

A PROJECT REPORT ON
“AllHomeEase”
(ONLINE HOME SERVICE SYSTEM)
Submitted in partial fulfillment for the award of
Post Graduate Diploma in Advance Computing
(PG-DAC) from
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Authorized Training Centre



SUBMITTED BY:

Mr. Snehesh Mundale	(230940320114)
Mr. Yogesh Sharad Patil	(230940520108)
Mr. Bhushan Subhash Gaikwad	(230940320035)
Mr . Abhishek Sanjay Thote	(230940520001)
Ms . Shubhangini Vasantrao Sonawane	(230940520084)

UNDER THE GUIDENCE OF:

Mr .Vipul Tembulwar

Faculty Member

CERTIFICATE

This is to certify that the project report titled '**AllHomeEase**' is done by **Mr. Snehesh Mundale, Mr.Yogesh Patil, Mr. Bhushan Gaikwad , Mr. Abhishek Thote and Ms. Shubhangini Sonwane** have submitted in partial fulfilment of the requirement for the C-DAC Mumbai, DAC course in C-DAC , Mumbai in the batch of Sept 2023.

PROJECT GUIDE

COURSE CO-ORDINATOR

Date- / / 2024

Abstract

An online home service system is a platform that connects customers with service providers for various home maintenance and repair needs. The system allows customers to easily search and book services, such as cleaning, handyman tasks, and appliance, repair, through a website or mobile application. Service providers can also use the system to manage their schedule and communicate with customers. The system may also include features such as rating and review systems, and online payment options. This system can help to streamline the home service industry, making it more convenient for customers to find and book services, and for service providers to manage their business.

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1. INTRODUCTION TO PROJECT

The web based “AllHomeEase” (Online Home Service System) project is an attempt to stimulate the basic concepts of Service Booking system. The system enables the customer to do the things such as getting available services for Home for ordering services in their cities on a specified date, choose a service based on the details and booking of service in available service section.

The system provides you Quick Accessible facility that provides you details about services without login. But if user want to book/order service then it must require login into your account.

The system allows the Home Services customer to update their details of credentials as well as personal details in login session. The system also shows personal details too with order status with assigned employee details along with phoneno. and name of employee, where user can see status of booked service by clicking on its own profile avatar followed by order tab etc.

Here we provided quick booking facility which displays list of available services and allows customer to choose a particular home services. Then the system checks for the availability of service on the provider/currently on admin side.

To book a service the system asks the customer to enter his details such as first name, last name, email, password, address, city, state and contact number in order to sign up. Then it checks the credentials added by customer in order to sign-in and book the available services and update the profile of user database.

If User/Customer forgot his/her password in order to do that we have implemented email verification system where temporary password will be sent to user's email address.

2. REQUIREMENT :

2.1 FUNCTIONAL REQUIREMENTS

2.1 User Account:

The customer, who will henceforth be called the ‘user’, will be presented with 2 choices by the service booking system, as the first step in the interaction between them. A user can choose one of these and his choice would be governed by whether he is a guest or a registered user and whether he wants to check the availability of services or also book/buy/order them. The terms ‘registered user’ and ‘guest’ are described below.

A user who has access the services earlier would have been given a user id/email and a password. This ‘personal information’ would be henceforth referred to as ‘profile’. Such a user with a profile in DB-user shall be called a ‘USER’ by default. A registered user will be able to check the availability of services as well as book/order a service by logging into the system.

A new user, on the other hand, would either have to

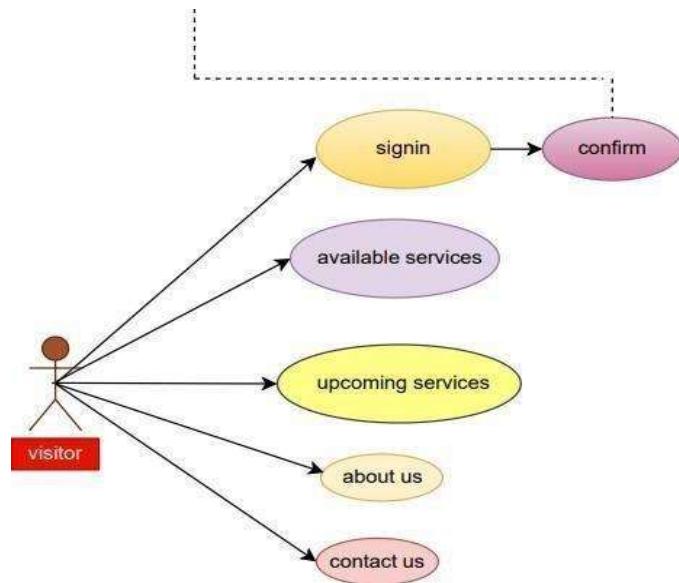
- a) Register/signup himself with the system by providing personal information or
- b) log into the system as a guest.

In case of ‘a’, the new user becomes a registered user.

In case of ‘b’, the new user would remain a guest.

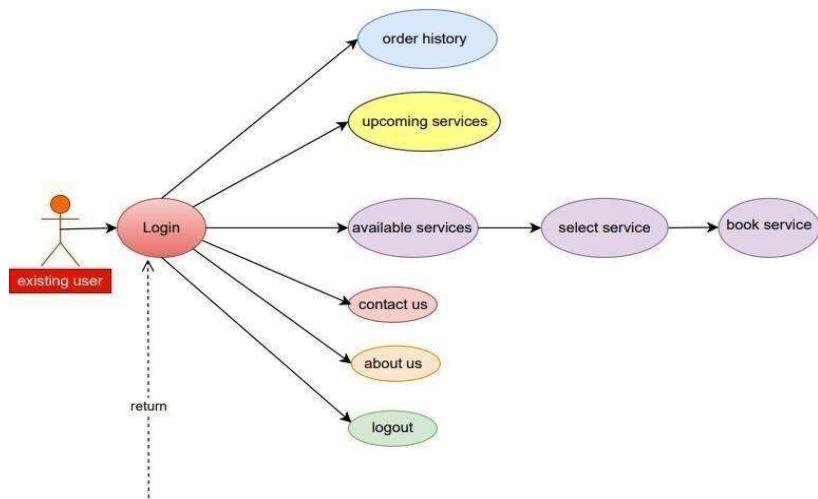
A guest can only check the availability of services and cannot book or order services. But a registered user can also act as a guest if he only wants to check the availability of services.

‘Availability of services always refers to viewing the Home related services, the price of services and any discount offers. The system shall present the user with an option to exit from the system at any time during the following processes.



2.2 Registration and creation of user profile:

The system shall require a user to register, in order to carry out any booking of services with it except for checking the availability of services. It will ask the user for the following information – a user id, a password, first name, last name, address, house No, Street, Pin code, date of birth, phone number, email address, preferred password credentials. The system will automatically create a ‘USER’ field/role and initialize it to zero in the user’s profile.



2.3 Quick Services availability after Sign in:

Here we provided **Quick Services availability** facility for any user to see service schedule with sign in into account. This will provide user an option for ordering services and comparing their prices of all services which are required for home.

After logging in a user (a registered user), the system shall request him to enter the following details – email and Password.

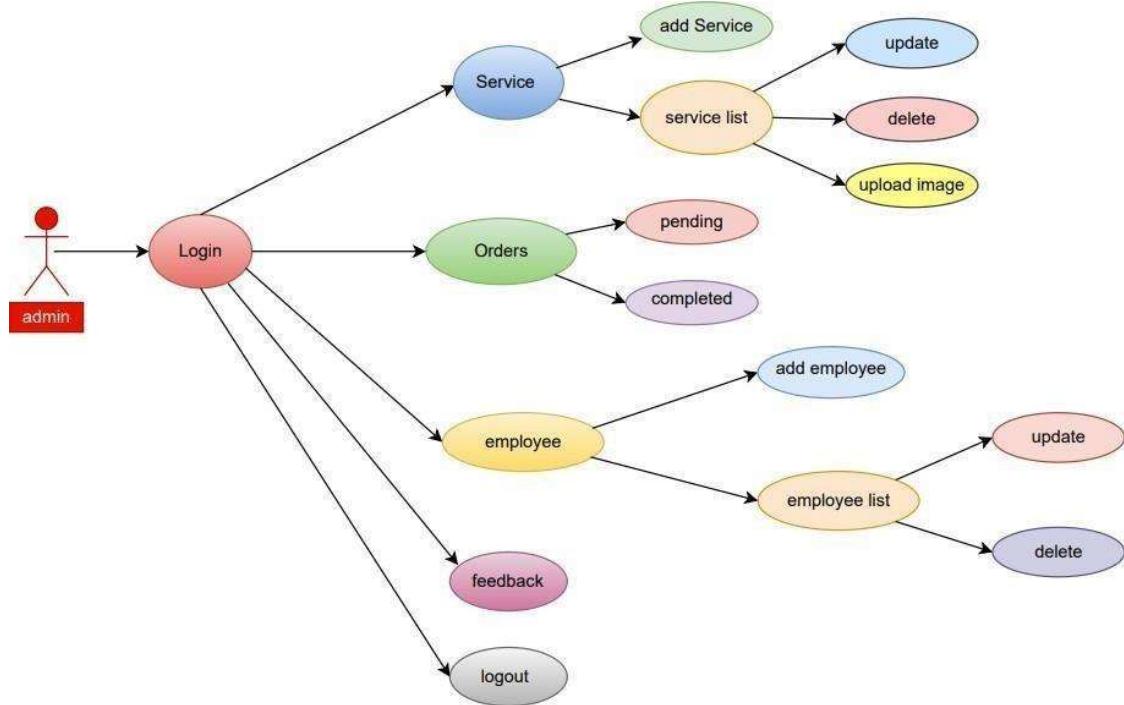
After the email and password are inserted into sign in window USER will able to access the all-available services along with, he/she can book the service. When ever user order some services will get a confirmation message via valid email address that your service booked/ordered.

