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Faculty of Engineering and Technology Department of Computer Systems Engineering



" CARVEN APPLICATION "

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DEDICATION.

This work is dedicated:

First and foremost to Allah the almighty our creator, thank you for the guidance, strength, power of mind, protection, skills and for giving us a healthy life, Alhamdulillah. To My great teacher and messenger, Mohammed (May Allah bless and grant him), who taught us the purpose of life And We pay tribute to all our brave martyrs, and we ask almighty Allah to bind the hearts of their families with patience and faith, especially we are certain that our martyrs are alive with their Lord and give sustenance. To our parents who have never failed to give us Financial and moral support, for giving all our needs during the time we developed our system and for teaching us that even the largest task can be accomplished if it is done one step at a time. We dedicate this Project to all the people who have worked hard to help us to complete this project.

ACKNOWLEDGEMENT.

I would like to express my sincere gratitude to all who contributed to the completion of this project. Special thanks to my supervisor, Dr. Nael Salman, for his invaluable guidance and support throughout the process. We have greatly benefited from your wealth of knowledge, and careful editing and detailed comments were very important to us. Thanks Special to our colleagues and friends for their help and for the many useful discussions and good ideas along the way, and for those who helped us even with the little things, and without whom this work would not have been possible.

Last but not least, we would like to thank our parents for supporting us at every moment.

CHAPTER ONE : INTRODUCTION.

1.1 Project Overview & Background:

We live in an age of speed and development, accompanied by luxuries and vehicles, and we often see advertisements and electronic applications talking about vehicles and their modern accessories.

However, we do not see what targets the vehicle in general from places of maintenance, places of sale and rental and places of car accessories.

On the other hand, we see many people who are skilled in vehicle maintenance and companies for selling and renting cars, so we will enable the user of our application to enjoy all these services in an easy, smooth and fast way.

1.2 Problem Domain:

Carven, our intelligent car services app, addresses the growing number of drivers and the challenges they face on the road. Whether it's finding a mechanic in a new city, locating a gas station, or simply needing car care information, Carven provides a one-stop shop for drivers of all genders. The app offers features like service provider search, appointment booking, communication tools, and location-based information for car sales, rentals, and fuel stations. By making car care and services more accessible and convenient, Carven aims to empower all drivers and ease the burden of navigating the world of vehicles.

The name of our application, CARVEN, is derived from the words "car" and "heaven," symbolizing the world of vehicles, which has become our world due to our constant reliance on them.

1.3 Project Objectives:

Carven streamlines access to car-related services for drivers. The app connects users with maintenance shops, parts vendors, dealerships, rentals, and gas stations. Drivers can manage their needs through the app or website, including sending messages, making calls, and booking appointments. Secure payment options are available via bank transfer or credit card. User feedback helps improve the platform for everyone.

- **How We Propose to Address the Diagnosed Problems :**

We aim to provide a solution to the aforementioned problems by assisting customers in requesting the services they need for themselves and their vehicles. This can be achieved by creating a database, an application, and a dedicated web page to store the largest possible number of fuel stations, maintenance locations, and vehicle sales and rental companies in Palestinian cities as much as possible.

- **Save Time :**

By providing services electronically, drivers can save time by specifying their request with just a few mouse clicks or taps and a few key search words. This will save their valuable time, thus increasing customer satisfaction by expediting the process of service delivery and receipt.

- **Data security:**

Data is well protected for personal use by registering for an account through personal email and mobile phone number, along with a password for each user. The protection method that will be followed is sending a code to the personal email or making a phone call. The user can choose one method to verify and secure their account.

- **Minimum manual data entry:**

Our system offers a convenient way to order services through a mobile app or website, eliminating the need for phone calls or manual inquiries. This automation improves accuracy and streamlines the process for both customers and service providers. By replacing manual tasks with a computerized system, our platform increases overall productivity, efficiency, and accuracy.

1.4 Project Scope:

The system will consist of a platform, both in the form of a mobile application and a website, accessible both online and offline. It will be developed to allow users to view everything from payment options and types of products and services offered by the system, and then place orders through the system.

Users will be able to add or remove items from their shopping cart, add or remove requested services, and also choose their preferred payment method.

The system will allow each maintenance shop owner or vehicle company to update and make changes to their store and services offered through the system.

Furthermore, it will also allow employees to generate reports they wish to create, such as monthly sales and service reports. The most important function is allowing employees to generate invoices for consumers to pay after the order process.

1.5 Mythology :

The Iterative Waterfall Model is the development methodology that will be used in this project to develop the CARVEN. This Model is derived from the evolution of the Traditional Waterfall Model. It consists of six phases, which include; the Requirement and Definition, System and Software Design, Implementation and testing, System testing, Deployment and maintenance. Each of these phases is repeated if an error is discovered, this enables the correction of errors before moving to the next phase. The Figure below represents the Iterative Waterfall Model for this project, and each of the phases is explained accordingly.

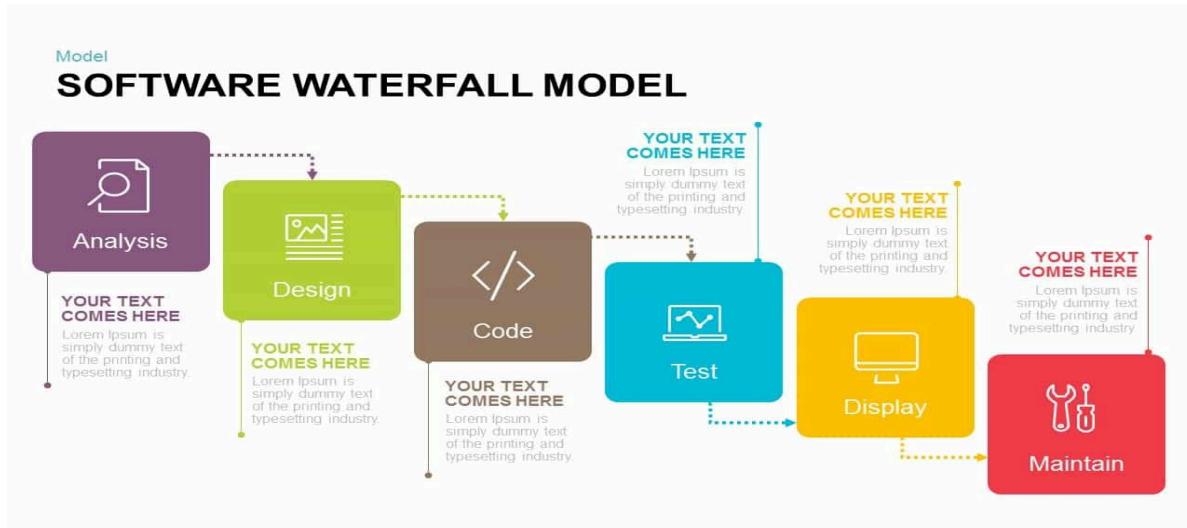


Figure 1.1 waterfall model

1.6 Chapter Summary :

Carven is a new platform that will provide customers with a convenient and secure way to access a variety of services online and offline. The platform will be easy to use and will include features such as search functionality, product details, shopping carts, checkout and order tracking. Carven will also provide a secure payment gateway and delivery options. We are the creators of Carven project , have already defined the project goals and explained how the platform will be structured. We are now ready to discuss the concept of a platform management system.

CHAPTER TWO : SYSTEM REQUIREMENTS.

2.1 NON-FUNCTIONAL REQUIREMENTS :

1. Security

The system has a login page and sign up to create an account and login for the system and Password must be at least 10 characters and the password saved as a hidden field in the database .

2. Usability Requirement

The system shall allow the users to access the system from the Internet using HTML or its derivative technologies like XML/CSS. The system uses a web browser as an interface. Since all users are familiar with the general usage of browsers, no special training is required. The system is user friendly and online help makes using the system easy and also the product will support English language.

3. Availability Requirement

The system is available 100% for the user and is used 24 hours in a day and 365 days a year. The system shall be operational 24 hours a day and 7 days a week.

4. Efficiency Requirement

Mean Time to Repair (MTTR) -Even if the system fails, the system will be recovered back up within 2 minutes or less.

5. Accuracy

The system should accurately provide real time information taking into consideration various concurrency issues. The system shall provide 100% access reliability.

6. Performance Requirement

- a. Response Time The response time to a user should be within one to two seconds from the request time.
- b. Throughput The LBMS shall enable many users to access it concurrently. The volume of transactions will depend directly on the number of users

2.2 FUNCTIONAL REQUIREMENTS :

Requirement analysis is a software engineering technique that is composed of the various tasks that determine the needs or conditions that are to be met for a new or altered product, taking into consideration the possible conflicting requirements of the various users. Functional requirements are those requirements that are used to illustrate the internal working nature of the system, the description of the system, and explanation of each subsystem. It consists of what task the system should perform, the processes involved, which data should the system hold and the interfaces with the user.

Specific Functional Requirements are:

ACTOR.	FUNCTIONAL REQUIREMENTS.
Client	<ol style="list-style-type: none"> 1. Register as member 2. Choose the type of service you need from the available services. 3. Communication with the service provider: This option allows you to directly communicate with the provider to discuss your needs and requirements. 4. Express your opinion: This option allows you to provide feedback on the services you have received. 5. Make a payment using one of the available methods (specified).
Staff	<ol style="list-style-type: none"> 1. Adding New Services 2. Add new locations and display the services they offer 3. Update details of the services offered 4. Respond to customer feedback and reviews 5. Ensure that the services selected by the customer are performed
Admin	<ol style="list-style-type: none"> 1. Add new staff 2. View reports 3. Performing transactions to add new locations and services that would provide new services to the customer and their vehicle. (This statement highlights the role of transactions in expanding the scope of services offered to customers and their vehicles.)

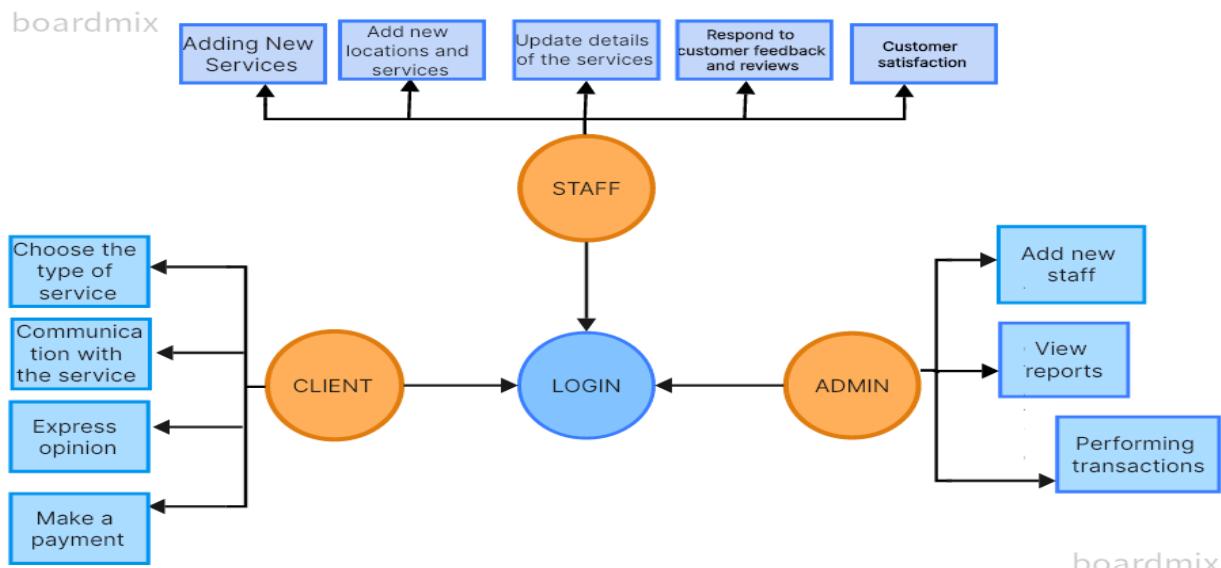


Fig2.1 sequence diagram.

CHAPTER THREE : PROJECT TECHNOLOGIES.

3.1 SOFTWARE TOOLS USED :

The whole Project is divided in two parts: the front end and the back end.

3.1.1 Front End :

The front end is designed using HTML , Php ,CSS, Java script.

1. HTML

HTML or Hypertext Markup Language is the main markup language for creating web Pages and other information that can be displayed in a web browser. HTML is written in the form of HTML elements consisting of tags enclosed in angle brackets (like<html>),within the web page content.The purpose of a web browser is to read HTML documents and compose them into visible or audible web pages. The browser does not display the HTML tags, but uses the tags to interpret the content of the page.

2. CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the look and formatting of a document written in a markup language. While most often used to style web pages and interfaces written in HTML, CSS is designed primarily to enable the separation of document content from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple pages to share formatting, and reduce complexity and repetition in the structured content (such as by allowing for tableless web design).

3. JAVA SCRIPT

JavaScript (JS) is a dynamic computer programming language. It is most commonly used as part of web browsers,whose implementations allow client-side scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is displayed. It is also being used in server-side programming, game development and the creation of desktop and mobile applications. JavaScript is a prototype-based scripting language with dynamic typing and has first class functions.

4. PHP

PHP is a widely-used scripting language specifically designed for web development. It can also be used for general programming purposes. PHP's code is run on the server side, and the web server generates the final web page. PHP code can be inserted directly into HTML files, making it convenient for web development. PHP has grown to include a command-line interface and can even be used in graphical applications.

