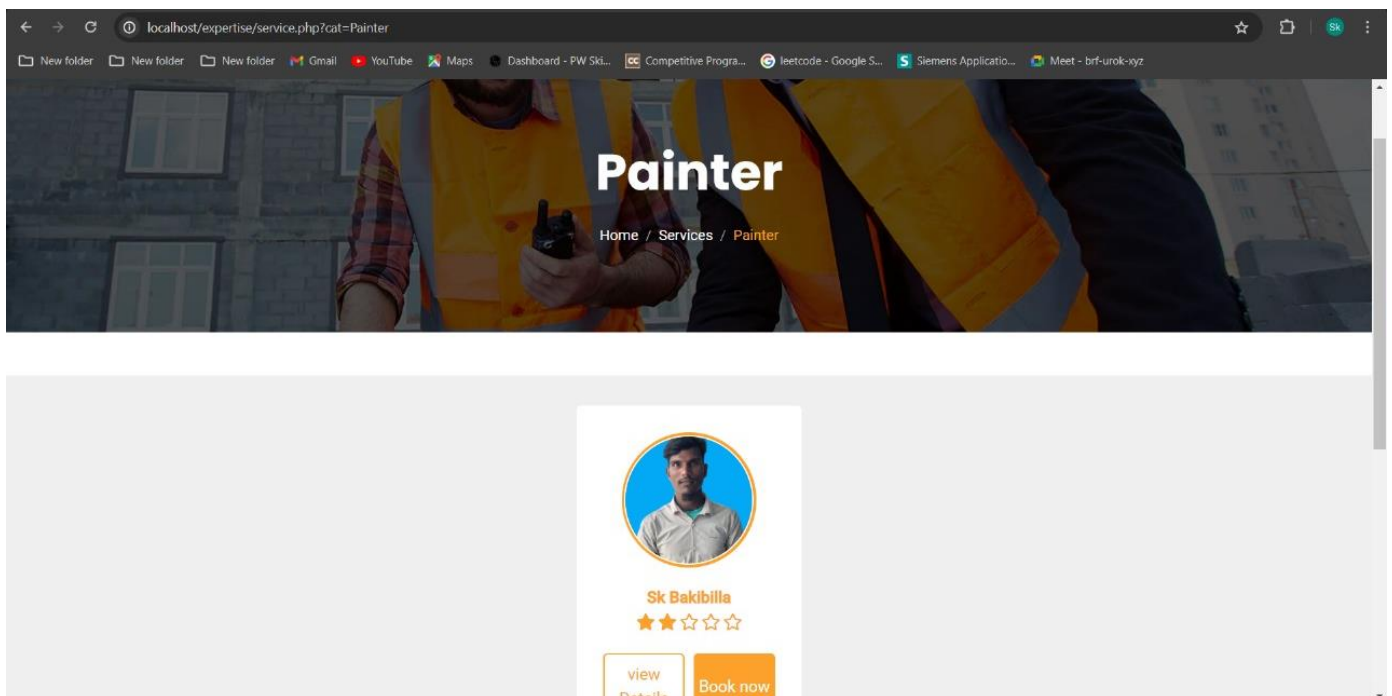
```
                  <a href="#!" class="link-secondary text-decoration-none">Create new account</a>
                  <a href="#!" class="link-secondary text-decoration-none">Forgot password</a>
               </div>
            </div>
         </div>
         <div class="row">
          <div class="col-12">
            <p class="mt-5 mb-5">Or continue with</p>
            <div class="d-flex gap-2 gap-sm-3 justify-content-center">
              <a href="#!" class="btn btn-lg btn-outline-danger p-3 lh-1">
                <svg xmlns="http://www.w3.org/2000/svg" width="28" height="28" fill="currentColor"
class="bi bi-google" viewBox="0 0 16 16">
                   <path d="M15.545 6.558a9.42 9.42 0 0 1 .139 1.626c0 2.434-.87 4.492-2.384
5.885h.002C11.978 15.292 10.158 16 8 16A8 8 0 1 1 8 0a7.689 7.689 0 0 1 5.352 2.082l-2.284
2.284A4.347 4.347 0 0 0 8 3.166c-2.087 0-3.86 1.408-4.492 3.304a4.792 4.792 0 0 0 0 3.063h.003c.635
1.893 2.405 3.301 4.492 3.301 1.078 0 2.004-.276 2.722-.764h-.003a3.702 3.702 0 0 0 1.599-2.431H8v-
3.08h7.545z" />
                </svg>
              </a>
              <a href="#!" class="btn btn-lg btn-outline-primary p-3 lh-1">
                <svg xmlns="http://www.w3.org/2000/svg" width="28" height="28" fill="currentColor"
class="bi bi-facebook" viewBox="0 0 16 16">
                   <path d="M16 8.049c0-4.446-3.582-8.05-8-8.05C3.58 0-.002 3.603-.002 8.05c0 4.017 2.926
7.347 6.75 7.951v-5.625h-2.03V8.05H6.75V6.275c0-2.017 1.195-3.131 3.022-3.131.876 0 1.791.157
1.791.157v1.98h-1.009c-.993 0-1.303.621-1.303 1.258v1.51h2.218l-.354 2.326H9.25V16c3.824-.604 6.75-
3.934 6.75-7.951z" />
                </svg>
              </a>
              <a href="#!" class="btn btn-lg btn-outline-info p-3 lh-1">
                <svg xmlns="http://www.w3.org/2000/svg" width="28" height="28" fill="currentColor"
class="bi bi-twitter" viewBox="0 0 16 16">
                   <path d="M5.026 15c6.038 0 9.341-5.003 9.341-9.334 0-.14 0-.282-.006-.422A6.685 6.685 0
0 0 16 3.542a6.658 6.658 0 0 1-1.889.518 3.301 3.301 0 0 0 1.447-1.817 6.533 6.533 0 0 1-
2.087.793A3.286 3.286 0 0 0 7.875 6.03a9.325 9.325 0 0 1-6.767-3.429 3.289 3.289 0 0 0 1.018
4.382A3.323 3.323 0 0 1 .64 6.575v.045a3.288 3.288 0 0 0 2.632 3.218 3.203 3.203 0 0 1-.865.115 3.23
3.23 0 0 1-.614-.057 3.283 3.283 0 0 0 3.067 2.277A6.588 6.588 0 0 1 .78 13.58a6.32 6.32 0 0 1-.78-
.045A9.344 9.344 0 0 0 5.026 15z" />
                </svg>
              </a>
              <a href="#!" class="btn btn-lg btn-outline-dark p-3 lh-1">
                <svg xmlns="http://www.w3.org/2000/svg" width="28" height="28" fill="currentColor"
class="bi bi-apple" viewBox="0 0 16 16">
                   <path d="M11.182.008C11.148-.03 9.923.023 8.857 1.18c-1.066 1.156-.902 2.482-.878
2.516.024.034 1.52.087 2.475-1.258.955-1.345.762-2.391.728-2.43Zm3.314 11.733c-.048-.096-2.325-
1.234-2.113-3.422.212-2.189 1.675-2.789 1.698-2.854.023-.065-.597-.79-1.254-1.157a3.692 3.692 0 0 0-
1.563-.434c-.108-.003-.483-.095-1.254.116-.508.139-1.653.589-1.968.607-.316.018-1.256-.522-2.267-
.665-.647-.125-1.333.131-1.824.328-.49.196-1.422.754-2.074 2.237-.652 1.482-.311 3.83-.067
4.56.244.729.625 1.924 1.273 2.796.576.984 1.34 1.667 1.659 1.899.319.232 1.219.386 1.843.067.502-
```

```
.308 1.408-.485 1.766-.472.357.013 1.061.154 1.782.539.571.197 1.111.115 1.652-.105.541-.221 1.324-
1.059 2.238-2.758.347-.79.505-1.217.473-1.282Z" />
                <path d="M11.182.008C11.148-.03 9.923.023 8.857 1.18c-1.066 1.156-.902 2.482-.878
2.516.024.034 1.52.087 2.475-1.258.955-1.345.762-2.391.728-2.43Zm3.314 11.733c-.048-.096-2.325-
1.234-2.113-3.422.212-2.189 1.675-2.789 1.698-2.854.023-.065-.597-.79-1.254-1.157a3.692 3.692 0 0 0-
1.563-.434c-.108-.003-.483-.095-1.254.116-.508.139-1.653.589-1.968.607-.316.018-1.256-.522-2.267-
.665-.647-.125-1.333.131-1.824.328-.49.196-1.422.754-2.074 2.237-.652 1.482-.311 3.83-.067