USER will able to retrieve password may he forgotten via our new services like temporary password authentication through email address user will receive an email containing an autogenerated password in it he/she able to update the password later on after successfully log into account.

The system also able to show User's details by clicking on its own profile avatar or giving them freedom to **modify/update** the Details of him/her.

The system queries the USER database ‘user_tb’ to check which of the right credentials on the available services in order to book the services. The system displays the results in a suitable form with the following information depicted – for each service name, service id.

There can be several services which are served from different employee between user and all of them will be listed for the particular service name.



2.4 Admin:

After having taken the user through the step 2.2, Checking Availability, the system will now ask the user if he wishes to book/order the services. If yes, and

- if the user has been a guest, he will have to first register and become a registered user and then sign in onto the system.
- If the user is already a registered user, and if he has logged on already, he can book/order the services, but if he has been acting as a guest, he will have to log on or else he can browse all the service but cannot book the service in order to do that he has to sign in onto account.

2.4.1 Admin: Add Employee/Add Services/modifying state of Employee/Order checking:

After having taken to the USER role now admin has some privileges in order to add the following services or feature as well as maintaining the whole backend or employee role as one part of the System.

- a) Admin can add employee for specific services added by admin. Where employee details have to be mentioned like first name, last name, hire date, phone number, salary, service name in order to full fill the employee requirement for specific services employee status by default assigned to ‘FREE’. Whenever ‘USER’ sign in into account he had booked an order to change the status of employee from ‘FREE’ to ‘WORKING’ hence by seeing in order section from admin we are assigning a employee serve the service to the customer.
- b) Admin can edit employee details by clicking **edit** button and **delete** the entry of it from list.
- c) Admin can **POST** the service by adding following details like Service title, short description, long description, Service charge, tax, Upload image for specific service also to perform **PUT** (edit) & **DELETE** operation.
- d) Admin can change the Order status/action from Pending to Completed by which serving to that particular customer by completing the service click to action button also Admin can see the **GET** (show) pending as well as show completed order status wise sorting from service booking section.
- e) Admin also introduced new feature like Upcoming services using google API which is future scope.

2.5 View Booking/Order History

The system shall allow a USER to view all information about his previous bookings. After signing/logging him on, it can change his details of it.

Admin should be able to login, add Home Services information, add Employee information, manipulate the order status, checking users, manipulating the employee working status, manipulate the services.

Delete services and see user Information and order according to user Id, service Id.

2.2 NON-FUNCTIONAL REQUIREMENTS

2.2.1 Interface

Go to Appendix B for user interfaces

2.2.2 Performance

- Number of Concurrent Users:

ARS shall be able to handle at least 1000 transactions/inquiries per second

- Booking of Services:

The system is susceptible to any temporary server failure since it uses the strong feature of Struts 2 and Hibernate. Hence the examination will be continued even if the sever gets disconnected in between the examination.

2.2.3 Constraint

ARS shall be able to handle at least 1000 transactions/inquiries per second

2.2.4 Other Requirements:

- **Hardware Interfaces**

The SPMS is expected to function on Intel PIII 900 MHz Processor equivalent or above, 128 MB RAM, 20 GB HDD.

- **Software Interfaces**

The SPMS shall work on MS Windows operating systems family (MS Windows 98, MS Windows NT Workstation, MS Windows 2000, MS Windows XP, MS Windows 7,8,10,11). It configures to work with Mysql database. This System

works on Apache Tomcat server. It uses browser IE 5.0, Google Chrome & above. It uses IIS 5.0 server.

3. DESIGN

3.1 Database Design

The following table structures depict the database design.

Table1: user_tb

Key Type/ Constraint	Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
5	id	bigint	PRI	0 (auto_increment)
0	city	varchar	30	1
0	house_no	varchar	50	1
0	pincode	varchar	20	1
0	state	varchar	50	1
0	street	varchar	60	1
0	dob	datetime	6	0
0	email	varchar	50 (UNI)	1
0	first_name	varchar	30	1
0	last_name	varchar	30	1
0	password	varchar	350	0
0	phone	bigint	UNI	0
0	role	varchar	40	“USER” (0)

Table2: service_tb

5	id	bigint	PRI	0 (auto_increment)
0	long_desc	varchar	400	1

0	service_charge	double	-	0
0	service_name	varchar	50	1
0	service_tax	double	-	0
0	short_desc	varchar	150	1

Table3: orders_tb

5	id	bigint	PRI	0 (auto_increment)
0	bookingtime	datetime	6	0
0	status	varchar	50	1 (pending)
1	employee_id	bigint	MUL	1
2	service_id	bigint	MUL	1
2	user_id	bigint	MUL	1

Table4: service_img

1	img_id	bigint	MUL	1
1	service_id	bigint	PRI	0

Table5: img_tb

3	id	bigint	PRI	0 (auto_increment)
0	imp_size	longblob	-	1
3	Cardnumber	varchar	255	1
0	Pinnumber	varchar	255	1

Table6:employee_tb

5	id	bigint	PRI	0 (auto_increment)
0	dept_name	varchar	50	1
0	emp_status	varchar	20	1
0	first_name	varchar	30	1
0	hire_date	date	-	1
0	last_name	varchar	30	1
0	phone_num	bigint	350	0
0	salary	double	50	0
2	serviceid	bigint	MUL	1

E-R Diagram, Dataflow diagram and Class Diagram:**Go to Appendix A****4. CODING STANDARDS IMPLEMENTED****Naming and Capitalization**

Below summarizes the naming recommendations for identifiers in Pascal casing is used mainly (i.e. capitalize first letter of each word) with camel casing (capitalize each word except for the first one) being used in certain circumstances.