3.1.2 Back End :

The back end is designed using MySQL which is used to design the databases MYSQL, MYSQL("My S-Q-L", officially, but also called "My Sequel") is widely used open-source relational database management system (RDBMS).MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation .MySQL is a popular choice of database for use in web applications, and is a central component of the widely used LAMP open source web application software stack (and other 'AMP' stacks).

3.2 System Architecture:

The Car rental Management System makes use of a Layered Architecture. Architectural designs have to incorporate the concept of independence and separation. This allows any changes taking place to be localized.Layered architecture applies this notion of independence and separation. The system's functionality is organized and divided into separate layers. Each layer depends on the services offered by the immediate layer beneath it. The system was developed incrementally allowing users to access some services provided by the layers as they underwent development. This architecture is also portable and it can be changed easily.This system's architecture is divided into a number of layers including the web browser,user interface, core functionality, and the operating system/database.

a. Operating System , Servers and Database Layer

This layer comprises the database and operating system which basically acts as the support software for the system. This system can run on any operating system including Windows, Linux, and Mac OS. It makes use of a MySQL database running on Wamp Server. PHP server side scripting language was used to code the system.

b. Core functionality Layer

This layer houses:The application layer which has all the application functionality.The data access layer which facilitates access to the MySQL database.

c. User Interface Layer

This layer contains the user interface management. It incorporates the login functionality that authenticates and verifies the system users.

d. Web Interface Layer

This layer contains the various web browser applications that provide an interface between the clients and the inner layer.

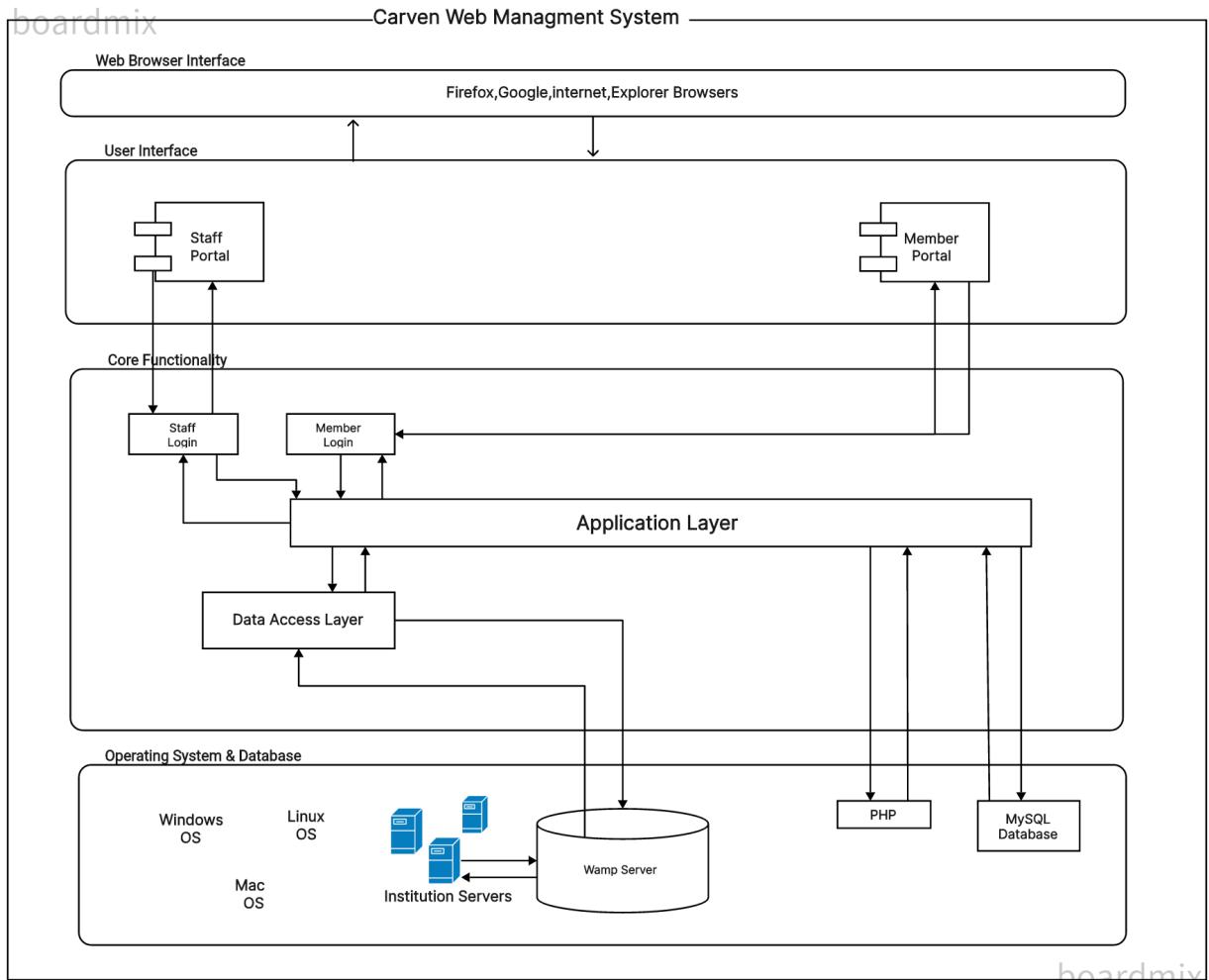


Fig 3.1 System Architecture

CHAPTER FOUR:DATA FLOW DIAGRAM (DFD).

A Data Flow Diagram (DFD) is a graphical representation that depicts the information flow and the transforms that are applied as data moves from input to output. In this diagram, Client and Services Provides are the two entity sets.

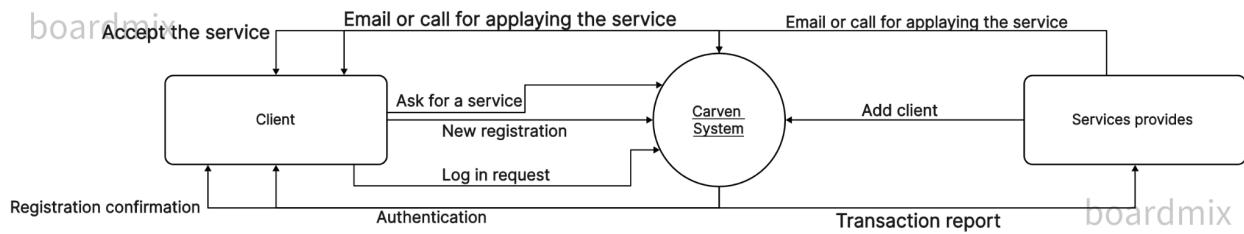


Figure 4.1 Level 0 DFD of Online CARVEN System In

1. Functions of Customer:

- New Registration.
- Login Request.
- Registration Confirmation by the System.
- Email or call received for applying service.
- Ask for service.
- Service issued by the system.

2. Functions of CARVEN Company (staff and admin):

- Add Client.
- Send Emails or call for applying services.
- View Transaction reports.

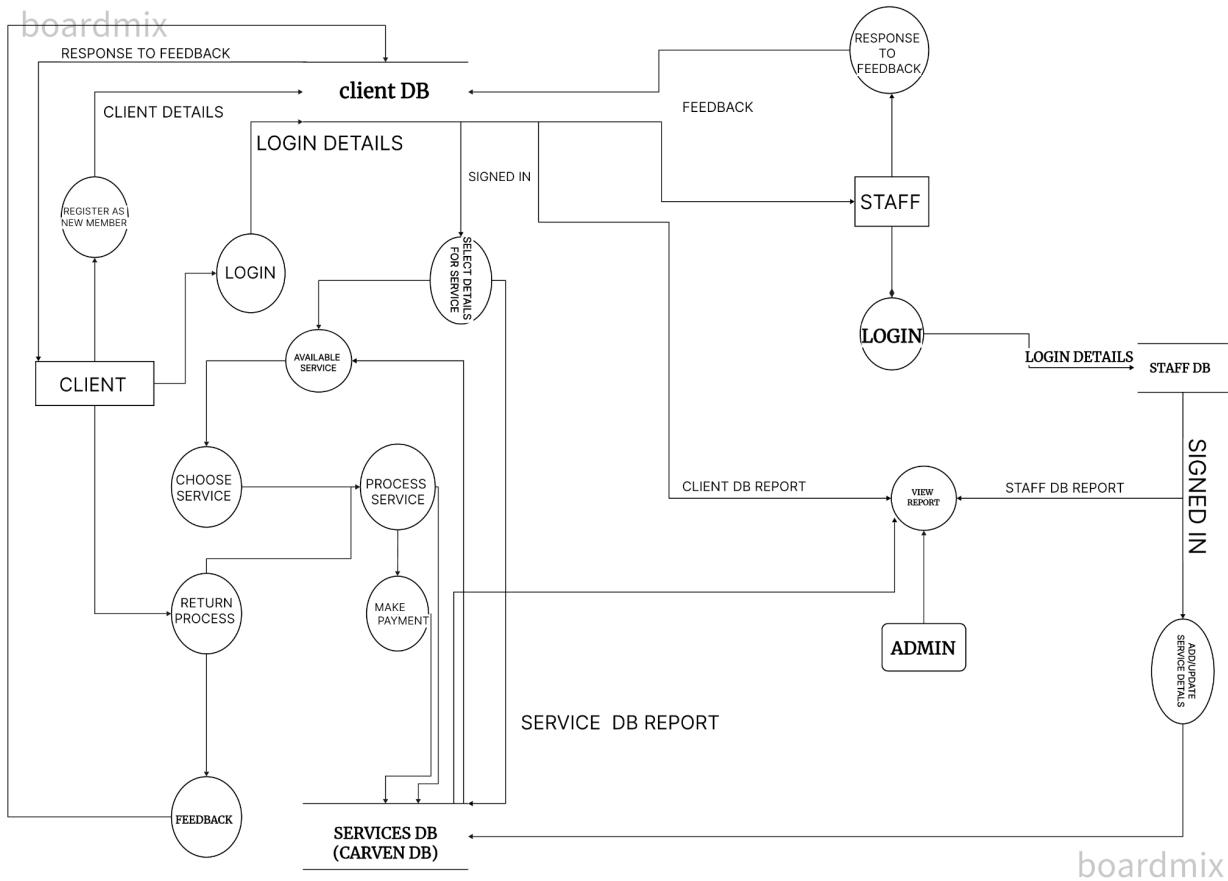


Figure 4.2 Level 1 DFD of Online CARVEN System

CHAPTER FIVE: USE-CASE DIAGRAMS.

5.1 Actor and Use Case Description :

Actor descriptions and use cases together map user journeys. This analysis clarifies how users leverage functionalities (use cases) to achieve goals within the system. In essence, it's a roadmap for understanding user interaction.

ACTORS	USE-CASE	USE-CASE DESCRIPTION
CLIENT	Registration as member	This use case describes the activities of the client to register online and become a member. Client details are required as part of the registration. Login details are automatically sent to the client after successful registration.
	Make service order	This system empowers customers to find and book the services they need. To ensure a smooth experience, unregistered users will be prompted to create an account before confirming their reservation. Once the task is completed, the system automatically sends a notification to the customer for their convenience.
	Give feedback	This use case is used by the client to provide feedback/comment to the company; a confirmation notification will be sent to the client once a feedback has been submitted.
	Pay bill	This use case allows the customer to choose the payment method that suits him, whether cash or using a credit card
STAFF	Add new services	This use case is used by employees to add a new service to the company's fleet database. Employees will need to log in to activate this use case
	Add new locations	This use case is used by employees to add new locations to cover as much space as possible in the company's fleet database. Employees will need to log in to activate this use case
	Update details for services	This use case is used by employees to edit and modify details of services provided whenever there is a new renewal (new companies joined, new services provided, new payment methods). It allows the company to keep an up-to-date record of its fleet.
	Reply to client	This use case describes the event by which staff send a reply to clients' earlier feedback. It depends on the 'give feedback' use case from the customer.
	Service process	This use case describes the event in which employees update the system when the customer receives the service and when the employees finish performing the service.
ADMIN	Add new staff	This use case describes the event by which Admin adds new staff detail to the company's staff database. It is invoked whenever a new staff member joins the company.
	View report	This use case is used by the Admin to view transaction reports.