4.56.244.729.625 1.924 1.273 2.796.576.984 1.34 1.667 1.659 1.899.319.232 1.219.386 1.843.067.502-
.308 1.408-.485 1.766-.472.357.013 1.061.154 1.782.539.571.197 1.111.115 1.652-.105.541-.221 1.324-
1.059 2.238-2.758.347-.79.505-1.217.473-1.282Z" />
              </svg>
            </a>
          </div>
        </div>
      </div>
     </div>
    </div>
   </div>
  </section>
  <div class="container-fluid bg-dark footer mt-5 pt-5 wow fadeIn" data-wow-delay="0.1s">
   <div class="container py-5">
     <div class="row g-5">
       <div class="col-lg-3 col-md-6">
         <h1 class="text-white mb-4">Xpertise</h1>
         <p>Diam dolor diam ipsum sit. Aliqu diam amet diam et eos. Clita erat ipsum et lorem et sit, sed
stet lorem sit clita</p>
         <div class="d-flex pt-2">
           <a class="btn btn-square btn-outline-primary me-1" href=""><i class="fab fa-twitter"></i></a>
           <a class="btn btn-square btn-outline-primary me-1" href=""><i class="fab fa-facebook-
f"></i></a>
           <a class="btn btn-square btn-outline-primary me-1" href=""><i class="fab fa-
youtube"></i></a>
           <a class="btn btn-square btn-outline-primary me-0" href=""><i class="fab fa-linkedin-
in"></i></a>
         </div>
       </div>
       <div class="col-lg-3 col-md-6">
         <h4 class="text-light mb-4">Address</h4>
         <p><i class="fa fa-map-marker-alt me-3"></i>National Highway 6, Banitabla, Uluberia, Howrah,
West Bengal 711316</p>
         <p><i class="fa fa-phone-alt me-3"></i>+91 6295727627</p>
         <p><i class="fa fa-envelope me-3"></i>abc2024@gmail.com</p>
       </div>
       <div class="col-lg-3 col-md-6">
         <h4 class="text-light mb-4">Important Links</h4>
         <a class="btn btn-link" href="">About Us</a>
```

```html
            <a class="btn btn-link" href="">Contact Us</a>
            <a class="btn btn-link" href="">Our Services</a>
            <a class="btn btn-link" href="">Terms & Condition</a>
            <a class="btn btn-link" href="">Support</a>
        </div>
        <div class="col-lg-3 col-md-6">
            <h4 class="text-light mb-4">Newsletter</h4>
            <p>Dolor amet sit justo amet elitr clita ipsum elitr est.</p>
            <div class="position-relative mx-auto" style="max-width: 400px;">
                <input class="form-control bg-transparent w-100 py-3 ps-4 pe-5" type="text"
placeholder="Your email">
                <button type="button" class="btn btn-primary py-2 position-absolute top-0 end-0 mt-2 me-
2">SignUp</button>
            </div>
        </div>
    </div>
  </div>
  <div class="container-fluid copyright">
    <div class="container">
      <div class="row">
        <div class="col-md-6 text-center text-md-start mb-3 mb-md-0">
            &copy; <a href="#">Xpertise</a>, All CopyRight Reserved.
        </div>

      </div>
    </div>
  </div>
</body>
</html>
```

Source Code for Registration Page

```html
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Xpertise</title>
   <link rel="stylesheet" href="https://unpkg.com/bootstrap@5.3.2/dist/css/bootstrap.min.css">
<link rel="stylesheet" href="https://unpkg.com/bs-brain@2.0.3/components/registrations/registration-7/assets/css/registration-7.css">
<link rel="stylesheet" href="https://unpkg.com/bootstrap@5.3.2/dist/css/bootstrap.min.css">
<link rel="stylesheet" href="https://unpkg.com/bs-brain@2.0.3/components/logins/login-7/assets/css/login-7.css">

<!-- Favicon -->
<link href="img/favicon.ico" rel="icon">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/remixicon/3.5.0/remixicon.css" crossorigin="">
<link rel="stylesheet" href="css/swiper-bundle.min.css">
<!-- CSS -->
<link rel="stylesheet" href="css/style.css">

<!-- Google Web Fonts -->
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@400;500&family=Poppins:wght@600;700&display=swap" rel="stylesheet">

<!-- Icon Font Stylesheet -->