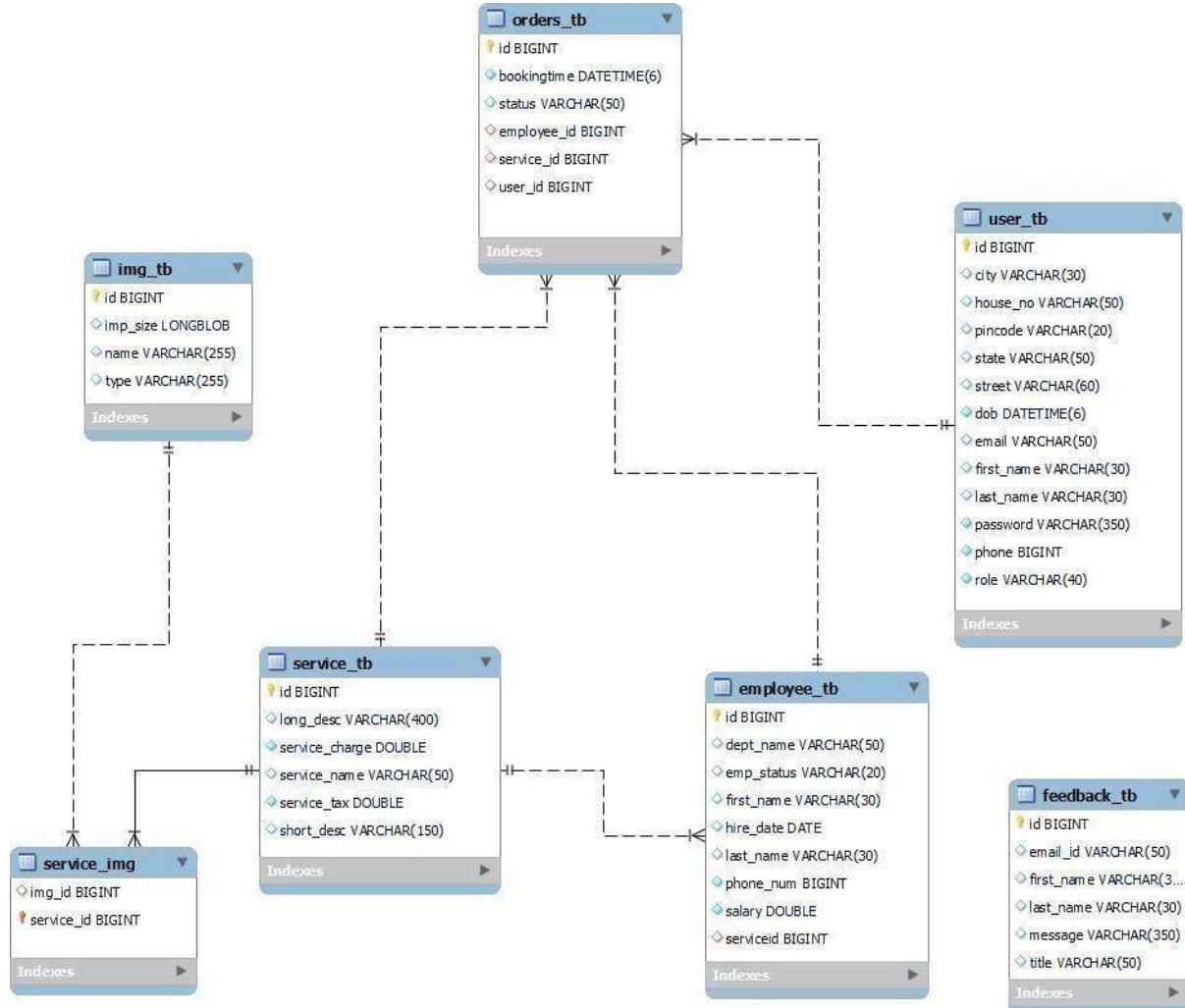
Identifier	Case	Examples	Additional Notes
Class	Pascal	Orders, Images, User	Class names should be based on "objects" or "real things" and should generally be nouns . No ‘_’ signs allowed. Do not use type prefixes like ‘C’ for class.
Method	Camel	placeOrder, showAllOrders	Methods should use verbs or verb phrases.
Parameter	Camel	firstName, lastName deptName	Use descriptive parameter names. Parameter names should be descriptive enough that the name of the parameter and its type can be used to determine its meaning in most scenarios.
Interface	Pascal with "I" prefix	IOrderService	Do not use the ‘_’ sign
Property	Pascal	BaseEntity, RoleEnum	Use a noun or noun phrase to name properties.
Associated private member variable	_camelCase	_name, _type	Use underscore camel casing for the private member variables
Exception Class	Pascal with "Exception" suffix	WebException,	

Comments

- Comment each type, each non-public type member, and each region declaration.
- Use end-line comments only on variable declaration lines. End-line comments are comments that follow code on a single line.
- Separate comments from comment delimiters (apostrophe) or // with one space.
- Begin the comment text with an uppercase letter.
- End the comment with a period.
- Explain the code; do not repeat it.

4.1

Entity Relationship Diagram



4.2

System Design:

Activity Diagram

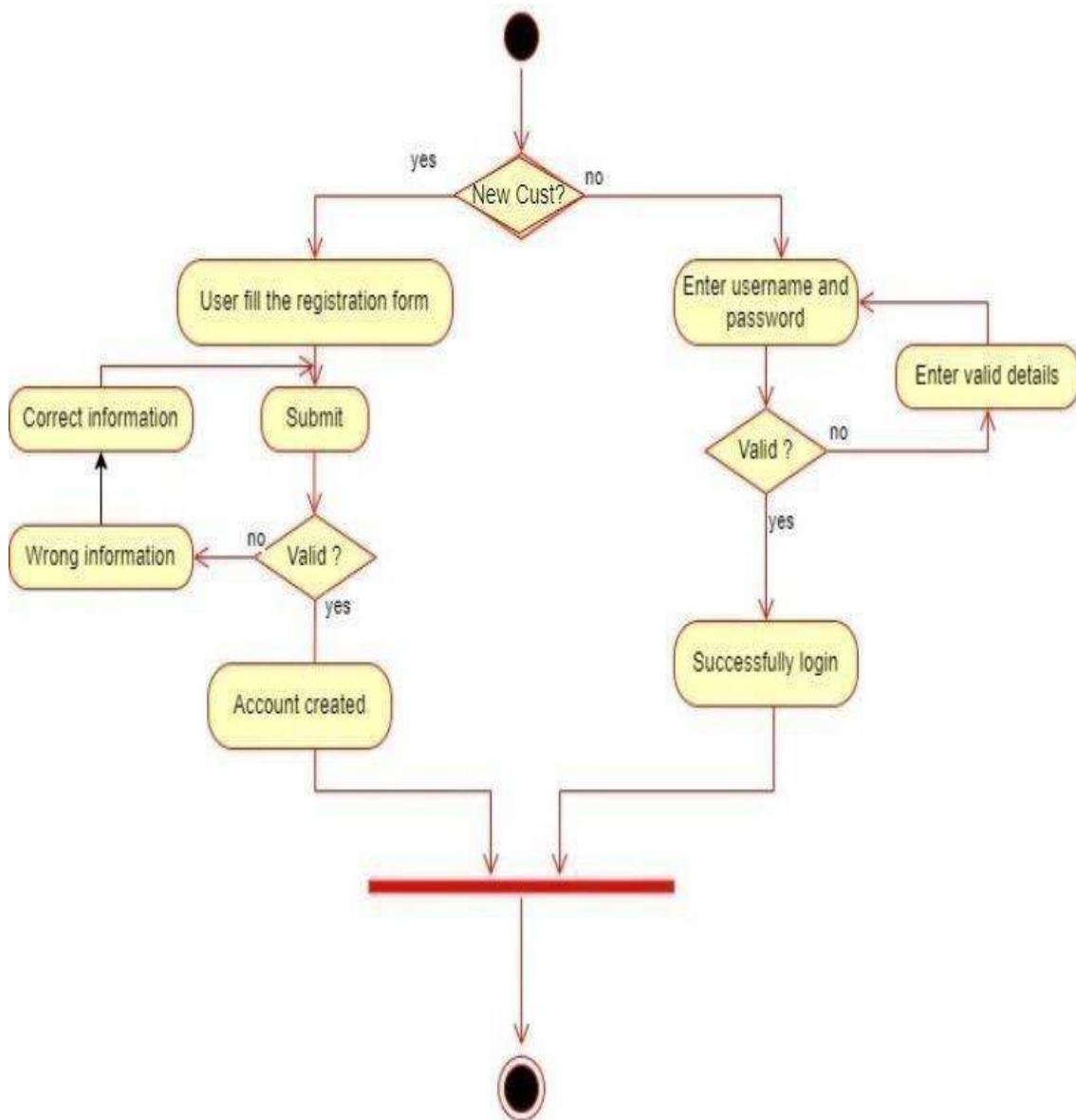


fig.: Login and Registration

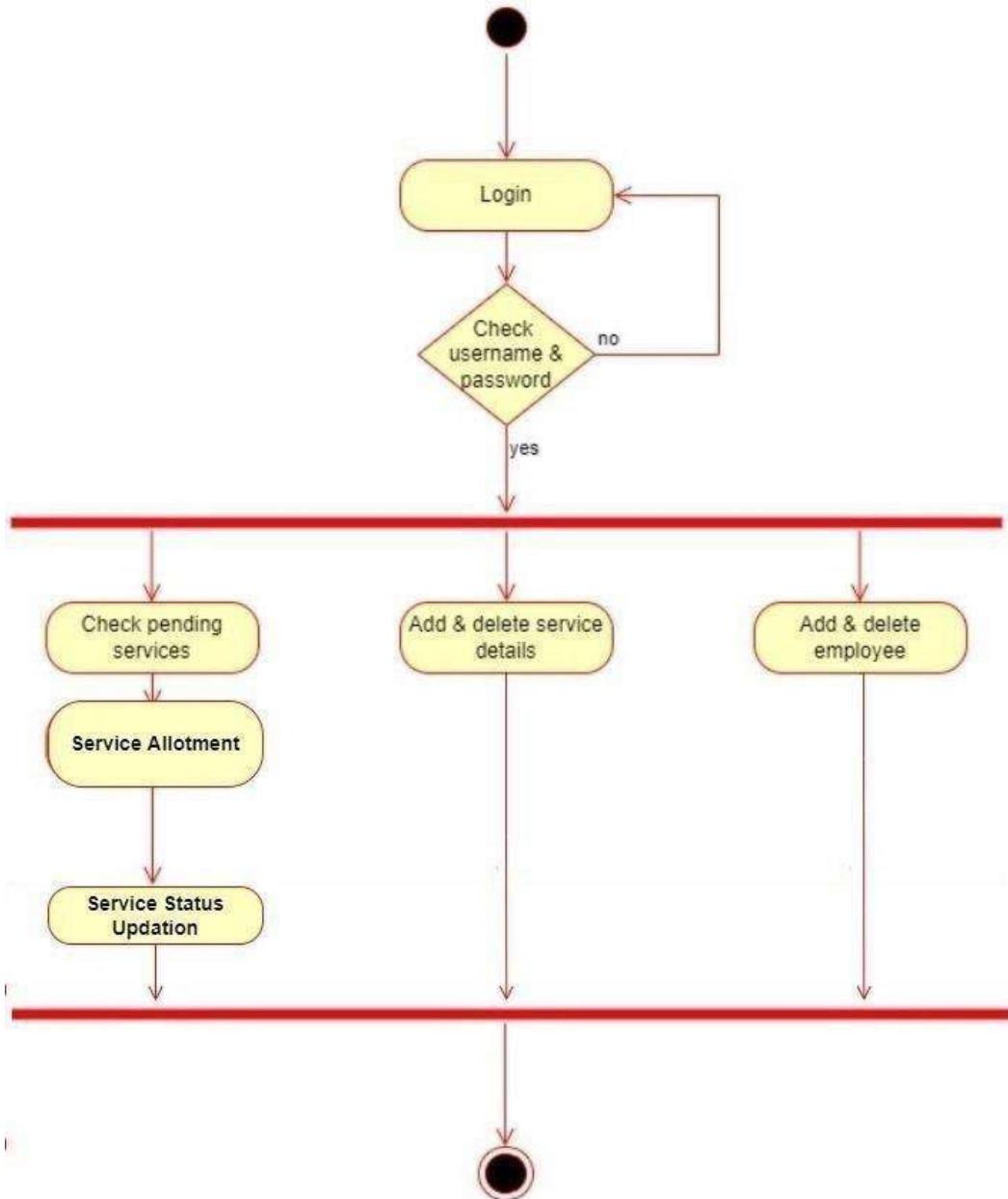


fig.: Admin Activity Diagram

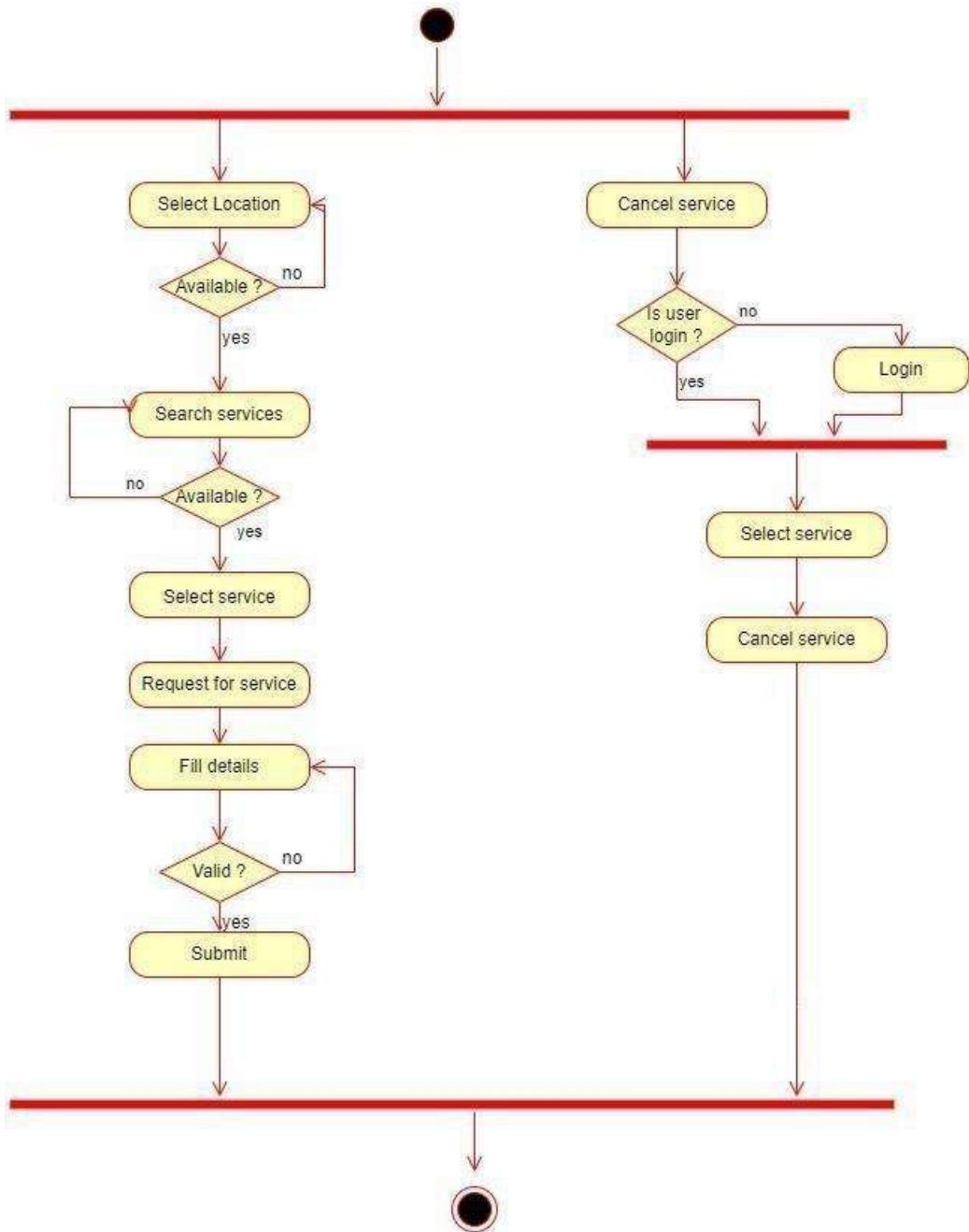
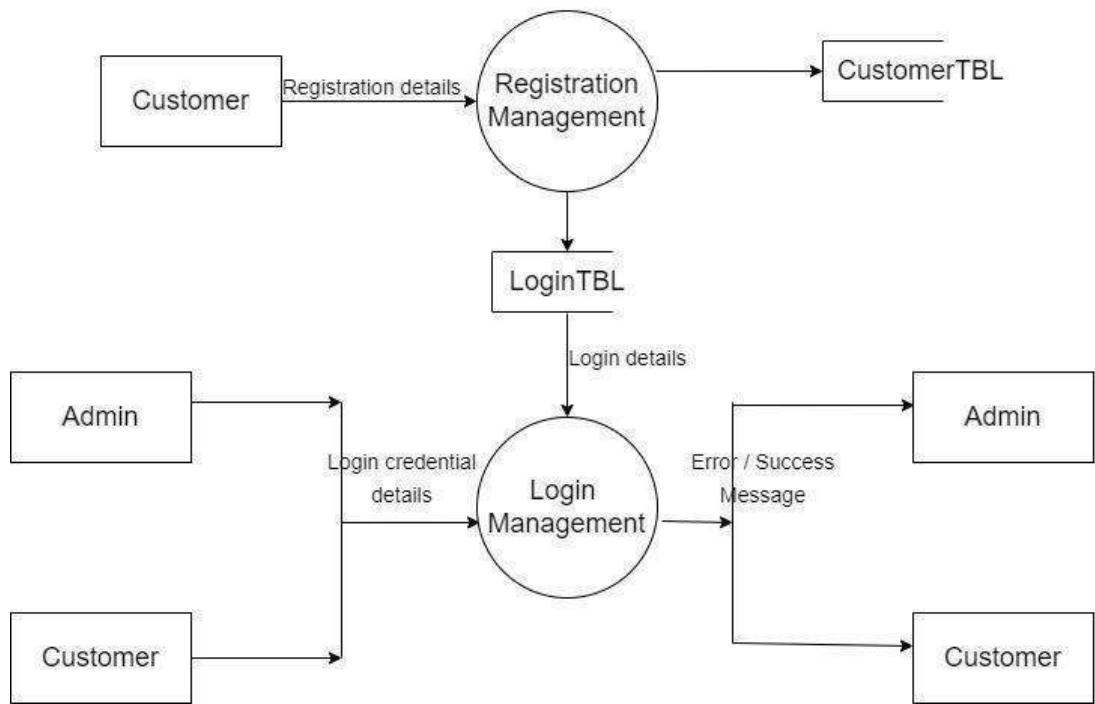