5.2 Use Case Diagram :

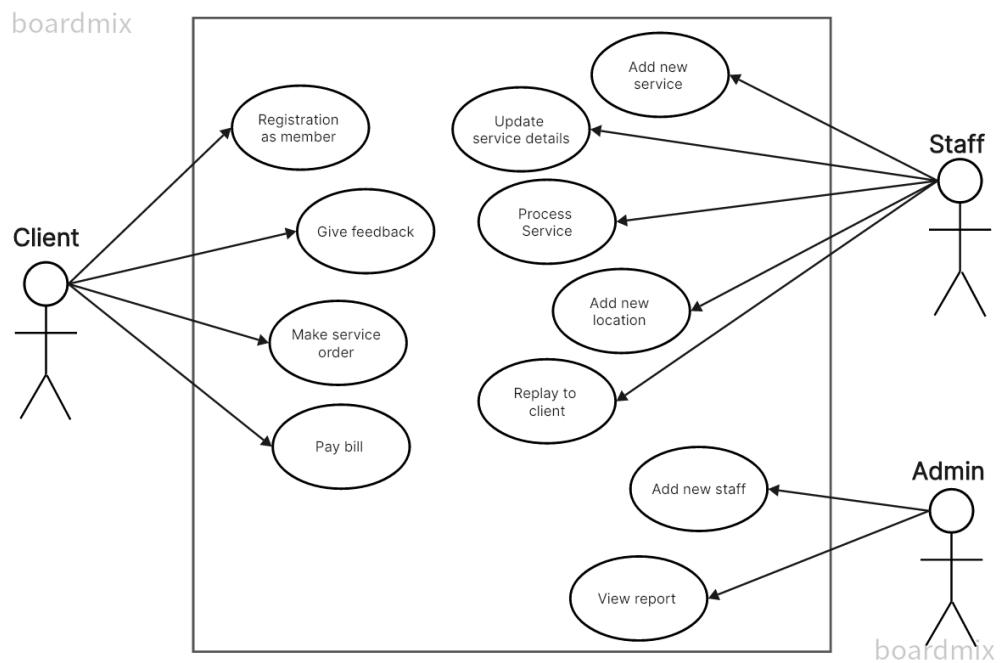


Figure 5.2 CARVEN System [use case]

5.3 Use Case Dependency Diagram :

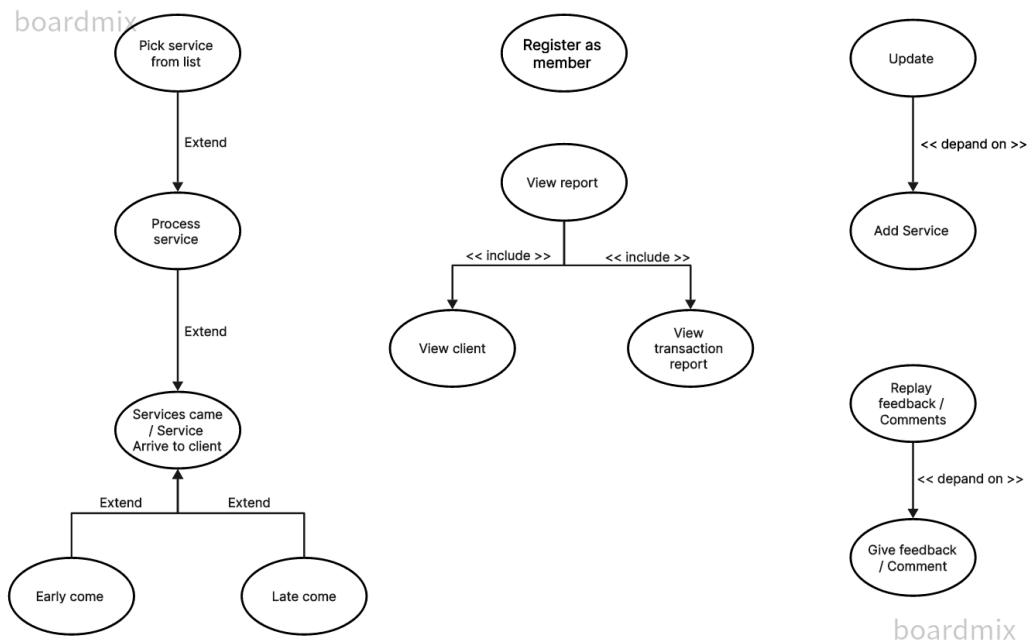


Figure 5.3: Use Case Dependency Diagram

CHAPTER SIX:ACTIVITY DIAGRAMS.

6.1 Activity Diagrams :

Activity diagrams are like visual roadmaps for a system's processes. They capture the step-by-step flow of business and operational tasks, highlighting the events that trigger each step. This detailed map becomes a crucial guide during the final design phase, ensuring the system can be navigated smoothly according to the planned workflows.