<link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.10.0/css/all.min.css" rel="stylesheet">
<link href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.4.1/font/bootstrap-icons.css" rel="stylesheet">

<!-- Libraries Stylesheet -->
<link href="lib/animate/animate.min.css" rel="stylesheet">
<link href="lib/owlcarousel/assets/owl.carousel.min.css" rel="stylesheet">

<!-- Customized Bootstrap Stylesheet -->
<link href="css/bootstrap.min.css" rel="stylesheet">
<!-- <link rel="stylesheet" href="css/bootstrap.min.css"> -->
<!-- Template Stylesheet -->
<link href="css/style.css" rel="stylesheet">
<link rel="stylesheet" href="style1.css">
</head>
<body>
<!-- Registration 7 - Bootstrap Brain Component -->
<!-- Navbar Start -->
```

```html
<nav class="navbar navbar-expand-lg bg-white navbar-light sticky-top px-4 px-lg-5 py-lg-0">
  <a href="index.html" class="navbar-brand d-flex align-items-center">
    <h1 class="m-0"><img src="">Xpertise</h1>
  </a>
  <button type="button" class="navbar-toggler" data-bs-toggle="collapse" data-bs-target="#navbarCollapse">
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarCollapse">
    <div class="navbar-nav ms-auto py-3 py-lg-0">
      <a href="index.html" class="nav-item nav-link active">Home</a>
      <a href="about.html" class="nav-item nav-link ">About Us</a>
      <div class="nav-item dropdown">
        <a href="#" class="nav-link dropdown-toggle" data-bs-toggle="dropdown">Services</a>
        <div class="dropdown-menu bg-light m-0">
          <a href="plumbing.html" class="dropdown-item">Plumbing</a>
          <a href="electrical.html" class="dropdown-item">Electrical</a>
          <a href="electronics.html" class="dropdown-item">Electronics</a>
          <a href="carpentry.html" class="dropdown-item">Carpentry</a>
          <a href="gas stove.html" class="dropdown-item">Gas Stove Service</a>
        </div>
      </div>
      <a href="contact.html" class="nav-item nav-link">Contact Us</a>
    </div>
  </div>
  <div class="nav-item dropdown">
    <a href="" class="nav-link dropdown-toggle"  id="cit"data-bs-toggle="dropdown"><i class="ri-user-3-line" > </i>ACCOUNT</a>
    <div class="dropdown-menu bg-light m-0">
      <a href="register.html" class="nav-link dropdown-toggle"  data-bs-toggle="dropdown"><i class="ri-user-3-line" > </i>Register/Login</a>

    </div>
  </div>
</nav>
 <!-- Navbar End -->

<section class="bg-light p-3 p-md-4 p-xl-5">
  <div class="container">
    <div class="row justify-content-center">
      <div class="col-12 col-md-9 col-lg-7 col-xl-6 col-xxl-5">
        <div class="card border border-light-subtle rounded-4">
          <div class="card-body p-3 p-md-4 p-xl-5">
            <div class="row">
              <div class="col-12">
                <div class="mb-5">
                  <!-- <div class="text-center mb-4">
                    <a href="#!">
```

```html
            <img src="./assets/img/bsb-logo.svg" alt="BootstrapBrain Logo" width="175" height="57">
          </a>
        </div> -->
        <h2 class="h4 text-center">Registration</h2>
        <h3 class="fs-6 fw-normal text-secondary text-center m-0">Enter your details to register</h3>
      </div>
    </div>
  </div>
  <form action="#!">
    <div class="row gy-3 overflow-hidden">
      <div class="col-12">
        <div class="form-floating mb-3">
          <input type="text" class="form-control" name="firstName" id="firstName" placeholder="First
Name" required>
          <label for="firstName" class="form-label">First Name</label>
        </div>
      </div>
      <div class="col-12">
        <div class="form-floating mb-3">
          <input type="text" class="form-control" name="lastName" id="lastName" placeholder="First
Name" required>
          <label for="lastName" class="form-label">Last Name</label>
        </div>
      </div>
      <div class="col-12">
        <div class="form-floating mb-3">