fig.: Activity diagram for Customer

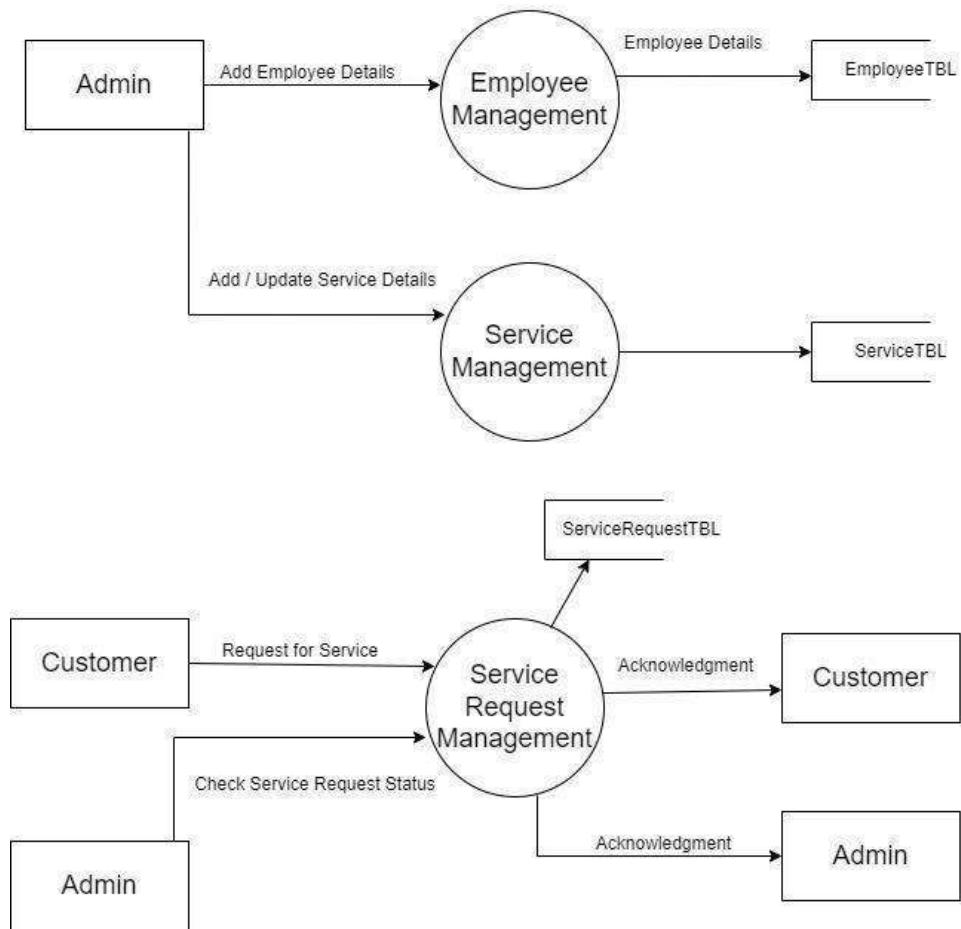
4.3

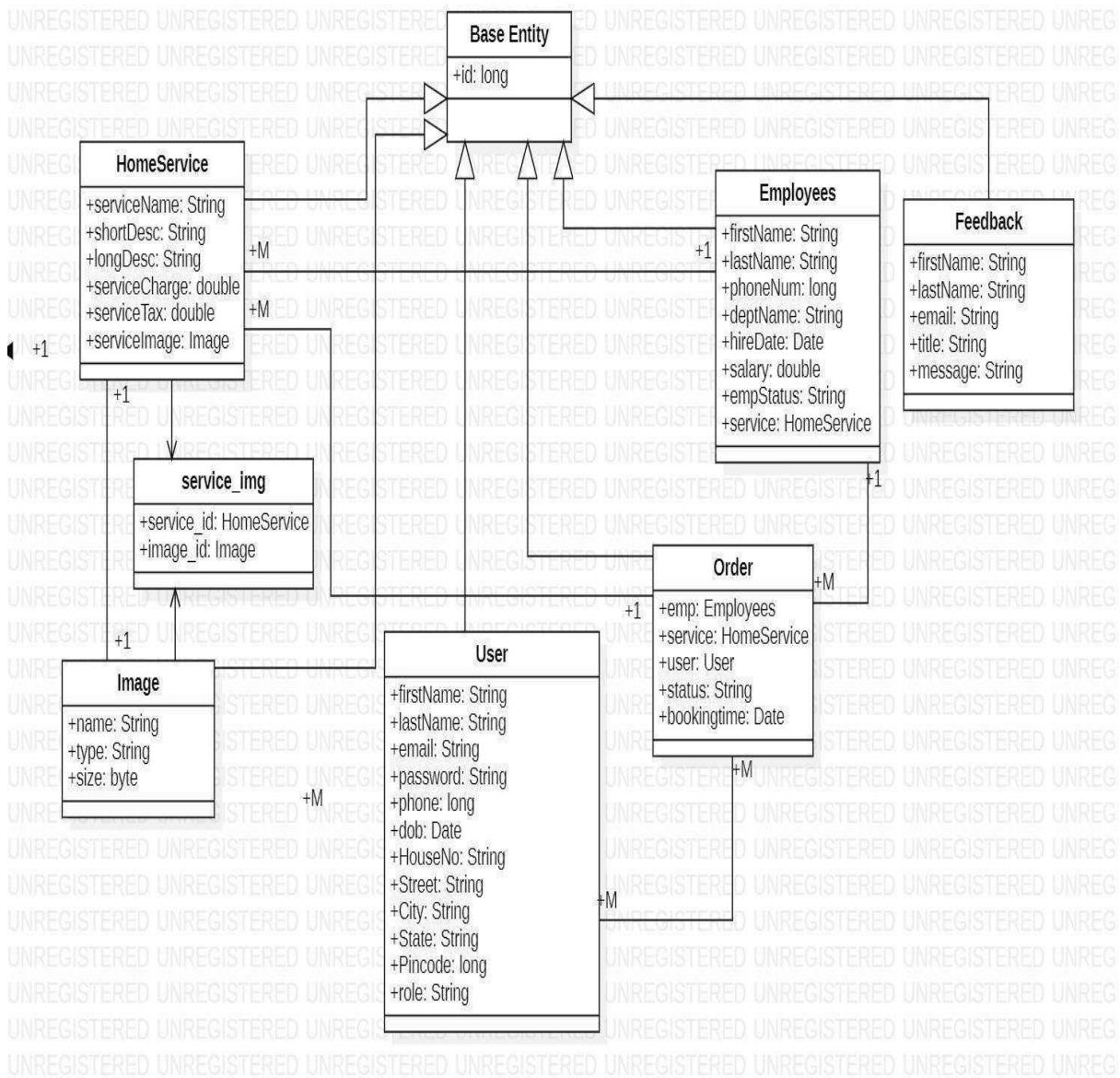
Data Flow Diagram:

First Level DFD for Registration Management & Login Management



First Level DFD for Employee, Service and Request Management





Class Diagram

4.4

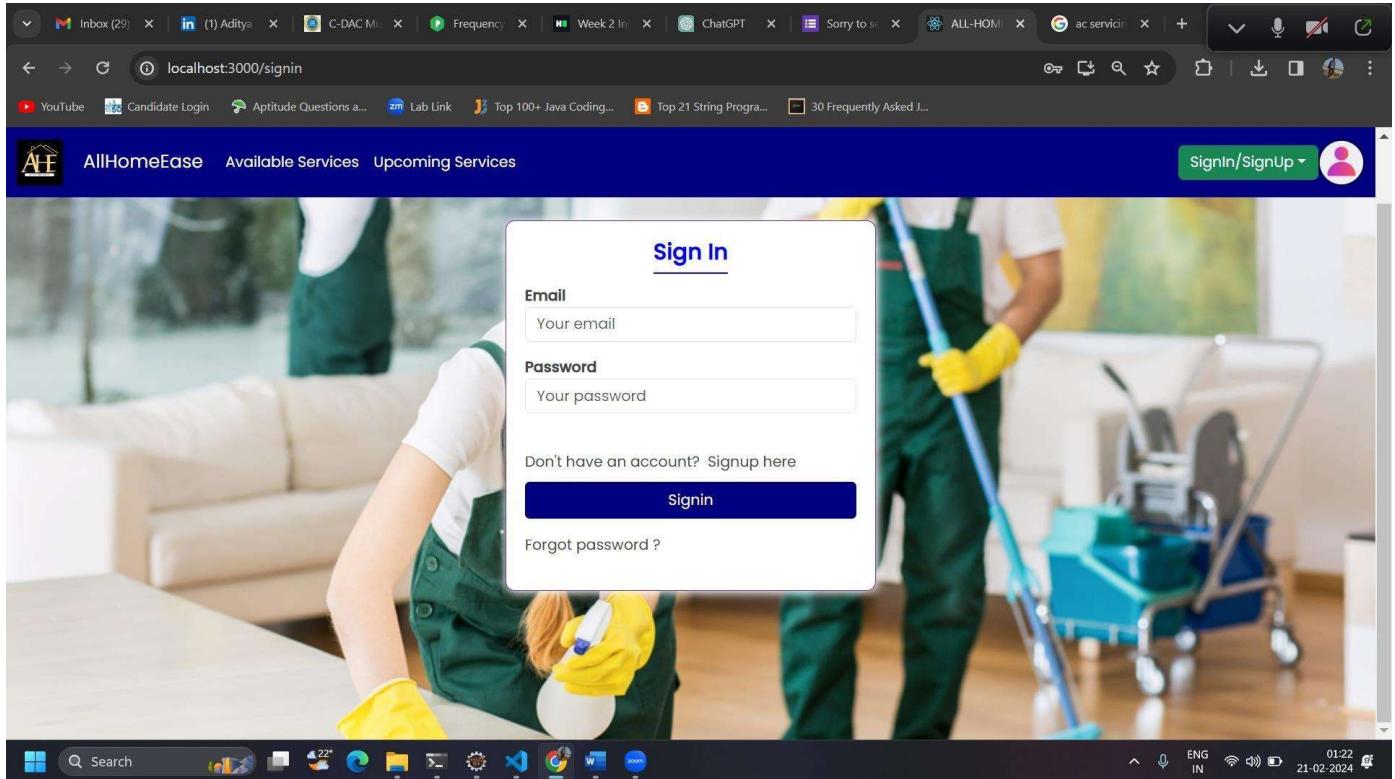
Signup/User Registration:

The screenshot shows a web browser window with the URL localhost:3000/signup. The page title is "Signup". The form fields are as follows:

- First Name: Your first name
- Last Name: Your last name
- Phone Number: Your mobile number
- Email: Your email
- Password: Your password
- Confirm Password: Repeat above password
- DOB: yyyy-dd-mm
- House No.: Your House No.
- Street: Your Street
- City: Your City
- State: Select your state
- Pincode: Enter PinCode

The background of the page features two blurred images: a woman in green overalls cleaning a window with a spray bottle and a cloth, and a man in green overalls mopping the floor. The browser's address bar shows multiple tabs open, including "Inbox (29)", "Candidate Login", "Aptitude Questions a...", "Lab Link", "Top 100+ Java Coding...", "Top 21 String Program...", "30 Frequently Asked J...", and "ALL-HOME". The system tray at the bottom right shows the date as 21-02-2024, the time as 01:21, and various system icons.

Sign in page-This is sign in page for user to sign in



Home Page : Landing page of user after sign in

The screenshot shows the AllHomeEase landing page. At the top, there is a banner with a background image of a person working on architectural blueprints. Overlaid on the banner is the text: "Welcome to Home Services", "Extraordinary service for extraordinary customers", "ONE STOP SOLUTION FOR ALL YOUR NEEDS", and "To our detailed system of providing services". Below the banner, there are three service categories: "Computer Repairing", "Painting Services", and "Housekeeping". Each category has a small image, a title, and a price range.

Welcome to Home Services

Extraordinary service for extraordinary customers

ONE STOP SOLUTION FOR ALL YOUR NEEDS

To our detailed system of providing services

Computer Repairing
₹ 500-10,500 ₹ 12,995.00
Computer Repairing Services

Painting Services
₹ 5000-25,000 ₹ 35,995.00
Painting Services

Housekeeping
₹ 2,500.00-5 ₹ 10,995.00
Housekeeping Services

AllHomeEase

COMPANY INFORMATION

- About Us
- Careers
- Blog
- Contact US
- FAQs
- Help
- Privacy Policy
- How it Works

USEFUL LINKS

- CDAC Mumbai
- info@allhomeease.com
- + 01 234 567 88
- + 01 234 567 89

CONTACT US

DEVELOPERS

- Yogesh Patil
- Shubhangini Sonawane
- Snehash Mundale
- Abhishek Thote
- Bhushan Gaikwad

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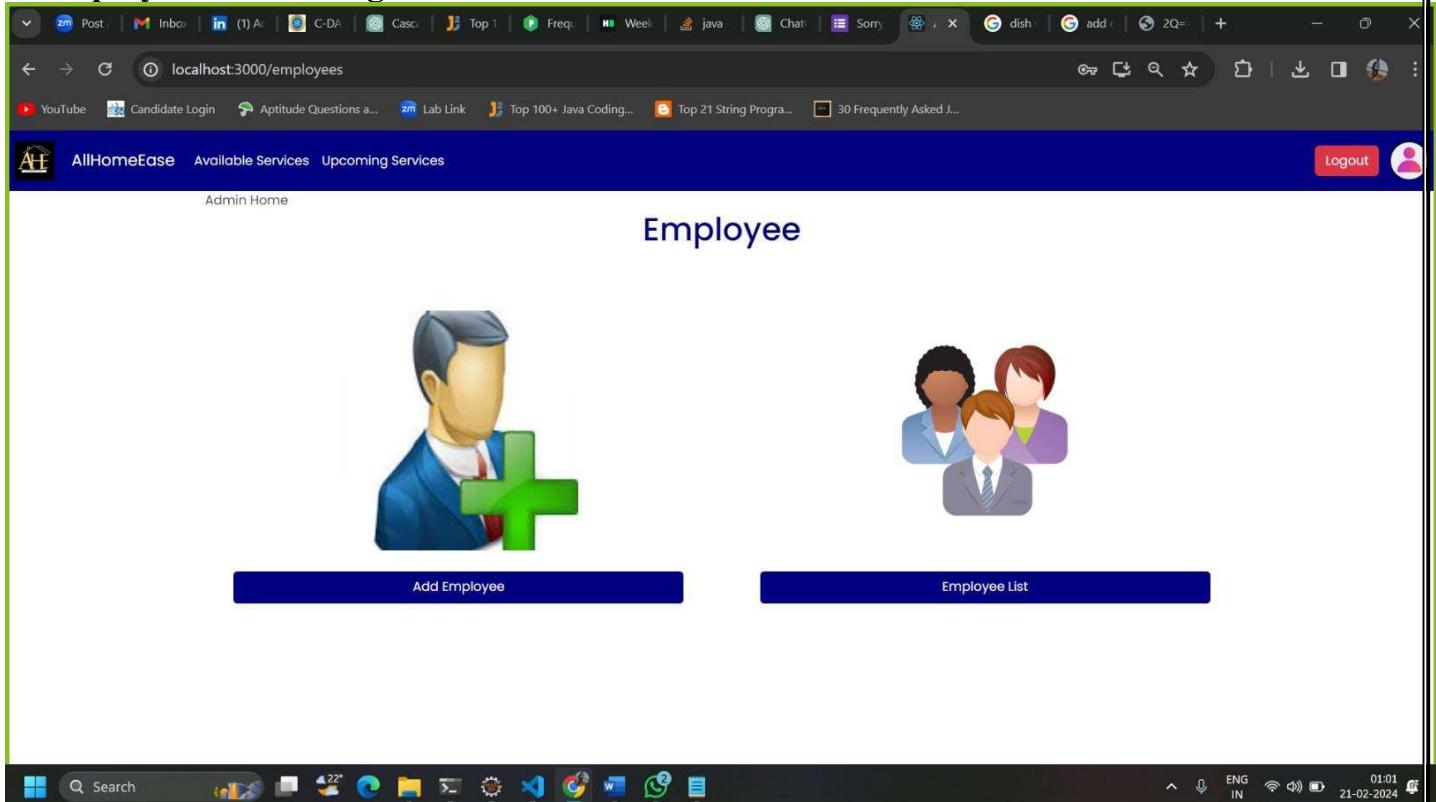
User Profile/Avtar:

A screenshot of a web browser showing the user profile page for 'Abhi'. The page has a dark blue header with the 'AllHomeEase' logo, 'Available Services', 'Upcoming Services', and a 'Logout' button. The main content area features a white card with a hand interacting with a network graph background. The card displays 'Hello, Abhi!' and 'Personal Details' section with fields: Name: Abhi Thote, Email: user@gmail.com, Phone: 1234567890. Below that is the 'Address' section with fields: House No: 01, Street: vasai Nager, City: PUNE, Pincode: 411033, State: Maharashtra. At the bottom are 'Update' and 'Order' buttons.