6.1.1 Member Registration :

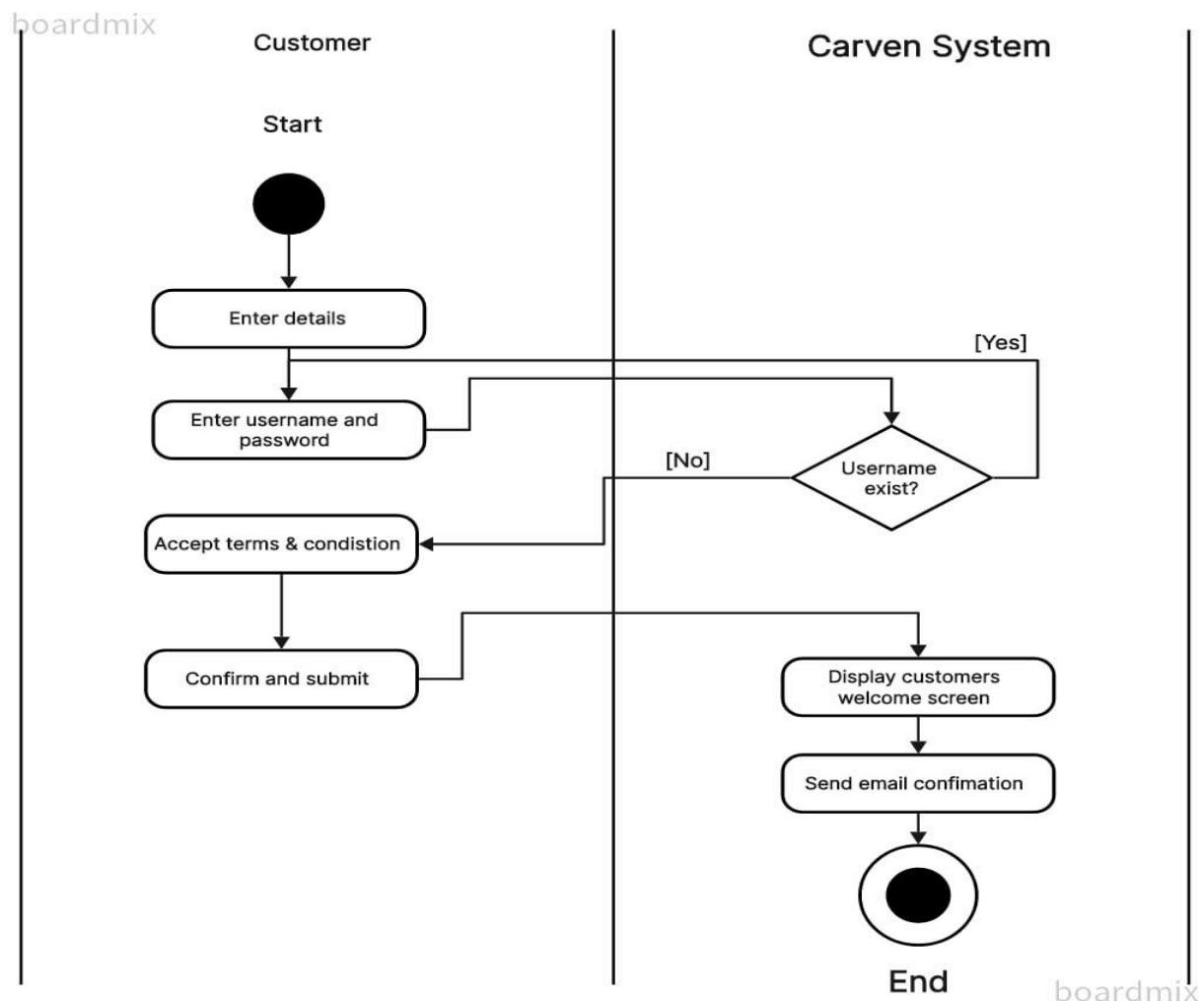


Figure 6.1: Register as member

6.1.2 Profile Modification :

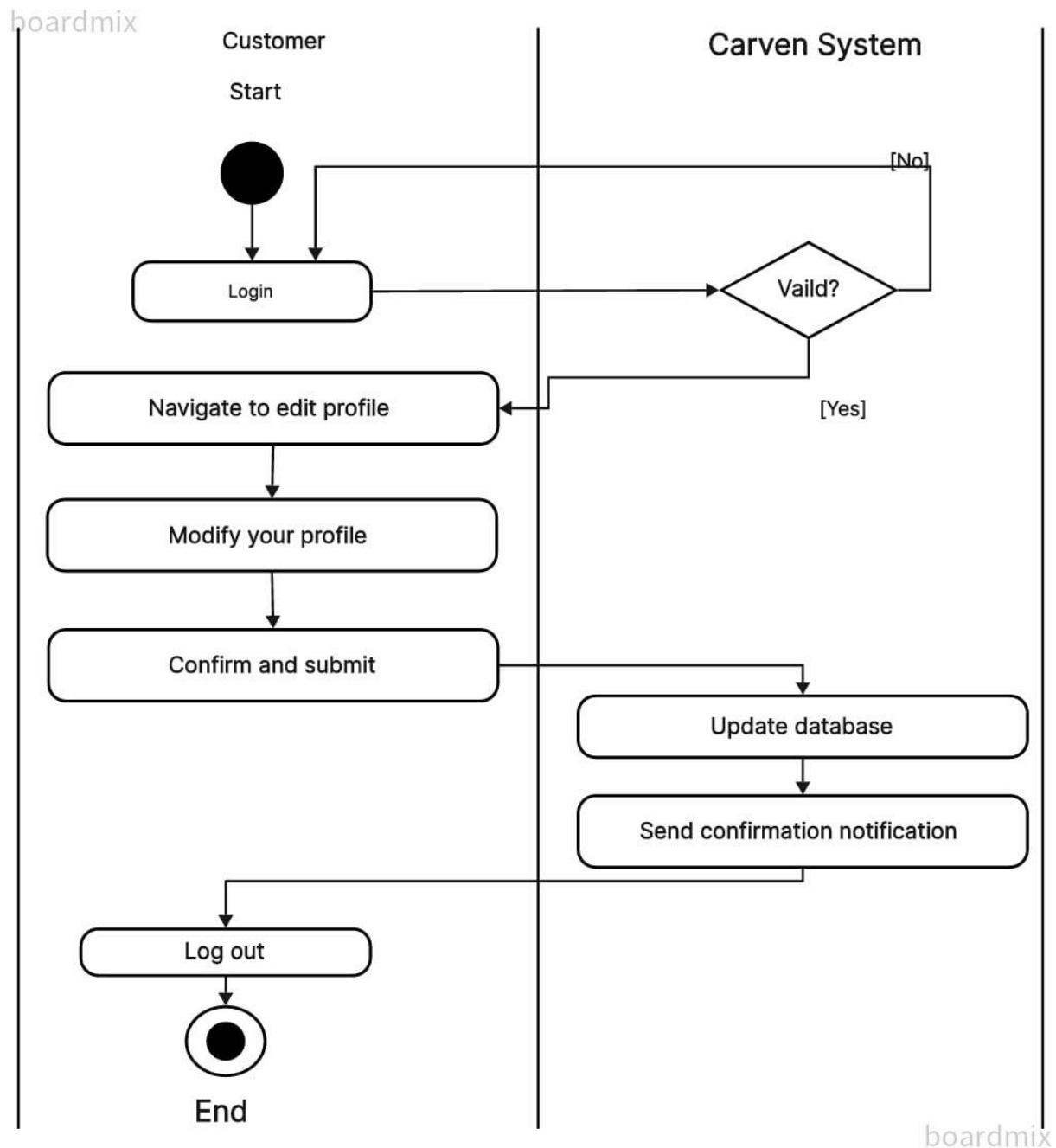


Figure 6.2: Modify profile

6.1.3 Reservation of Service:

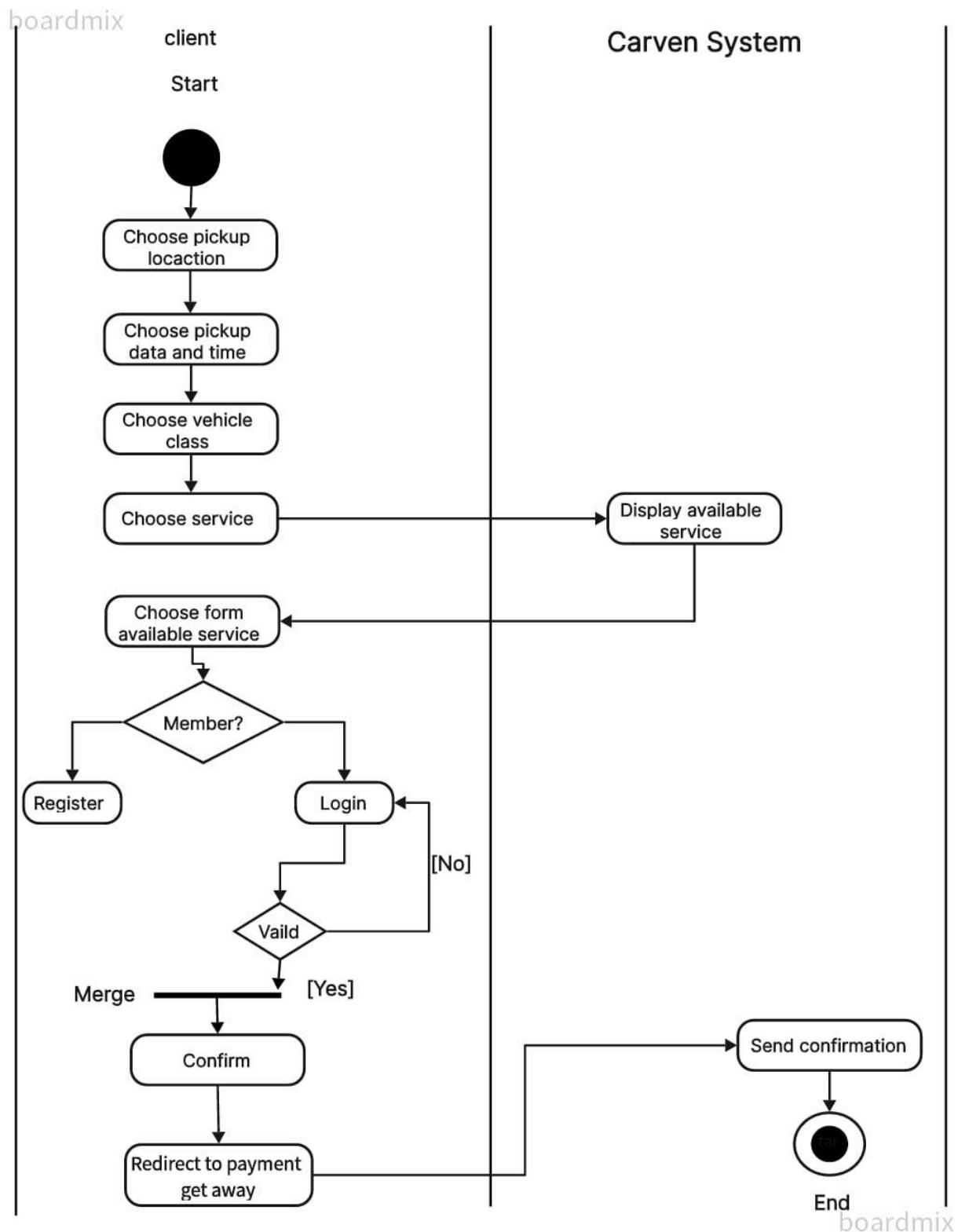


Figure 6.3: Make Reservation

6.1.4 Client(customer) Feedback:

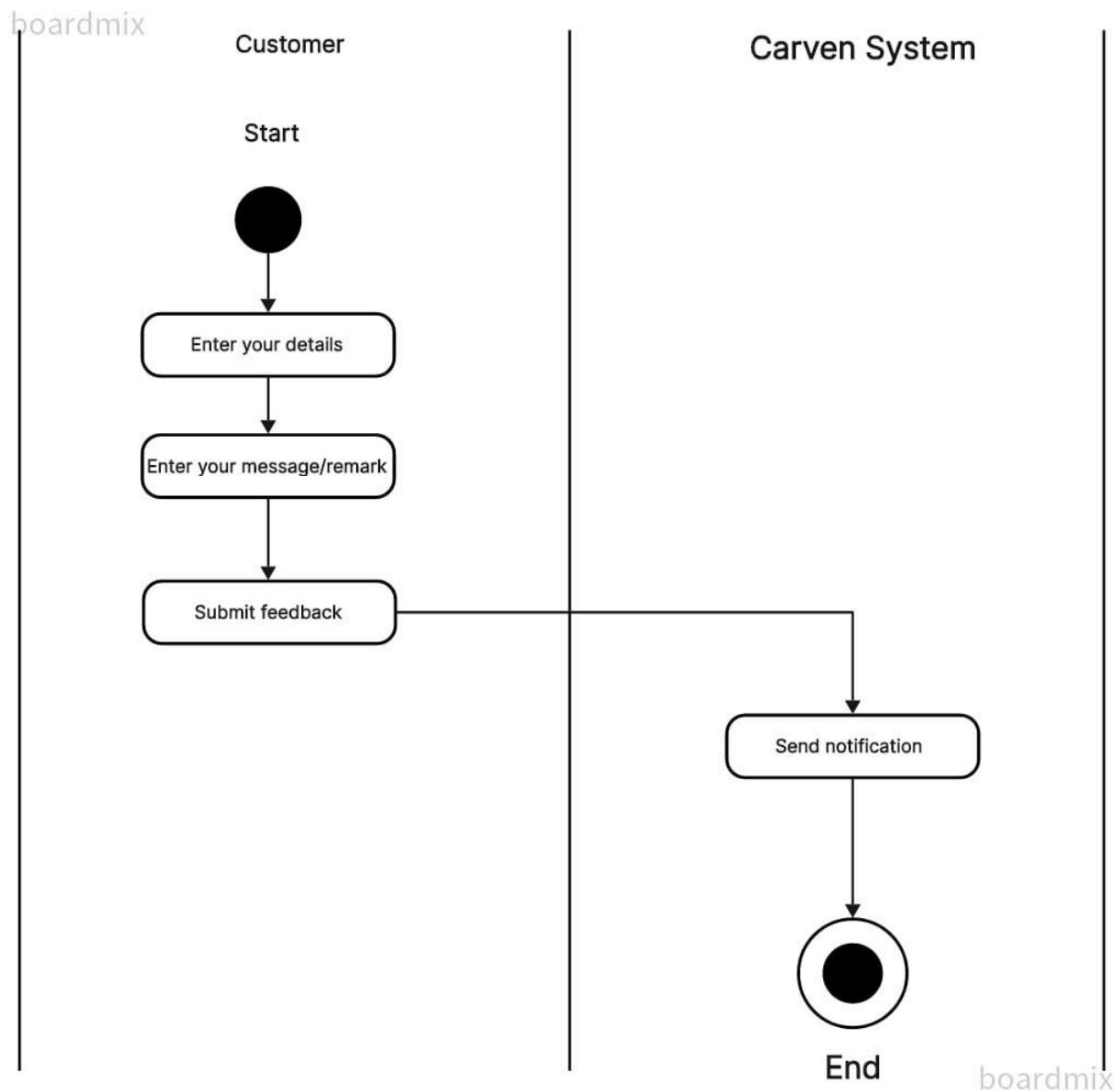


Figure 6.4: Give feedback/comment

6.1.5 Payment Of Services:

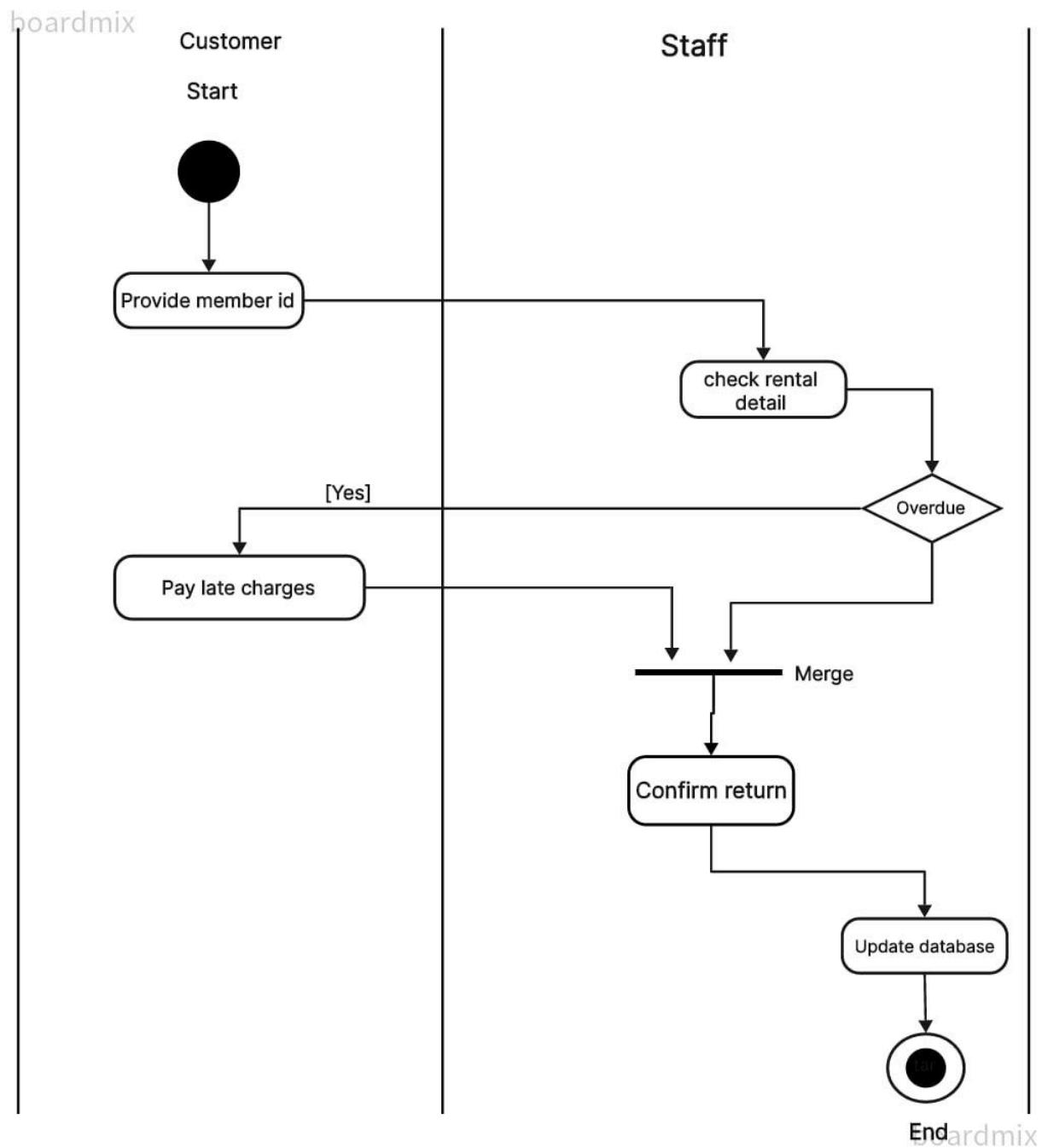


Figure 6.5: payment for Services

6.1.6 Adding A New Services:

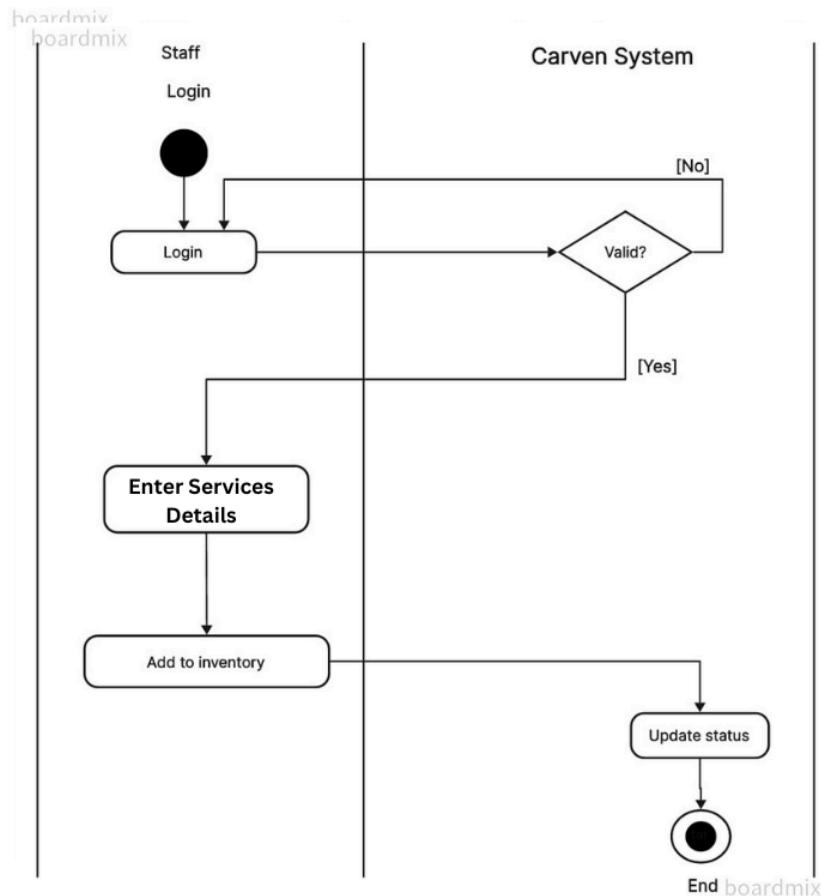


Figure 6.6: Add a New Services

6.1.7 View Report:

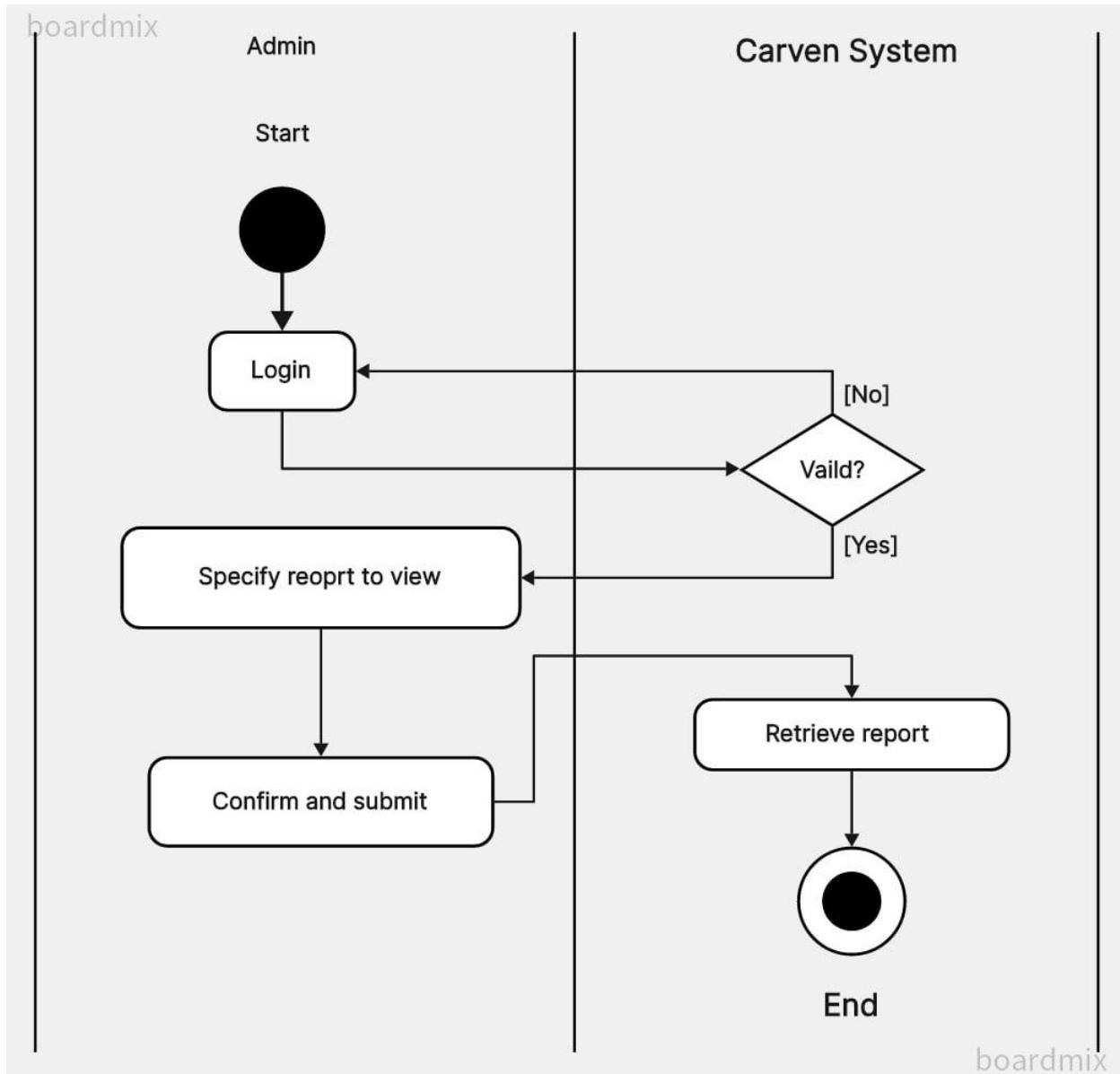


Figure 6.7: View report

CHAPTER SEVEN:SEQUENCE DIAGRAMS.