          <input type="email" class="form-control" name="email" id="email"
placeholder="name@example.com" required>
          <label for="email" class="form-label">Email</label>
        </div>
      </div>
      <div class="col-12">
        <div class="form-floating mb-3">
          <input type="password" class="form-control" name="password" id="password" value=""
placeholder="Password" required>
          <label for="password" class="form-label">Password</label>
        </div>
      </div>
      <div class="col-12">
        <div class="form-check">
          <input class="form-check-input" type="checkbox" value="" name="iAgree" id="iAgree"
required>
          <label class="form-check-label text-secondary" for="iAgree">
            I agree to the
            <a href="#!" class="link-primary text-decoration-none" >terms and conditions</a>
          </label>
        </div>
      </div>
```

```html
          <div class="col-12">
            <div class="d-grid">
              <button class="btn bsb-btn-xl btn-primary" type="submit" style="background-color:
#FDA12B; outline: none;">Sign up</button>
            </div>
          </div>
        </div>
      </form>
      <div class="row">
        <div class="col-12">
          <hr class="mt-5 mb-4 border-secondary-subtle">
          <p class="m-0 text-secondary text-center">Already have an account? <a href="#!" class="link-
primary text-decoration-none">Sign in</a></p>
        </div>
      </div>
      <div class="row">
        <div class="col-12">
          <p class="mt-5 mb-5">Or continue with</p>
          <div class="d-flex gap-2 gap-sm-3 justify-content-center">
            <a href="#!" class="btn btn-lg btn-outline-danger p-3 lh-1">
              <svg xmlns="http://www.w3.org/2000/svg" width="28" height="28" fill="currentColor"
class="bi bi-google" viewBox="0 0 16 16">
                <path d="M15.545 6.558a9.42 9.42 0 0 1 .139 1.626c0 2.434-.87 4.492-2.384
5.885h.002C11.978 15.292 10.158 16 8 16A8 8 0 1 1 8 0a7.689 7.689 0 0 1 5.352 2.082l-2.284
2.284A4.347 4.347 0 0 0 8 3.166c-2.087 0-3.86 1.408-4.492 3.304a4.792 4.792 0 0 0 0 3.063h.003c.635
1.893 2.405 3.301 4.492 3.301 1.078 0 2.004-.276 2.722-.764h-.003a3.702 3.702 0 0 0 1.599-2.431H8v-
3.08h7.545z" />
              </svg>
            </a>
            <a href="#!" class="btn btn-lg btn-outline-primary p-3 lh-1">
              <svg xmlns="http://www.w3.org/2000/svg" width="28" height="28" fill="currentColor"
class="bi bi-facebook" viewBox="0 0 16 16">
                <path d="M16 8.049c0-4.446-3.582-8.05-8-8.05C3.58 0-.002 3.603-.002 8.05c0 4.017 2.926
7.347 6.75 7.951v-5.625h-2.03V8.05H6.75V6.275c0-2.017 1.195-3.131 3.022-3.131.876 0 1.791.157
1.791.157v1.98h-1.009c-.993 0-1.303.621-1.303 1.258v1.51h2.218l-.354 2.326H9.25V16c3.824-.604 6.75-
3.934 6.75-7.951z" />
              </svg>
            </a>
            <a href="#!" class="btn btn-lg btn-outline-info p-3 lh-1">
              <svg xmlns="http://www.w3.org/2000/svg" width="28" height="28" fill="currentColor"
class="bi bi-twitter" viewBox="0 0 16 16">
                <path d="M5.026 15c6.038 0 9.341-5.003 9.341-9.334 0-.14 0-.282-.006-.422A6.685 6.685 0
0 0 16 3.542a6.658 6.658 0 0 1-1.889.518 3.301 3.301 0 0 0 1.447-1.817 6.533 6.533 0 0 1-
2.087.793A3.286 3.286 0 0 0 7.875 6.03a9.325 9.325 0 0 1-6.767-3.429 3.289 3.289 0 0 0 1.018
4.382A3.323 3.323 0 0 1 .64 6.575v.045a3.288 3.288 0 0 0 2.632 3.218 3.203 3.203 0 0 1-.865.115 3.23
3.23 0 0 1-.614-.057 3.283 3.283 0 0 0 3.067 2.277A6.588 6.588 0 0 1 .78 13.58a6.32 6.32 0 0 1-.78-
.045A9.344 9.344 0 0 0 5.026 15z" />
              </svg>
```

```
          </a>
          <a href="#!" class="btn btn-lg btn-outline-dark p-3 lh-1">
           <svg xmlns="http://www.w3.org/2000/svg" width="28" height="28" fill="currentColor"
class="bi bi-apple" viewBox="0 0 16 16">
              <path d="M11.182.008C11.148-.03 9.923.023 8.857 1.18c-1.066 1.156-.902 2.482-.878