Admin Page with toast:

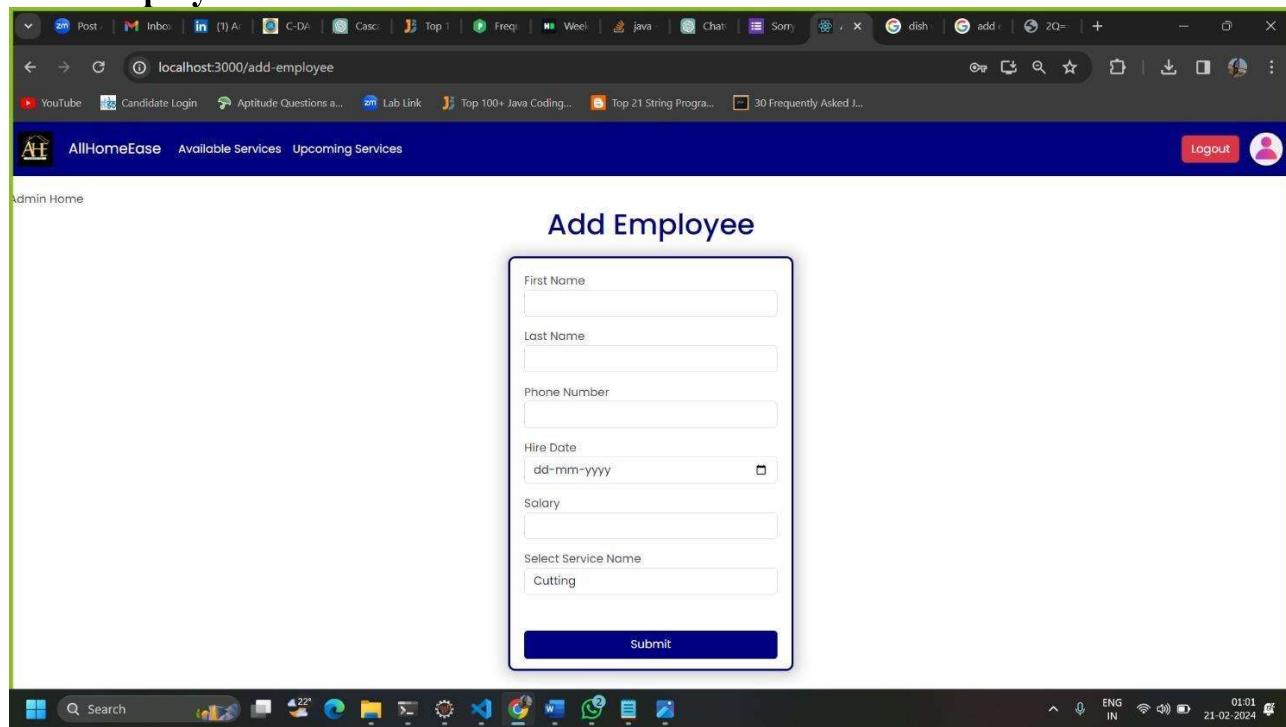
A screenshot of a web browser showing the admin page. The header includes the 'AllHomeEase' logo, 'Available Services', 'Upcoming Services', and a 'Logout' button. The main title 'Admin Page' is centered above four circular icons representing different service categories: 'Employee' (three people), 'Services' (hexagonal icons for various services like house, tools, etc.), 'Orders' (a shopping cart), and 'Show Users' (a group of people). Below each icon is a blue button with the corresponding label: 'Employee', 'Services', 'Orders', and 'Show Users'. The status bar at the bottom shows system information like '035_Bhushan_G...', 'ENG IN', and the date '21-02-2024'.

Employee Service Page:



The screenshot shows the 'Employee' service page. At the top center, there is a large green plus sign icon with a yellow human head profile inside it. To the right of the icon, there is a small icon depicting three people of different ethnicities. Below these icons are two blue rectangular buttons: 'Add Employee' on the left and 'Employee List' on the right. The background features a dark blue header bar with the 'AllHomeEase' logo, navigation links for 'Available Services' and 'Upcoming Services', and a 'Logout' button. The overall interface is clean and modern.

Add Employee:



The screenshot shows the 'Add Employee' form. It contains several input fields: 'First Name' (empty), 'Last Name' (empty), 'Phone Number' (empty), 'Hire Date' (set to 'dd-mm-yyyy'), 'Salary' (empty), and 'Select Service Name' (set to 'Cutting'). Below these fields is a blue 'Submit' button. The background is white with a dark blue header bar at the top. The header bar includes the 'AllHomeEase' logo, navigation links for 'Available Services' and 'Upcoming Services', and a 'Logout' button. The overall design is user-friendly and professional.

Employee List:

The screenshot shows a web browser window with the URL localhost:3000/list-employee. The page title is "Employee List". It displays a table with the following data:

ID	First Name	Phone Number	Salary	Status	Department	Actions
1	Virat	1122336655	4992	FREE	plumbing	<button>Edit</button> <button>Delete</button>
2	Mahendra	7777777777	777	FREE	dish wash	<button>Edit</button> <button>Delete</button>

The browser's address bar shows `localhost:3000/list-employee`. The top navigation bar includes links for "Available Services" and "Upcoming Services". The bottom status bar shows system icons and the date/time `21-02-2024`.

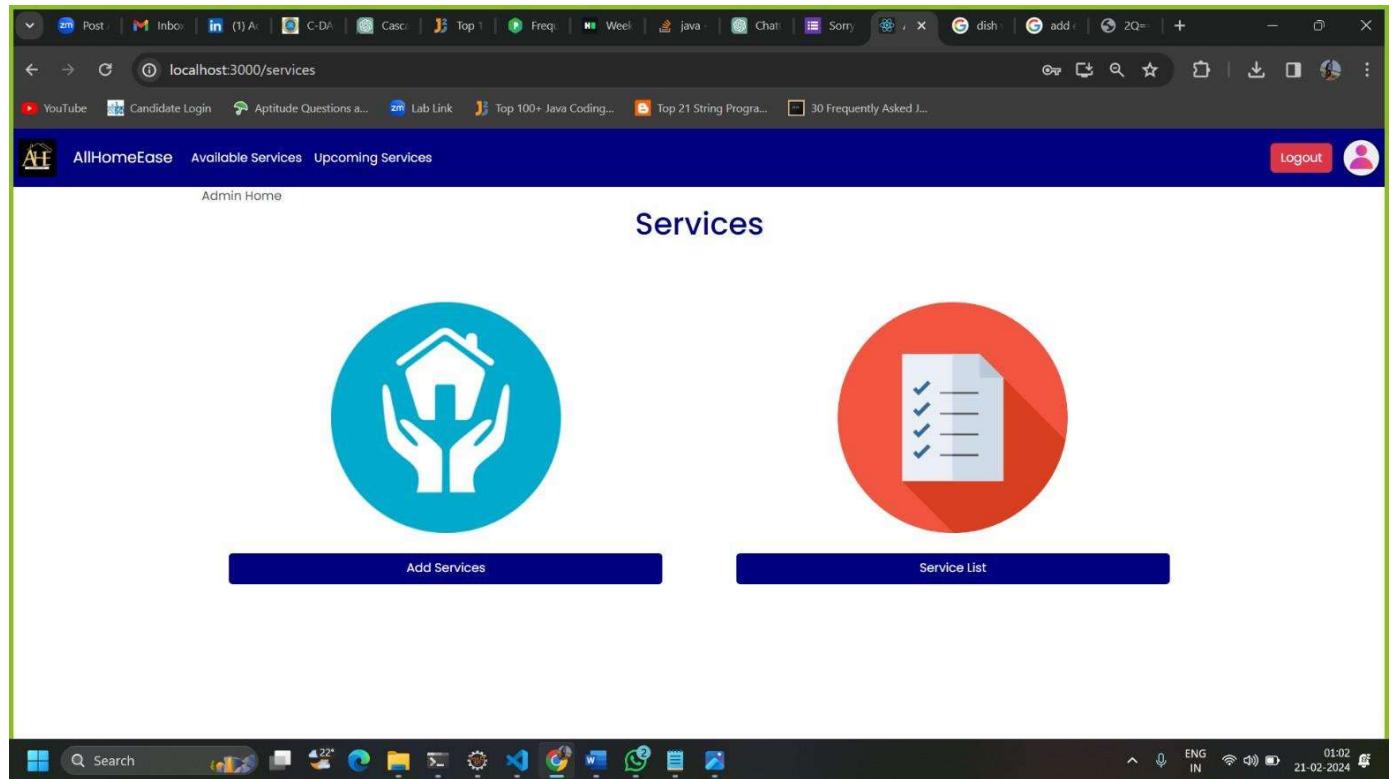
Update Specific Employee:

The screenshot shows a web browser window with the URL localhost:3000/updateemp/1. The page title is "Update Employee : Virat". A form is displayed with the following fields:

First Name	Virat
Last Name	Kohli
Phone Number	1122336655
Hire Date	19-02-2024
Salary	4992
Service Name	plumbing
Hire Status	FREE

The browser's address bar shows `localhost:3000/updateemp/1`. The top navigation bar includes links for "Available Services" and "Upcoming Services". The bottom status bar shows system icons and the date/time `21-02-2024`.