7.1 Sequence Diagrams :

Sequence diagrams are used to illustrate the behavior of objects in a use case by describing the objects, subjects, and messages they go through. They provide a graphical representation of object interactions over time. Sequence diagrams show the actor, objects, and components they interact with in executing a use case. A single sequence diagram represents a "scenario" or one use case event. Sequence diagrams show the flow of messages from one object to another, and thus align with the methods and events supported by the object.

7.1.1 Member Registration :

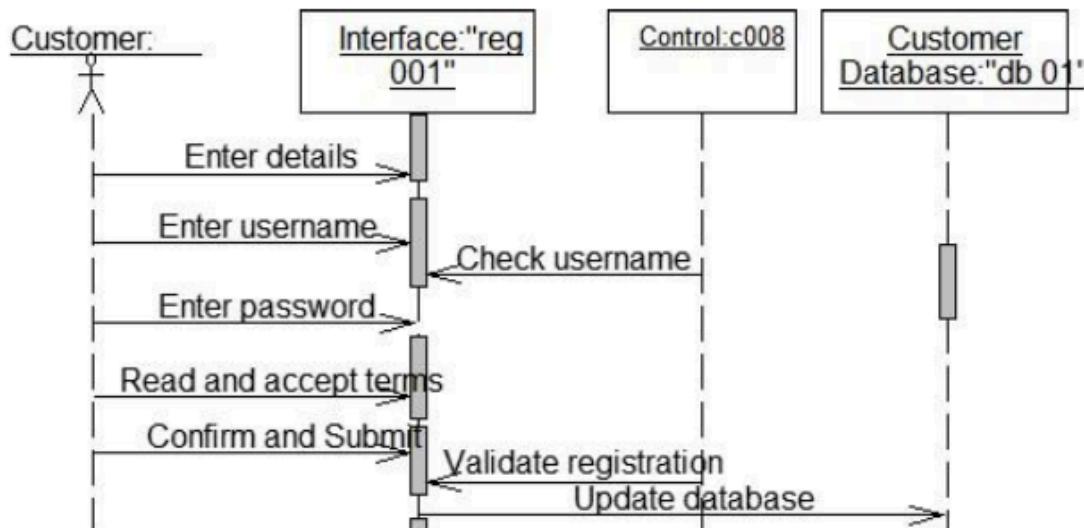


Figure 7.1: Register as member

7.1.2 Reservation of Services :

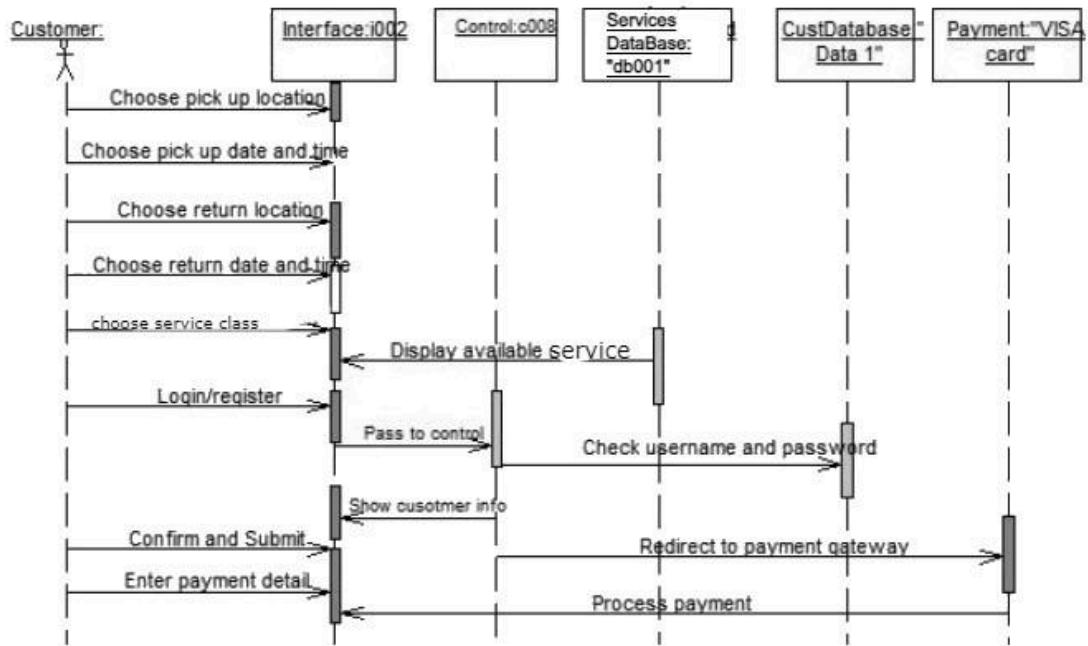


Figure 7.2: Make reservation

7.1.3 Client(customer) Feedback:

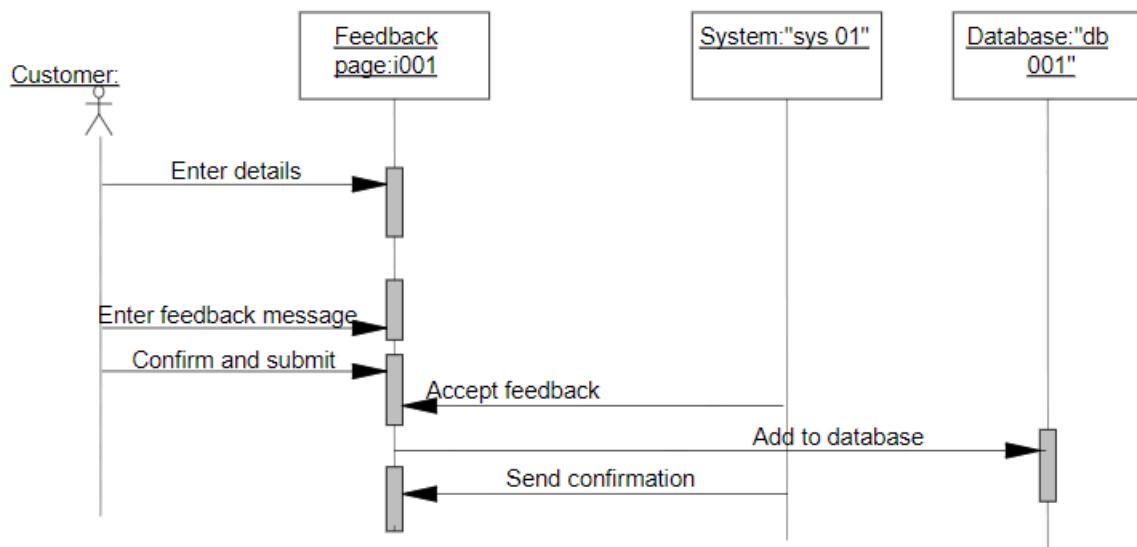


Figure 7.3: Give feedback



7.1.4 Adding a New Services :

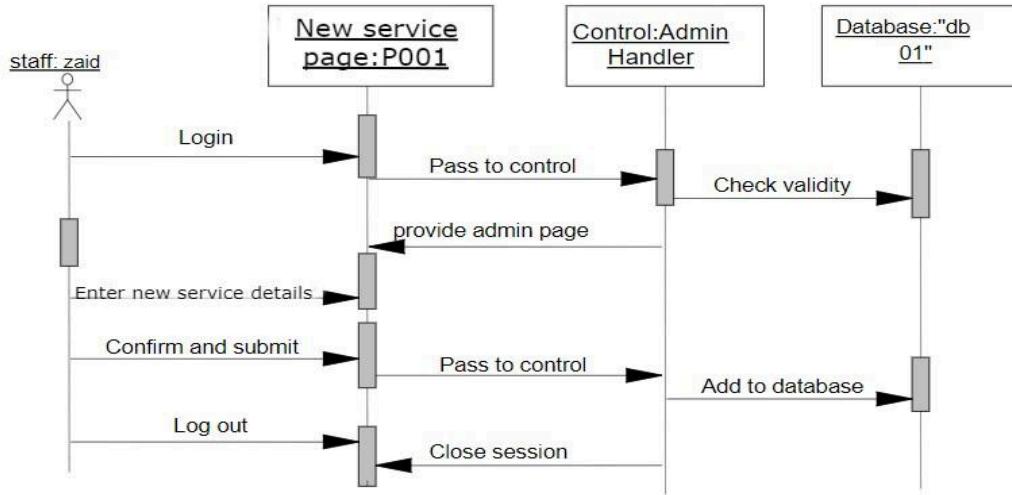


Figure 7.4: Adding process

7.1.5 Feedback Response:

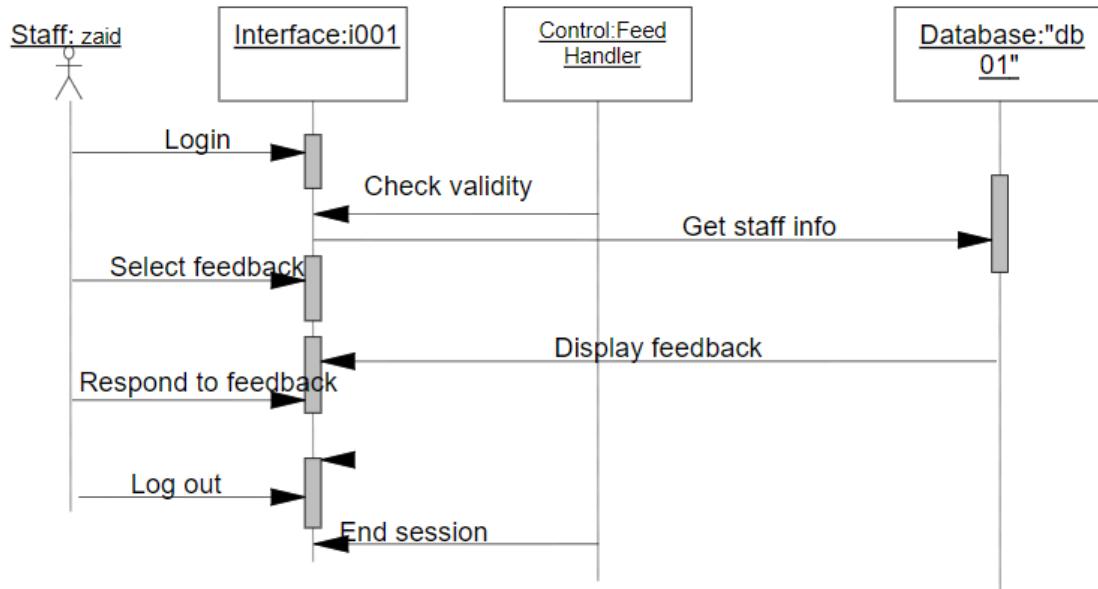


Figure 7.5: Respond to feedback

7.1.6 Payment Of Services :

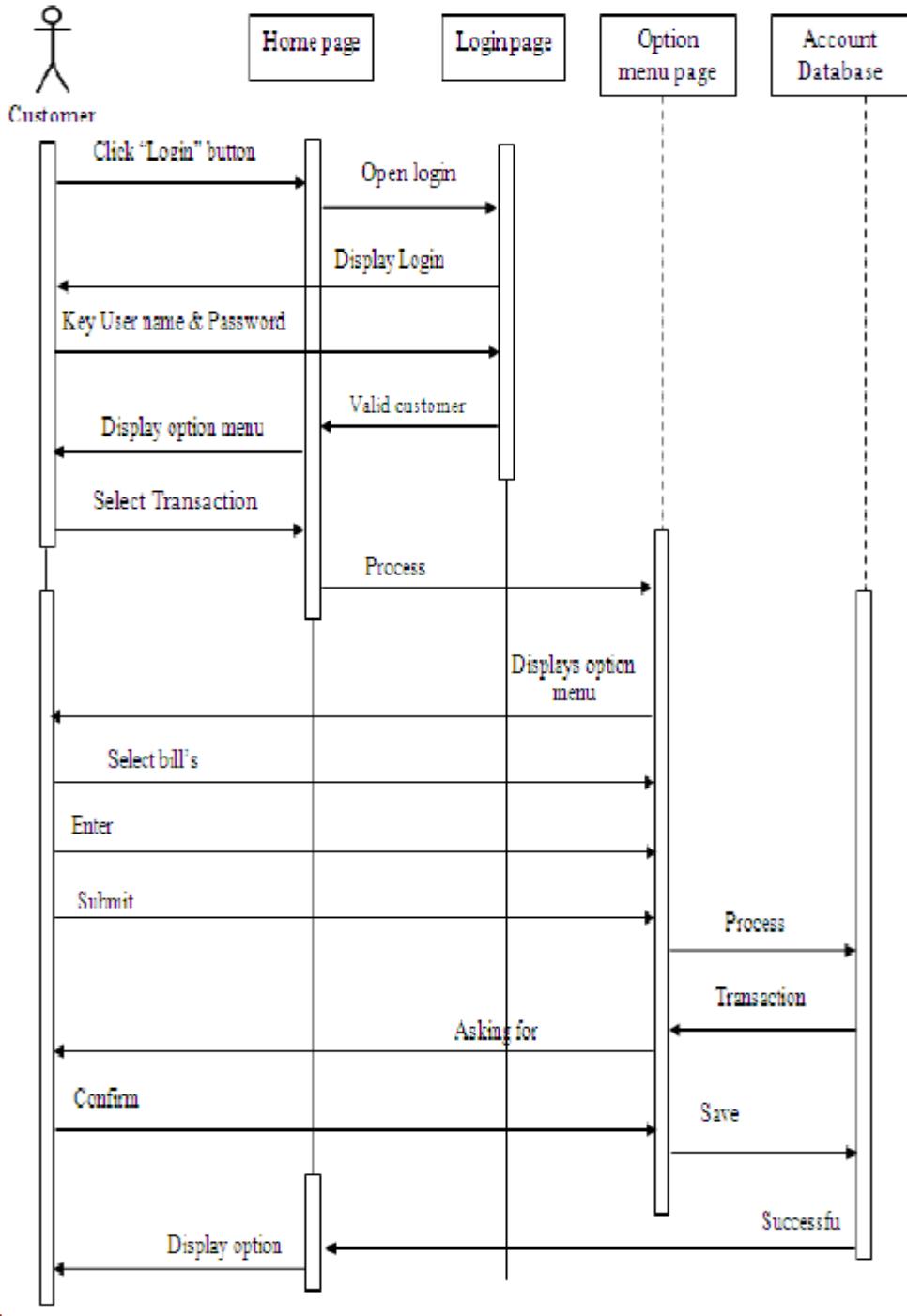


Figure 7.6 Payment process

7.1.7 View Report :

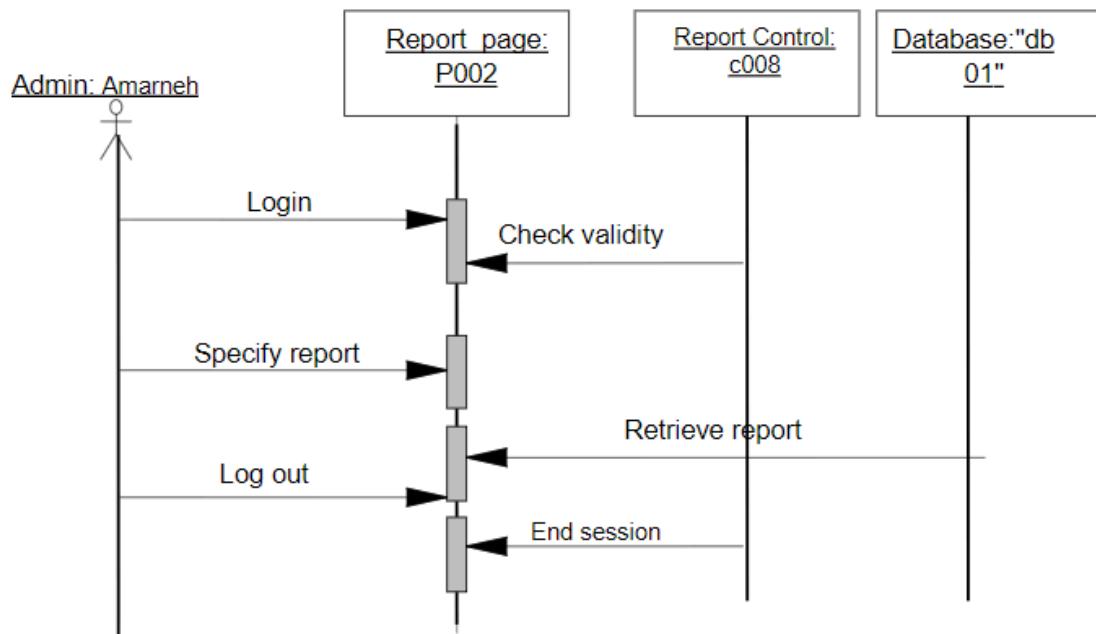


Figure 7.7: View report