2.516.024.034 1.52.087 2.475-1.258.955-1.345.762-2.391.728-2.43Zm3.314 11.733c-.048-.096-2.325-
1.234-2.113-3.422.212-2.189 1.675-2.789 1.698-2.854.023-.065-.597-.79-1.254-1.157a3.692 3.692 0 0 0-
1.563-.434c-.108-.003-.483-.095-1.254.116-.508.139-1.653.589-1.968.607-.316.018-1.256-.522-2.267-
.665-.647-.125-1.333.131-1.824.328-.49.196-1.422.754-2.074 2.237-.652 1.482-.311 3.83-.067
4.56.244.729.625 1.924 1.273 2.796.576.984 1.34 1.667 1.659 1.899.319.232 1.219.386 1.843.067.502-
.308 1.408-.485 1.766-.472.357.013 1.061.154 1.782.539.571.197 1.111.115 1.652-.105.541-.221 1.324-
1.059 2.238-2.758.347-.79.505-1.217.473-1.282Z" />
              <path d="M11.182.008C11.148-.03 9.923.023 8.857 1.18c-1.066 1.156-.902 2.482-.878
2.516.024.034 1.52.087 2.475-1.258.955-1.345.762-2.391.728-2.43Zm3.314 11.733c-.048-.096-2.325-
1.234-2.113-3.422.212-2.189 1.675-2.789 1.698-2.854.023-.065-.597-.79-1.254-1.157a3.692 3.692 0 0 0-
1.563-.434c-.108-.003-.483-.095-1.254.116-.508.139-1.653.589-1.968.607-.316.018-1.256-.522-2.267-
.665-.647-.125-1.333.131-1.824.328-.49.196-1.422.754-2.074 2.237-.652 1.482-.311 3.83-.067
4.56.244.729.625 1.924 1.273 2.796.576.984 1.34 1.667 1.659 1.899.319.232 1.219.386 1.843.067.502-
.308 1.408-.485 1.766-.472.357.013 1.061.154 1.782.539.571.197 1.111.115 1.652-.105.541-.221 1.324-
1.059 2.238-2.758.347-.79.505-1.217.473-1.282Z" />
           </svg>
          </a>
         </div>
        </div>
       </div>
      </div>
     </div>
    </div>
   </div>
  </section>

  <div class="container-fluid bg-dark footer mt-5 pt-5 wow fadeIn" data-wow-delay="0.1s">
    <div class="container py-5">
      <div class="row g-5">
        <div class="col-lg-3 col-md-6">
          <h1 class="text-white mb-4">Xpertise</h1>
          <p>Diam dolor diam ipsum sit. Aliqu diam amet diam et eos. Clita erat ipsum et lorem et sit, sed
stet lorem sit clita</p>
          <div class="d-flex pt-2">
            <a class="btn btn-square btn-outline-primary me-1" href=""><i class="fab fa-twitter"></i></a>
            <a class="btn btn-square btn-outline-primary me-1" href=""><i class="fab fa-facebook-
f"></i></a>
            <a class="btn btn-square btn-outline-primary me-1" href=""><i class="fab fa-
youtube"></i></a>
            <a class="btn btn-square btn-outline-primary me-0" href=""><i class="fab fa-linkedin-
in"></i></a>
          </div>
```

```html
            </div>
            <div class="col-lg-3 col-md-6">
                <h4 class="text-light mb-4">Address</h4>
                <p><i class="fa fa-map-marker-alt me-3"></i>National Highway 6, Banitabla, Uluberia, Howrah,
West Bengal 711316</p>
                <p><i class="fa fa-phone-alt me-3"></i>+91 6295727627</p>
                <p><i class="fa fa-envelope me-3"></i>abc2024@gmail.com</p>
            </div>
            <div class="col-lg-3 col-md-6">
                <h4 class="text-light mb-4">Important Links</h4>
                <a class="btn btn-link" href="">About Us</a>
                <a class="btn btn-link" href="">Contact Us</a>
                <a class="btn btn-link" href="">Our Services</a>
                <a class="btn btn-link" href="">Terms & Condition</a>
                <a class="btn btn-link" href="">Support</a>
            </div>
            <div class="col-lg-3 col-md-6">
                <h4 class="text-light mb-4">Newsletter</h4>
                <p>Dolor amet sit justo amet elitr clita ipsum elitr est.</p>
                <div class="position-relative mx-auto" style="max-width: 400px;">
                    <input class="form-control bg-transparent w-100 py-3 ps-4 pe-5" type="text"
placeholder="Your email">
                    <button type="button" class="btn btn-primary py-2 position-absolute top-0 end-0 mt-2 me-
2">SignUp</button>
                </div>
            </div>
        </div>
    </div>
    <div class="container-fluid copyright">