Add Services:



Add Specific Service:

The screenshot shows the 'Add Specific Service' page. The URL in the browser is 'localhost:3000/add-services'. The page has a 'Service' title at the top. It contains several input fields: 'Service Title' (text input), 'Short Description' (text area), 'Long Description' (text area), 'Service Charge' (text input), and 'Tax' (text input). At the bottom, there is a large blue 'Add Service' button. The bottom of the screen shows a Windows taskbar with various application icons.

Field	Type	Description
Service Title	Text Input	Enter the title of the service.
Short Description	Text Area	Enter a brief description of the service.
Long Description	Text Area	Enter a detailed description of the service.
Service Charge	Text Input	Enter the charge for the service.
Tax	Text Input	Enter the tax amount for the service.

Service List:

The screenshot shows a web browser window with the URL `localhost:3000/services-list`. The page title is "Service List". It displays a table with three rows of service data:

Service Name	Short Description	Charges	Actions
Cutting	abcdeghhjkl	200	<button>Edit</button> <button>Delete</button> <button>Upload Image</button>
plumbing	Plumbing services never seen before	1500	<button>Edit</button> <button>Delete</button> <button>Upload Image</button>
dish wash	dish	200	<button>Edit</button> <button>Delete</button> <button>Upload Image</button>

The browser's address bar shows several tabs and links related to coding and services. The system status bar at the bottom indicates "ENG IN" and the date "21-02-2024".

Upload Image For Specific Service:

The screenshot shows a web browser window with the URL `localhost:3000/uploadimage/2`. The page title is "Upload Image". It features a file input field labeled "Select image" with the placeholder "Choose File No file chosen" and a blue "Upload Photo" button.

The browser's address bar shows several tabs and links related to coding and services. The system status bar at the bottom indicates "ENG IN" and the date "21-02-2024".

Update Specific Service:

The screenshot shows a web browser window with the URL `localhost:3000/updateservice/2`. The page title is "Update Service : plumbing". The form fields include:

- Service Title: plumbing
- Service Charge: 1500
- Service Tax: 150
- Short Description: Plumbing services never seen before
- Long Description: Install, repair, and maintain pipes, valves, fittings, drainage systems, and fixtures in commercial and residential structures. Collaborate with general contractors, electricians, and other construction professionals.

A blue "Update" button is at the bottom. The browser's address bar shows the URL, and the taskbar at the bottom displays various application icons.

Booked Services/Orders:

The screenshot shows a web browser window with the URL `localhost:3000/showallbookedservices/`. The page title is "Services Booked". The table data is as follows:

ID	Customer Name	Service Name	Employee Name	Order Status	Actions
1	Abhi	plumbing	Virat	pending	<button>Change Status</button>
3	Abhi	dish wash	Mahendra	pending	<button>Change Status</button>

Below the table are two buttons: "Show Pending" and "Show Completed". The browser's address bar shows the URL, and the taskbar at the bottom displays various application icons.

Email Received on Sign-Up:

Login Details for Online Home Services Inbox x



aheservices2024@gmail.com

to me ▾

Your account details are:

Username: yogeshpatil892000@gmail.com

Password: Yogesh@123

Do not share credentials with anyone.

Thank You.

Reply

Forward



Email after order placed:

Back to inbox

Order Placed for the service : Ac-Services , order id is : 11 Inbox x



aheservices2024@gmail.com

to me ▾

10:52 PM (0 minutes ago)

Congratulations!!!

You have placed an order for service Ac-Services and order id is : 11

You will receive details of schedule very soon.

Thank you.

Reply

Forward



User Order Details:

The screenshot shows a web browser window for 'localhost:3000/showallbookedservices/'. The title bar says 'localhost:3000/showallbookedservices/'. The address bar also displays the same URL. The page header includes the 'AllHomeEase' logo, 'Available Services', 'Upcoming Services', a 'Logout' button, and a user profile icon. Below the header, it says 'Admin Home'. The main content area is titled 'Services Booked' and contains a table with two rows of service bookings. At the bottom, there are buttons for 'Show Pending' and 'Show Completed'.

ID	Customer Name	Service Name	Employee Name	Order Status	Actions
1	Abhi	plumbing	Virat	pending	<button>Change Status</button>
3	Abhi	dish wash	Mahendra	pending	<button>Change Status</button>

[Show Pending](#) [Show Completed](#)

User Update Profile Details:

The screenshot shows a web browser window with multiple tabs open at the top, including 'Inbox (29)', 'Aditya', 'C-DAC Mu...', 'Frequency', 'Week 2 In...', 'ChatGPT', 'ALL-HOM...', 'ac service...', and others. The main content area displays a form titled 'Update Profile' over a background image of two people cleaning a window. The form fields include:

- First Name: admin
- Last Name: bobo
- Phone Number: 1234567899
- Email: admin@gmail.com
- Password: (redacted)
- Confirm Password: (redacted)
- DOB: 2000-01-01T00:00:00.000+00:00
- House No: 01
- Street: asdfghijkl
- City: PUNE
- State: Maharashtra
- Pincode: 411033

A blue 'Update' button is located at the bottom of the form. The browser's address bar shows 'localhost:3000/updateuser/4'. The system status bar at the bottom right indicates '01:14', 'ENG IN', and the date '21-02-2024'.

Available Services:

The screenshot shows a web browser window with the URL localhost:3000/available-services. The page has a blue header bar with the AllHomeEase logo, navigation links for Available Services and Upcoming Services, and a Logout button. The main content area features a colorful background with three service cards:

- plumbing**: An image of a man in a blue cap and plaid shirt working on a pipe. Below the image is the text "Plumbing services never seen before". A blue button at the bottom right says "Rs. 1500".
- dish wash**: An image of a person in an apron washing dishes in a kitchen sink. Below the image is the text "dish". A blue button at the bottom right says "Rs. 200".
- Ac-Services**: An image of a person in a suit working on an air conditioning unit. Below the image is the text "Our AC repair services ensure swift and reliable solutions for your air conditioning". A blue button at the bottom right says "Rs. 3500".

The browser's address bar shows multiple tabs open, including "Inbox (29)", "LinkedIn (1)", "C-DAC MU", "Frequency", "Week 2 In", "ChatGPT", "ALL-HOME", "ac service", and others. The taskbar at the bottom of the screen displays various application icons.

Booking Service Page:

The screenshot shows a web browser window with multiple tabs open at the top, including 'Inbox (29)', 'Aditya', 'C-DAC M...', 'Frequency', 'Week 2 In...', 'ChatGPT', 'Sorry to s...', 'ALL-HOM...', 'ac service...', and several others. The main content area displays the 'AllHomeEase' booking service page for 'Ac-Services'. The page has a blue header with the logo and navigation links for 'Available Services' and 'Upcoming Services'. On the right, there's a 'Logout' button and a user profile icon. The central part of the page features a green-to-blue gradient background with a white rounded rectangle containing the service details. The title 'Book Service Ac-Services' is at the top, followed by a section titled 'Ac-Services' with a brief description of the service: 'Our AC repair services ensure swift and reliable solutions for your air conditioning systems. Our team of highly trained and experienced technicians begins by conducting a thorough diagnosis of your AC unit. This includes inspecting components such as the compressor, condenser, evaporator coils, thermostat, and refrigerant levels. By employing cutting-edge diagnostic tools and industry best practices, we identify the root cause of the problem.' Below this text is the price 'Rs. 3500 /-' and a blue 'Book Service' button.

5. REFERENCES:

<http://www.google.com>

<http://www.ezhomeservices.in/>

<https://premend.com/>

<http://www.w3.org>

<https://stackoverflow.com/>

<http://www.webdevelopersjournal.com/>