CHAPTER EIGHT :CLASS DIAGRAMS.

8.1 Class Diagram :

The class diagram is the main building block, a number of classes are identified and grouped together in a class diagram which helps to determine the statically relations between those objects.

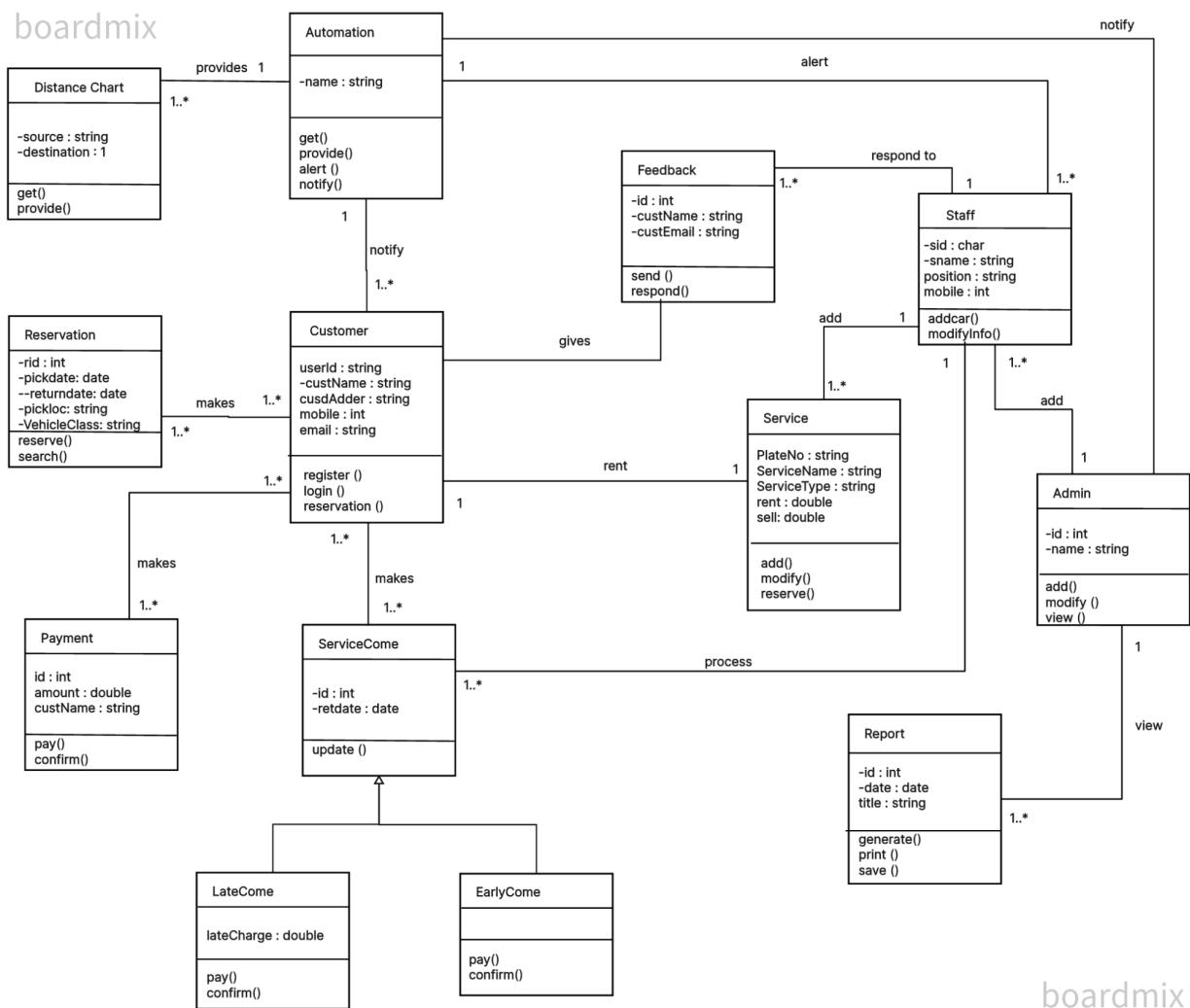


Figure 8.1 Class Diagram of Online CARVEN System

CHAPTER NINE :IMPLEMENTATION AND RESULT.

This chapter details the CARVEN service management system's testing process and results. Screenshots are used to illustrate the functionality. The system is designed to handle various vehicle services tasks, and the following section will explore how these tasks are achieved.

Security is a major focus in CARVEN's design and development. Multiple security levels are implemented to restrict access based on user types. Users can only access specific pages depending on their assigned security level. These levels determine the various actions a user can perform within the system. The three levels are Admin, Staff, and Member.

Figure 9.1 Depicts the CARVEN system's homepage, the common entry point for all users. To log in, users click the JOIN FOR FREE button, which brings up a login form for them to proceed.

9.1 Main Page :

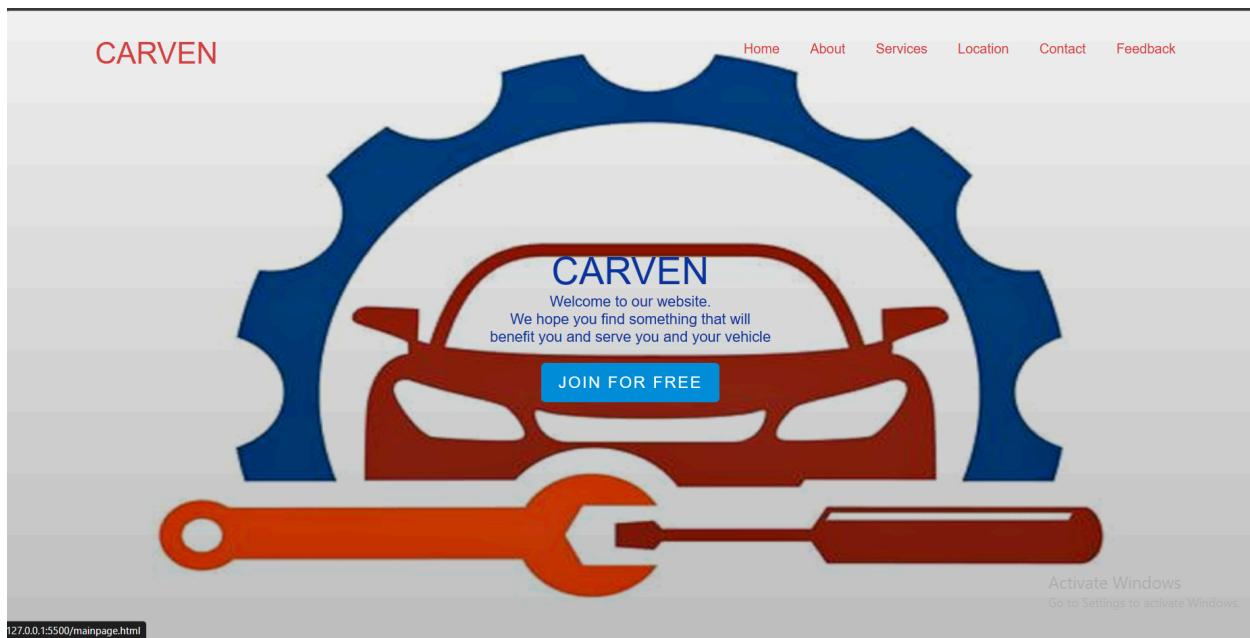
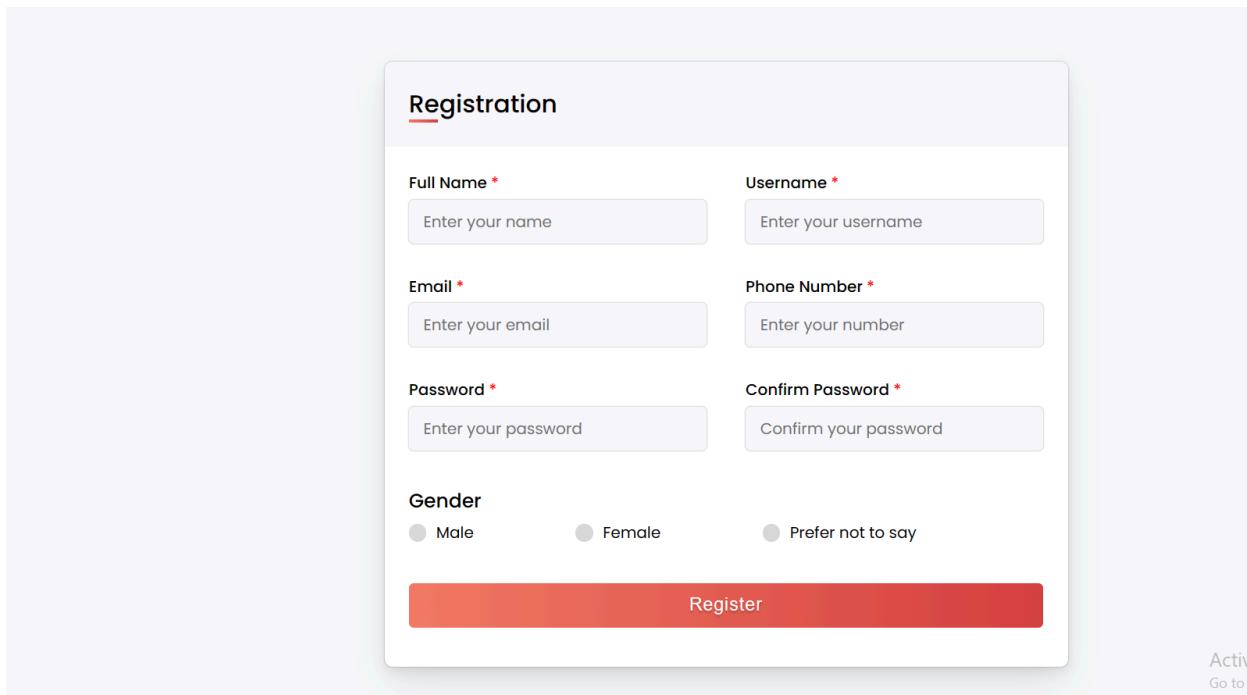