        <div class="container">
            <div class="row">
                <div class="col-md-6 text-center text-md-start mb-3 mb-md-0">
                    &copy; <a href="#">Xpertise</a>, All CopyRight Reserved.
                </div>

            </div>
        </div>
    </div>
<!-- JavaScript Libraries -->
<script src="https://code.jquery.com/jquery-3.4.1.min.js"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0/dist/js/bootstrap.bundle.min.js"></script>
<script src="lib/wow/wow.min.js"></script>
<script src="lib/easing/easing.min.js"></script>
<script src="lib/waypoints/waypoints.min.js"></script>
<script src="lib/owlcarousel/owl.carousel.min.js"></script>

<!-- Template Javascript -->
<script src="js/main.js"></script>
```

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```html
<!-- Swiper JS -->
<script src="js/swiper-bundle.min.js"></script>
<script src="js/swiper-bundle.min.js"></script>
<!-- JavaScript -->
<script src="js/script.js"></script>

</body>
</html>
```

PHP Codes:

PHP Code for Login Page

```php
<?php
session_start();
require("connect.php");
if(isset($_POST["login"]))
{
    $email=$_POST['email'];
    $query="SELECT * FROM `user` WHERE `email`='$email'";
    $result=mysqli_query($conn, $query);
    if($result)
    {
      if(mysqli_num_rows($result)==1)
      {
          $result_fetch=mysqli_fetch_assoc($result);
          if($result_fetch['is_verified']==1)
          {
            if($_POST['password'] == $result_fetch['password'])
            {
              $_SESSION['loged_in']=true;
              $_SESSION['f_name']=$result_fetch['firstname'];
              $_SESSION['l_name']=$result_fetch['lastname'];
              $_SESSION['user_type']=$result_fetch['usertype'];
              $_SESSION['user_id']=$result_fetch['id'];
              header('location: ../index.php');
            }
            else{
              echo "<script>alert('incorrect password');
              window.location.href='../login.php';
              </script>
              ";
            }
          }
          else{
            echo "<script>alert('At first verify your email then try to login');
              window.location.href='../login.php';
              </script>
              ";
          }
      }
      else{
        echo "<script>alert('Invalid Email Or Password');
        window.location.href='../login.php';
        </script>
        ";
      }
```

```php
    }
    else{
      echo "<script>alert('Somthig went Wrong!!');
      window.location.href='.login.php';
      </script>
      ";
    }
  }
?>
```

PHP Code for Registration Page

```php
<?php
require("connect.php") ;
use PHPMailer\PHPMailer\PHPMailer;
use PHPMailer\PHPMailer\SMTP;
use PHPMailer\PHPMailer\Exception;
function sendMail($email,$v_code)
{
   require ("../phpMailer/PHPMailer.php");
   require ("../phpMailer/SMTP.php");
   require ("../phpMailer/Exception.php");
   $mail = new PHPMailer(true);
   try {
     //Server settings
     $mail->isSMTP();                    //Send using SMTP
     $mail->Host     = 'smtp.gmail.com';           //Set the SMTP server to send through
     $mail->SMTPAuth   = true;                //Enable SMTP authentication
     $mail->Username   = 'teamthroughtplus@gmail.com';         //SMTP username
     $mail->Password   = 'cvqpqdqutpvtjdmh';              //SMTP password
     $mail->SMTPSecure = PHPMailer::ENCRYPTION_STARTTLS;       //Enable implicit TLS encryption
     $mail->Port     = 587;                 //TCP port to connect to; use 587 if you have set
`SMTPSecure = PHPMailer::ENCRYPTION_STARTTLS`
     //Recipients
     $mail->setFrom('teamthroughtplus@gmail.com', 'Xpertise');
     $mail->addAddress($email);    //Add a recipient
     //Content
     $mail->isHTML(true);                  //Set email format to HTML
     $mail->Subject = 'Email Verification From Xpertise';
     $mail->Body    = "Thanks For Registration!