Figure 9.1 CARVEN System's homepage

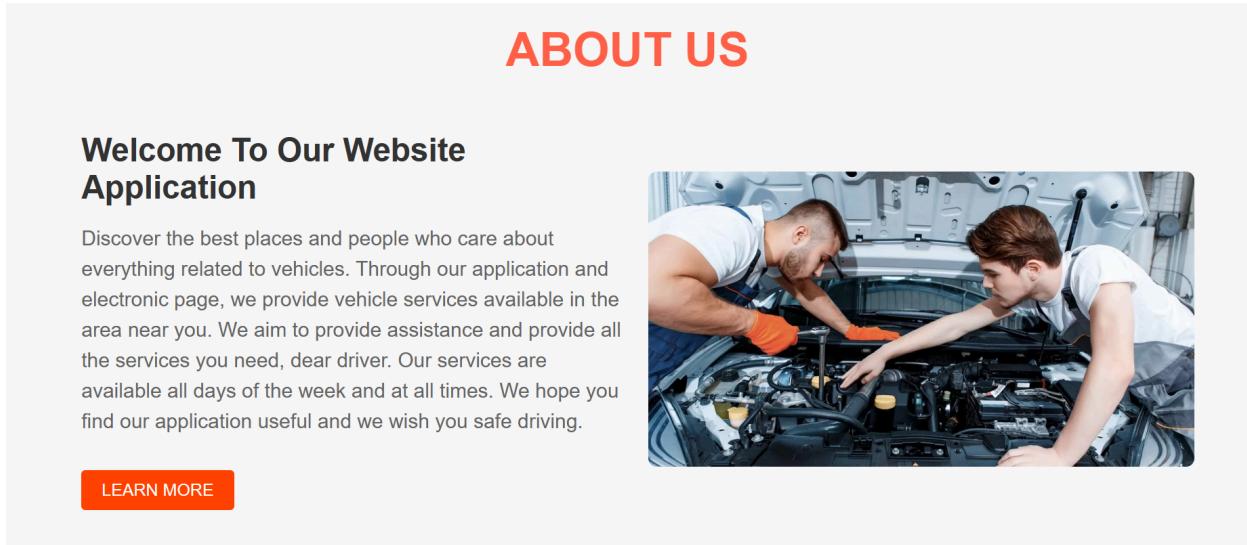
9.2 Registration Page :



The registration page features a light gray header with the word "Registration". Below it is a white form area with six input fields arranged in two columns. The left column contains "Full Name *", "Email *", and "Password *". The right column contains "Username *", "Phone Number *", and "Confirm Password *". Each field has a placeholder text inside. Below the fields is a "Gender" section with three radio buttons: "Male", "Female", and "Prefer not to say". At the bottom is a large red "Register" button.

Figure 9.2 CARVEN System's registration page

9.3 About Us Page :



The about us page has a large red "ABOUT US" title at the top. Below it is a section titled "Welcome To Our Website Application" with a descriptive paragraph. To the right is a photograph of two men working on a car engine under the hood. At the bottom left is a red "LEARN MORE" button.

Figure 9.3 CARVEN System's about us page

9.4 Contact Us Page :

CONTACT US

Your Name *

Your Phone Number *

Message *

Send

CARVEN TEAM

If you have any questions or need help , please do not hesitate to contact us using the information provided.We're here to help you !

CONTACT INFORMATION

Email:carven_contact@gmail.com
Phone:(+972)456-7890
Address:123,Al-Ersal Street,Ramallah,Palestine

Activate W
Go to Settings

Figure 9.4 CARVEN System's contact us page

9.5 Our Features Page :

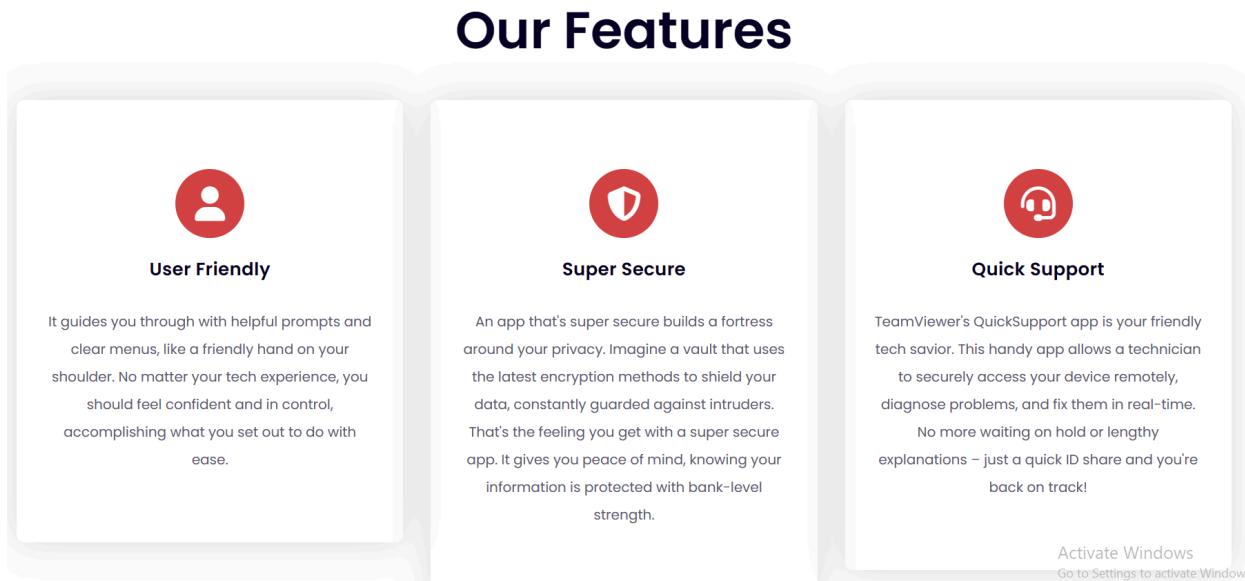


Figure 9.5 CARVEN System's our features page

9.6 Our Services Page :

Our Services		
 Selling and renting cars Many car dealerships offer both sales and rental options, allowing customers to choose between owning a vehicle or using one for a shorter period.	 Car Accessories Places that sell various types of car accessories near you are displayed	 Car maintenance Places and people specialized in car maintenance of various types and shapes are displayed
 Quick maintenance service Rapid maintenance service on the roads, where companies and people specialized in this matter are included, so that services are provided as quickly as possible.	 Gas stations Gas stations service, where all gas stations are listed, their operating hours are displayed, and their locations are displayed	 Electric vehicle charging stations Electric car charging stations service, where all electric car charging stations are listed, their operating hours are displayed, and their locations are displayed <small>Activate Windows www.microsoft.com/windows</small>

Figure 9.6 CARVEN System's our services page

9.7 Example Of Our Services Page :

Welcome to Our Selling and Renting Service	
Discover famous car companies that selling and renting cars in JENIN city.	
Audi Q2 (Auto) <small>or similar</small> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> Audi Q2(Auto)or similar Selling Price:123K nis. Renting Price:150 nis per hour. To get more information visit AL-GHALIB company -Jenin Owner TEL:123596 </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">  SELL </div> <div style="text-align: center;">  RENT </div> </div>	
Audi A4 (Auto) <small>or similar</small> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> Audi A4(Auto)or similar Selling Price:180K nis. Renting Price:180 nis per hour. To get more information visit SARAH company -Jenin Owner TEL:127977 </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">  SELL </div> <div style="text-align: center;">  RENT </div> </div>	

Figure 9.7 CARVEN System's example of our services page

9.8 Payment Page :

BILLING ADDRESS		PAYMENT	
Full Name :	Ali or any name	Cards Accepted :	   
Email :	example@example.com	Name On Card :	mr. Ali
Address :	room - street - locality	Credit Card Number :	1111-2222-3333-4444
City :	Jenin	Exp Month :	january
State :	Palestine	Zip Code :	123 456
		Exp Year :	2022
		CVV :	1234
Proceed To Checkout			

Activate
Go to Settings

Figure 9.8 CARVEN System's payment page

9.9 Footer Page :

Contact Us Email:CARVENcomp@gmail.com Phone:+121 56556 565556 Address:Ramallah 123 street	Quick Links Home About Services Contact FAQ&A	Follow Us    
---	---	---

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Figure 9.9 CARVEN System's footer page

9.10 Completed Log In Page :

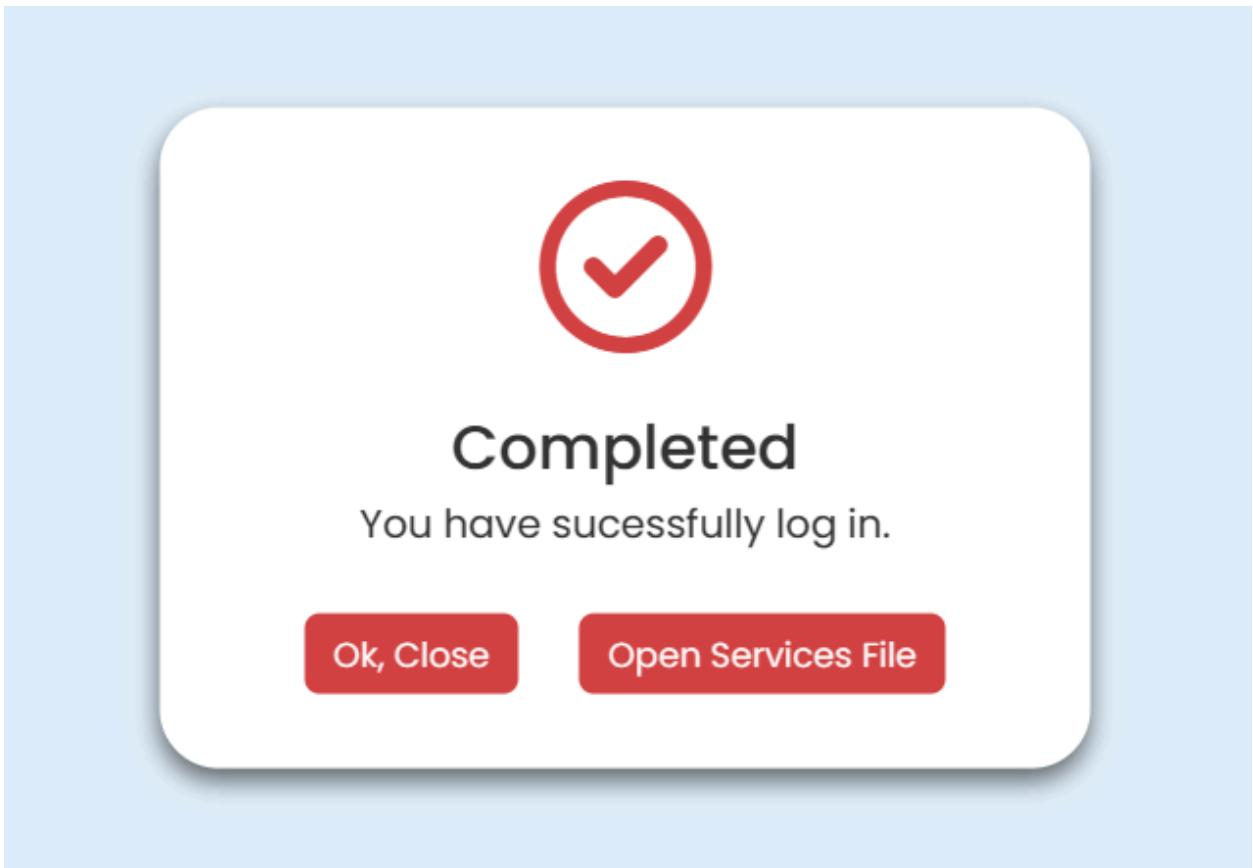


Figure 9.10 CARVEN System's completed log in page

9.11 Completed Book The Service Page :

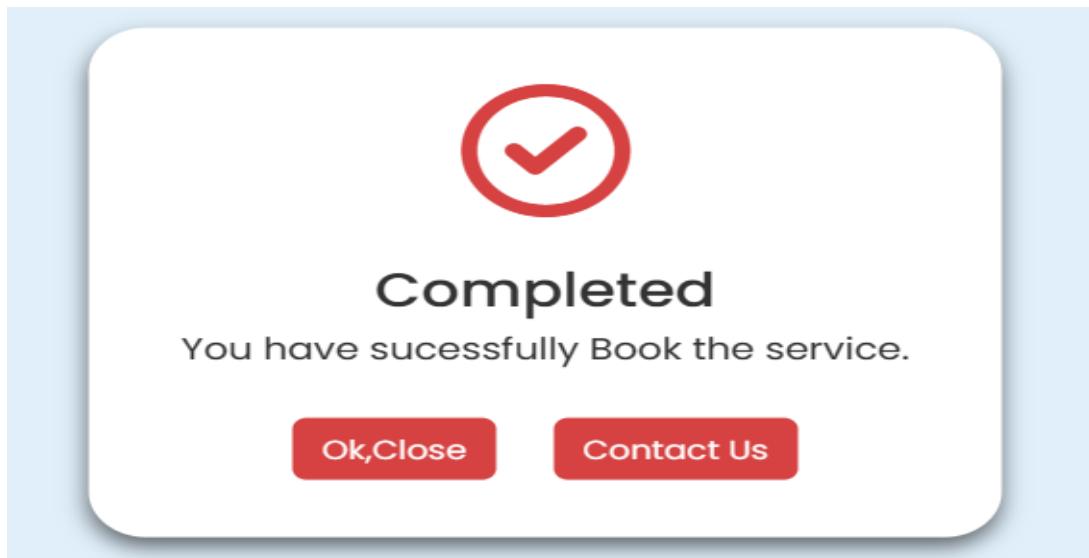


Figure 9.11 CARVEN System's completed booked service page

9.12 CARVEN POLL:

We conducted a survey for our project. The survey included several questions, and based on the answers, we identified the services that our application will provide.