     click the link below to verfy the email address <b><a
href='http://localhost/expertise/control/verify.php?email=$email&v_code=$v_code'> verify </a></b>";
     $mail->send();
     return true;
   } catch (Exception $e) {
     return false;
   }
}
if(isset($_POST["sign_up"]))
{
   $firstname=strip_tags($_POST['firstName']);
   $lastname=strip_tags($_POST['lastName']);
   $email=strip_tags($_POST['email']);
   $con_pass=strip_tags($_POST['con_password']);
   if($con_pass==$_POST['password'])
   {
   $password=$_POST['password'];
   $v_code=bin2hex(random_bytes(16));
   $user_data_exist="SELECT * FROM `user` WHERE `email`='$_POST[email]'";
```

```php
    $result= mysqli_query($conn, $user_data_exist);
    if($result)
    {
      if(mysqli_num_rows($result)> 0)
       {
            $result_fetch=mysqli_fetch_assoc($result);
            if($result_fetch['email']== $_POST['email'])
            {
               echo("<script>
               alert('This email already exist')
               window.location.href='../register.php';
            </script>");
            }
       }
      else{
        $query="INSERT INTO `user` (`firstname`, `lastname`, `email`, `password`,`verification_code`,
`is_verified`) VALUES ('$firstname', '$lastname', '$email', '$password','$v_code','0')";
            if(mysqli_query($conn, $query) && sendMail($email,$v_code))
            { ?>
             <script>
                alert('Verification Link Send Your registered Email');
                window.location.href='../index.php';
             </script>
             <?php
            }
            else{
             echo("<script>
             alert('somthing went wrong!!')
             window.location.href='../register.php';
             </script>");
            }
       }
    }
 else{
   echo("<script>
   alert('sarver not responding')
   window.location.href='../index.php';
   </script>");
 }
}
else{
   echo("<script>
   alert('Password missmatch!')
   window.location.href='../register.php';
   </script>");
}
}
?>
```

Code for ADMIN Login Page

```html
<!doctype html>
<html lang="en">
<head>
        <!-- Required meta tags -->
        <meta charset="utf-8">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <!--plugins-->
        <link href="assets/plugins/simplebar/css/simplebar.css" rel="stylesheet" />
        <link href="assets/plugins/perfect-scrollbar/css/perfect-scrollbar.css" rel="stylesheet" />
        <link href="assets/plugins/metismenu/css/metisMenu.min.css" rel="stylesheet" />
        <!-- loader-->
        <link href="assets/css/pace.min.css" rel="stylesheet" />
        <script src="assets/js/pace.min.js"></script>
        <!-- Bootstrap CSS -->
        <link href="assets/css/bootstrap.min.css" rel="stylesheet">
        <link href="assets/css/bootstrap-extended.css" rel="stylesheet">
        <link href="https://fonts.googleapis.com/css2?family=Roboto:wght@400;500&display=swap" rel="stylesheet">
        <link href="assets/css/app.css" rel="stylesheet">
        <link href="assets/css/icons.css" rel="stylesheet">
        <title>Admin Panel - Login</title>
</head>
<?php
session_start();
include("../control/connect.php");
$_SESSION['logout_alert'] = "";
if(isset($_POST['login'])){
        $userid=$_POST['userid'];
        $password=$_POST['password'];
        $sql="SELECT * FROM admin Where userid='$userid' and password='$password'";
   $run=mysqli_query($conn,$sql);
        $num=mysqli_num_rows($run);
        if($num==1) {
        $data=mysqli_fetch_assoc($run);
        $userid=$data['userid'];
        session_start();
        $_SESSION['userid']=$userid;
        $_SESSION['password']=$password;
        header('location:index.php');
        }
        else {

                $_SESSION['logout_alert'] = "Something went wrong!";
                return header('location:login.php');
        }
}
```

```php
?>
<body class="bg-theme bg-theme2">
        <!--wrapper-->
        <div class="wrapper">
                <div class="section-authentication-signin d-flex align-items-center justify-content-center
my-5 my-lg-0">
                        <div class="container">
                                <div class="row row-cols-1 row-cols-lg-2 row-cols-xl-3">
                                        <div class="col mx-auto">
                                                <div class="card mb-0">
                                                        <div class="card-body">
                                                                <div class="p-4">
                                                                        <?php

                        if(isset($_SESSION['logout_alert']) && $_SESSION['logout_alert'] != '' ){
                        echo '<div class="alert alert-danger mt-3">'.$_SESSION['logout_alert'] .'</div>';
                        $_SESSION['logout_alert'] = '';
                        }unset($_SESSION['logout_alert']);
                        ?>
                                                                        <div class="text-center mb-4">
                                                                                <p class="mb-0">Please log in
to your account</p>
                                                                        </div>
                                                                        <div class="form-body">
                                                                                <form class="row g-3"
method="post" >
                                                                                        <div class="col-12">
                                                                                                <label
for="inputEmailAddress" class="form-label">User Id</label>
                                                                                                <input
type="text" class="form-control" name="userid" id="inputEmailAddress" placeholder="Enter Userid"
required>
                                                                                        </div>
                                                                                        <div class="col-12">
                                                                                                <label
for="inputChoosePassword" class="form-label">Password</label>
                                                                                                <div
class="input-group" id="show_hide_password">
                                                                                                        <input
type="password" name="password" class="form-control border-end-0" id="inputChoosePassword"
required placeholder="Enter Password">
                                                                                                </div>
                                                                                        </div>
                                                                                        <div class="col-md-6">
                                                                                                <div class="form-
check form-switch">
                                                                                                        <input
class="form-check-input" type="checkbox" id="flexSwitchCheckChecked">
```

```html
                                                        <label
class="form-check-label" for="flexSwitchCheckChecked">Remember Me</label>
                                                    </div>
                                                </div>
                                                <div class="col-12">
                                                    <div class="d-
grid">
                                                        <button
type="submit" name="login" class="btn btn-light">Sign in</button>
                                                    </div>
                                                </div>
                                            </form>
                                        </div>

                                    </div>
                                </div>
                            </div>
                        </div>
                    </div>
                    <!--end row-->
                </div>
            </div>
        </div>
        <!--end wrapper-->
        <!-- Bootstrap JS -->
        <script src="assets/js/bootstrap.bundle.min.js"></script>
        <!--plugins-->
        <script src="assets/js/jquery.min.js"></script>
</body>
</html>
```

12. <u>Future Scope</u>

This project can be used for hiring any sort of repairing services. This can be made business-oriented like for example- "Uber", taking only a minimum percentage of charge from the technicians after they get paid from the clients.

This project can become a job providing site for any sort of technician experts in any field. Technicians themselves can register themselves here if they don't have many jobs or income.

This project can be made available to a large area over time. This will help many people who needs those repairing services and job seeking technicians as well, which in case increase a large number of employments.

At present there are only five services available. These services can be increased: construction, painting, car mechanics, laundry, and many more, i.e., any maintenance service can be added into the system.

13. <u>Limitations</u>

This project "e-Home Repair and Maintenance System" is a centralized system. It is only available through the internet. This Project run only in the limited area: Uluberia, Howrah. There are only a few repair or maintenance services provided. There is no such process of to know whether a particular technician is available on a particular day. Booking of the technicians to the end is by connecting with them directly by the users through redirected from the website to the technician's WhatsApp account.

14. <u>Conclusions</u>

The proposed system is a website called "an online home maintenance", the project is based on covering the gap between the customer and service provider, helping people to live their life with more luxury and easier steps. The drawbacks of the existing system are that people new to any area has to ask lots of people or their landlords or the respective shopkeepers to get the phone numbers of addresses of this experts or technician to avail their services. Sometimes this results in delay and causing inconvenience or damages. Also, there are few online repairing services providers. But they don't have this many services available.

The proposed system overcomes the above stated drawbacks. This project is providing 6 some essential repairing and maintenance service providers in just a few steps. And this not taking any extra charges or fixed charges. The clients get to pay the technicians accordingly to their work separately. This project is also providing emergency contacts in case some risks or accidents. This project starts by reviewing the literature on similar ideas from sites and applications and studying feasibility study and statistical. Then the requirements of the service provider and customer have been described.

15.References

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- www.geeksforgeeks.org

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- https://www.researchgate.net