We have noticed that the most requested services were maintenance services, whether immediate or listing repair shops and their locations.

We also noticed that most of the participants in this survey were from the West Bank cities. Therefore, our project focused on allowing users to choose the address they want, and based on their choice, a list of available services in the pre-selected address will appear.

9.12.1 Poll Screenshots :

The screenshot shows a poll application interface. At the top, it says "CARVEN APPLICATION POLL". Below that is a question in Arabic: "استطلاع رأي حول مدى حاجة تطبيق مشروع عنا على ارض الواقع حيث يهتم مشروع عنا بمساعدة السائقين اذا واجهتهم مشاكل على الطرقات او ارادوا الحصول على اي خدمة متعلقة بالمركبات". Underneath the question, there is an email address "jojoj6854@gmail.com" and a "Switch account" link. A "Not shared" icon is also present. A note at the bottom indicates "* Indicates required question".

GENDER *

MALE
 Female

Address *
العنوان

Your answer _____

Do you own a car or any other type of vehicle? *

هل تمتلك سيارة او نوع اخر من المركبات؟

YES

NO

"Have you had any previous issues with your vehicle? *

هل واجهت مشاكل سابقة مع مركبك؟

Yes

No

Mention the type of issue you have faced before with your vehicle *

ادكر نوع المشكلة التي واجهتك من قبل مع مركبك

Your answer

Are you having difficulty finding the phone numbers of car maintenance places near you or in the nearby area? Or are you having trouble finding locations for vehicles, such as buying, selling, renting, and accessories? *

هل تواجه صعوبة في معرفة ارقام هواتف اماكن صيانة السيارات القريبة منك او من المنطقة الفريبة منك؟

او هل تواجه صعوبة في معرفة الاماكن الخاصة بالمركبات من بيع وشراء وتأجير وكماليات؟

YES

NO

Are you having difficulty getting quick maintenance services? *

هل تواجه صعوبة في الحصول على خدمات الصيانة السريعة؟

Yes

No

Do you often have credit available to make a call to request maintenance services or any other vehicle-related services? *

هل غالبا ما يتتوفر لديك رصيد لإجراء مكالمة لطلب خدمات الصيانة او اي خدمات اخرى تخص المركبات؟

YES

NO

What do you think about providing an application or a website that deals with everything related to vehicles? *

ما رأيك بتوفير تطبيق او صفحة الكترونية تهتم بكل شيء يخص المركبات؟

YES

NO

Do you want to provide specific services or anything related to vehicles? *

هل تريد توفير خدمات او اي شيء معين يخص المركبات؟

YES

NO

Do you have another opinion? *

هل لديك رأي اخر؟

اذكر نوع الخدمة التي ترغب ان يوفرها تطبيقنا

Your answer

Do you have another opinion? *

هل لديك رأي اخر؟

اذكر نوع الخدمة التي ترغب ان يوفرها تطبيقنا

Your answer

Do you think the application meets your needs? *

هل تعتقد أن التطبيق سوف يلبي احتياجاتك؟

YES

NO

Submit

Clear form

Never submit passwords through Google Forms.

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Google Forms

Figure 9.12.1 CARVEN System's poll page

9.12.2 Poll Results Screenshots :

39 responses

 Link to Sheets



Accepting responses

Summary

Question

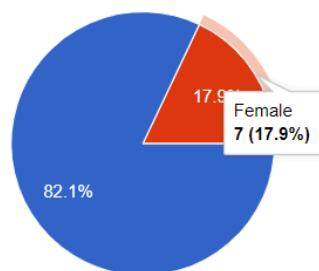
Individual

GENDER

39 responses

 Copy

● MALE
● Female

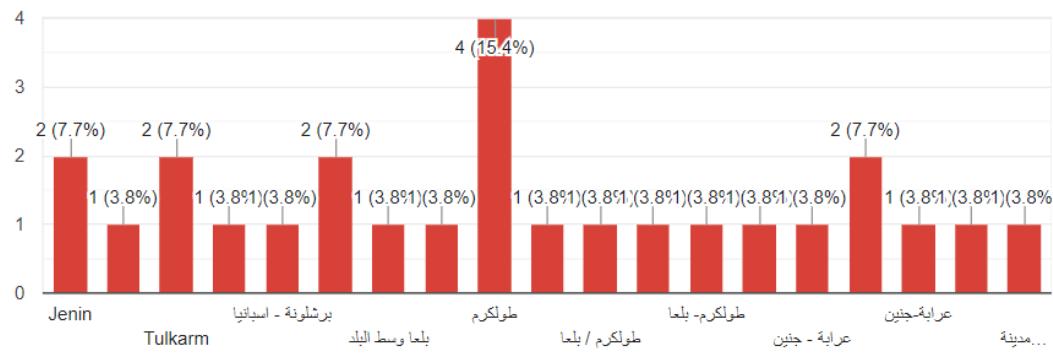


Address

المدن

26 responses

 Copy

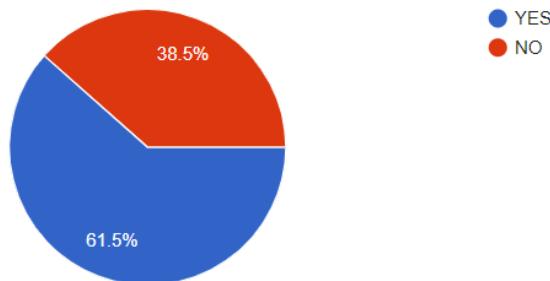


Do you own a car or any other type of vehicle?

هل تمتلك سيارة او نوع اخر من المركبات؟

39 responses

 Copy



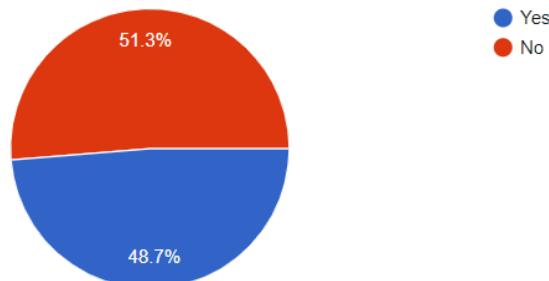
● YES
● NO

"Have you had any previous issues with your vehicle?

هل واجهت مشاكل سابقة مع مركبتك؟

39 responses

 Copy



● Yes
● No

Mention the type of issue you have faced before with your vehicle

اذكر نوع المشكلة التي واجهتك من قبل مع مركبتك

25 responses

إطار السيارة فتح 

نفاذ الوقود

عطل في مضخة الوقود

تعطل المركبة بشكل مفاجئ بسبب تقطّع في تلك الوقود

فتح المساطر

فرط الجير

ضرب الكثيبر

نفاذ شحن السيارة

Mention the type of issue you have faced before with your vehicle

اذكر نوع المشكلة التي واجهتك من قبل مع مركبتك

25 responses

انكسر الدراي شفط

تعطل محرك السيارة بسبب قطع فشاظ التaimindk مما يمنعها من السير

مشكلة في المكيف

تعطل وللنقطاع في الطريق

لا املك مركبة

تعطل المكيف وارتفاع حرارة السيارة

مركبة كيا ٢٠٠٧ مشكلة عدم دوران المحرك من اول مرة والسبب كان السيلف تكرر الأمر اكثر من كره

لم اواجه

Mention the type of issue you have faced before with your vehicle

اذكر نوع المشكلة التي واجهتك من قبل مع مركبتك

25 responses

تعطل في محرك السيارة

ماتور

ارتفاع حرارة الماتور

النقطاع سبخ الجلش

لا يوجد

ثقب عجل السيارة على طريق زعترة

مسك المحرك

Figure 9.12.2 CARVEN System's poll result page

CHAPTER TEN:RECOMMENDATIONS AND CONCLUSIONS .

10.1 Limitations :

A number of limitations were encountered. They include; the time given to complete the project was limited given that the researcher had other tasks to perform on the side. Learning of new technologies in order to come up with a good system also took part of the system development time.

10.2 Recommendations :

There is a need for people to take initiative to be computer literate in order to familiarize with these technologies and appreciate them.CARVEN staff need to undergo training in order to acquire basic skills in information technology which will enable them to use the CARVEN services management system.

Most establishments specializing in providing all types of vehicle services across the country should embrace the trend of automating their services. This system should be expanded to include other service units, such as the engine repair unit, car wash unit, car decoration unit, and many other service units that we hope will join the CARVEN family.

10.3 Conclusion :

The availability of new technology has made it possible to automate almost all of the services offered in almost every aspect of life. The library is no exception to this great idea; And hence it comes with a fair number of advantages when all of the activities that take place in it are automated.

New jobs will always be created as a result of automation. Employees will always be excited to work with the new automated systems, as a lot of paperwork is eliminated and jobs and services are only concentrated within the limits of clicking the mouse and entering data into the system. Costs are incurred only once; When buying the system and training the employees. Users have easy access to the system from their comfortable locations as it is web based. The cost-benefit analysis of the system also shows that it generates more revenue than expenses and therefore the system is economically viable.

CHAPTER ELEVEN:TEAM WORK.

11.1 Project Timeline:

We have divided the time available to us according to our study schedule and our exam schedule. We intensified the work in the free time available to us and held Zoom meetings to discuss the completed work, determine the upcoming work and divide it between us equally and in a way that suits our time. The work was completed as follows.

TIME	COMPLETED PROJECT WORK
<u>March</u> 1. Last week	<ol style="list-style-type: none">1. Finishing Chapter-One of the project.2. We had two Zoom meetings this week .
<u>April</u> 1. Week one 2. Week two 3. Week three 4. Week four	<ol style="list-style-type: none">1. Finishing login page for website and application by using web development languages(FRONTEND languages like HTML,CSS,JS) .2. List the Palestinian cities and the most famous car companies and maintenance shops in each region.3. Finishing Chapter-Two with all sections.4. Start working on Chapter-Three and finish it .5. Finishing Chapter-Four .6. We had five Zoom meetings this month .
<u>May</u> 1. Week one 2. Week two 3. Week three 4. Week four	<ol style="list-style-type: none">1. Finishing chapter five , six ,seven.2. Finishing all diagrams for these chapters.3. Finishing chapter eight ,nine, ten .4. Finishing all diagrams for these chapters .5. Finishing all web work by using HTML,CSS,JS web languages.6. We had our last Zoom meeting, where this meeting discussed all the final details of the project.

11.2 Team Member Work :

Our team worked smoothly and cooperatively, and we completed the project sections by dividing the tasks among us according to the skills of each person. This method enhances effective participation, strong communication, and the successful completion of high-quality projects. Additionally, individual contributions are documented to track the work done by each member. In short, the team members worked hand in hand to complete the task, and each individual performed the assigned tasks to the best of their ability.

MEMBER NAME	WORK DONE BY
Omair Draidi	<ul style="list-style-type: none">● Cover design.● Designing all diagrams within the project● Formatting text and fonts● Design the logo and choose the appropriate colors and themes for the project.● Contribute to writing each of the sections in this chapter.● Conduct research on the project idea to evaluate its feasibility and ability to continue.● Verify the effectiveness and importance of the proposed idea.● Verify project integrity● Doing a poll and determining which services you need in our project.
Hiba Obead	<ul style="list-style-type: none">● Give the project idea and show all the advantages and purpose of the project.● - Conducting all linguistic and editorial checks for the project.● Perform all clerical tasks and coordinate the project sequentially.● Prepare a complete research on the idea, its objectives, benefits, and the importance of its implementation.● In general, provide a complete and illustrated research on the importance of the proposed idea.● Writing all sections and chapters of the project using Google Docs.● Doing all the web work● Choose the appropriate color theme for the application and project

CHAPTER TWELVE:DENOUEMENT.

We are confident that our project effectively addresses all the topics covered in the Software Engineering course. We'd especially like to express our sincere gratitude to Dr. Nael Salman, our esteemed instructor, for his invaluable guidance and support throughout this project. We welcome your feedback and appreciate your understanding of any shortcomings you may identify.

THANK YOU