

# Car Service Finder: Final Project Documentation

---

## Title Page

**Project Name:** Car Service Finder

**Group Name:** Team Innovators

**Team Members:**

- Jonathan Hernandez
- Shreya Jayas

**GitHub Repository:** <https://github.com/jhernande7/CSC340Project>

---

## Table of Contents

1. Introduction
  2. Use Cases Implemented
  3. Third-Party APIs Used
  4. Data Persistence
  5. Scenarios with Screenshots
  6. Group Contributions
  7. UML Models
  8. Design Document
- 

## 1. Introduction

Car Service Finder is a web-based application designed to connect customers with local car service providers. It streamlines the process of finding, reviewing, and managing car services. The system supports three types of users: Customers, Providers. Key features include user authentication, service management, and administrative tools for system oversight.

---

## 2. Use Cases Implemented

### Customer Use Cases

- **Login and Signup:** Customers can register and log into the system to access personalized services.

- **Search and View Services:** Customers can browse available car services by location and type. (hard coded)
- **Write Reviews:** Customers can write and submit reviews for services they have used.

## Provider Use Cases

- **Service Management:** Providers can create, modify, and delete services, specifying details such as service type, description, and price.
  - **Profile Management:** Providers can edit their profiles to update contact information and business details.
- 

## 3. Third-Party APIs Used

- **Google Maps API:** Used to enable location-based service searches.
  - For booking page (Vehicle Page Specifically):  
<https://vpic.nhtsa.dot.gov/api/vehicles/GetMakesForVehicleType/car?format=json>
- 

## 4. Data Persistence

### Database Schema

- **Tables:**
  - Users (ID, Name, Role, Email, Password)
  - Services (ID, ProviderID, Name, Type, Description, Price)
  - Reviews (ID, ServiceID, CustomerID, Rating, ReviewText)
  - AdminActions (ID, ActionType, Timestamp)

Data is stored in a MySQL database and accessed using Spring Boot's JPA repository. Relationships between entities are mapped using Hibernate annotations.

---

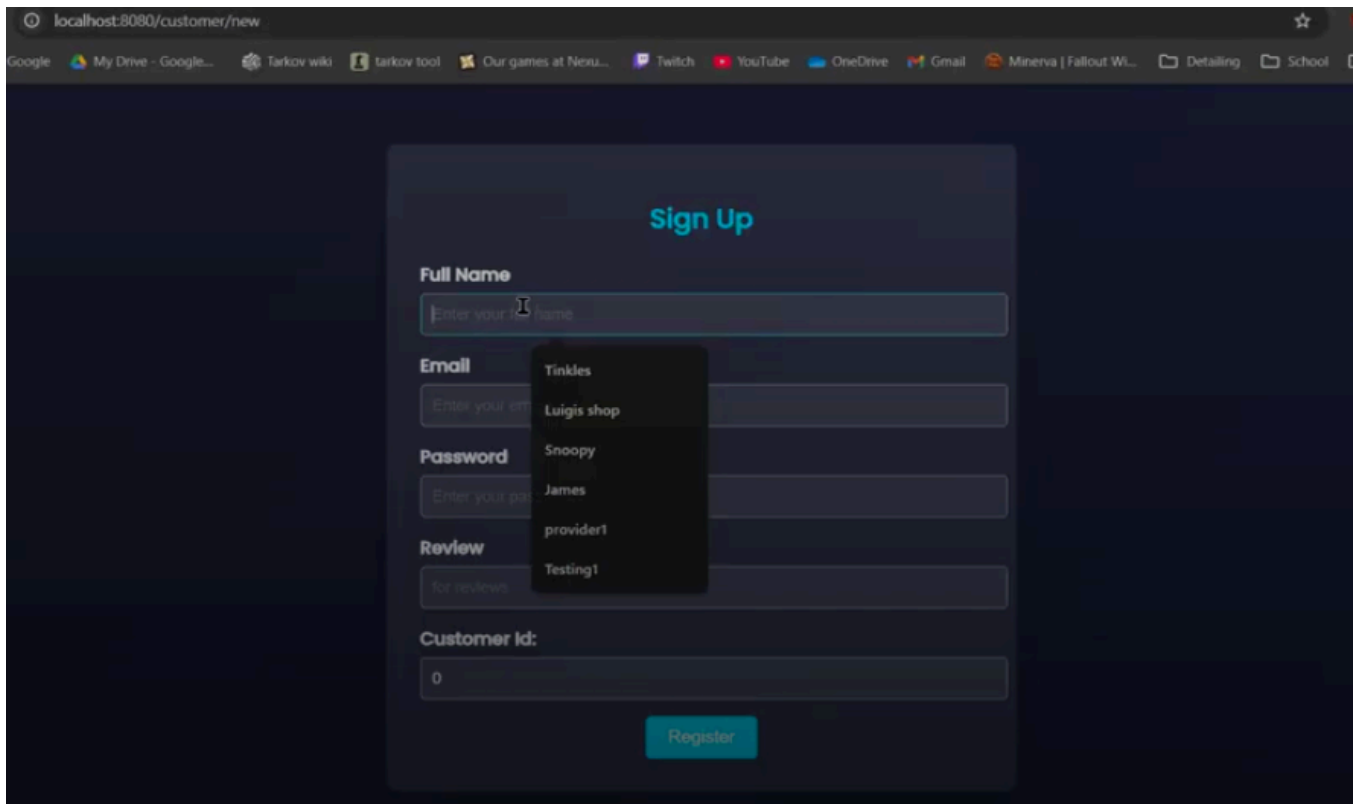
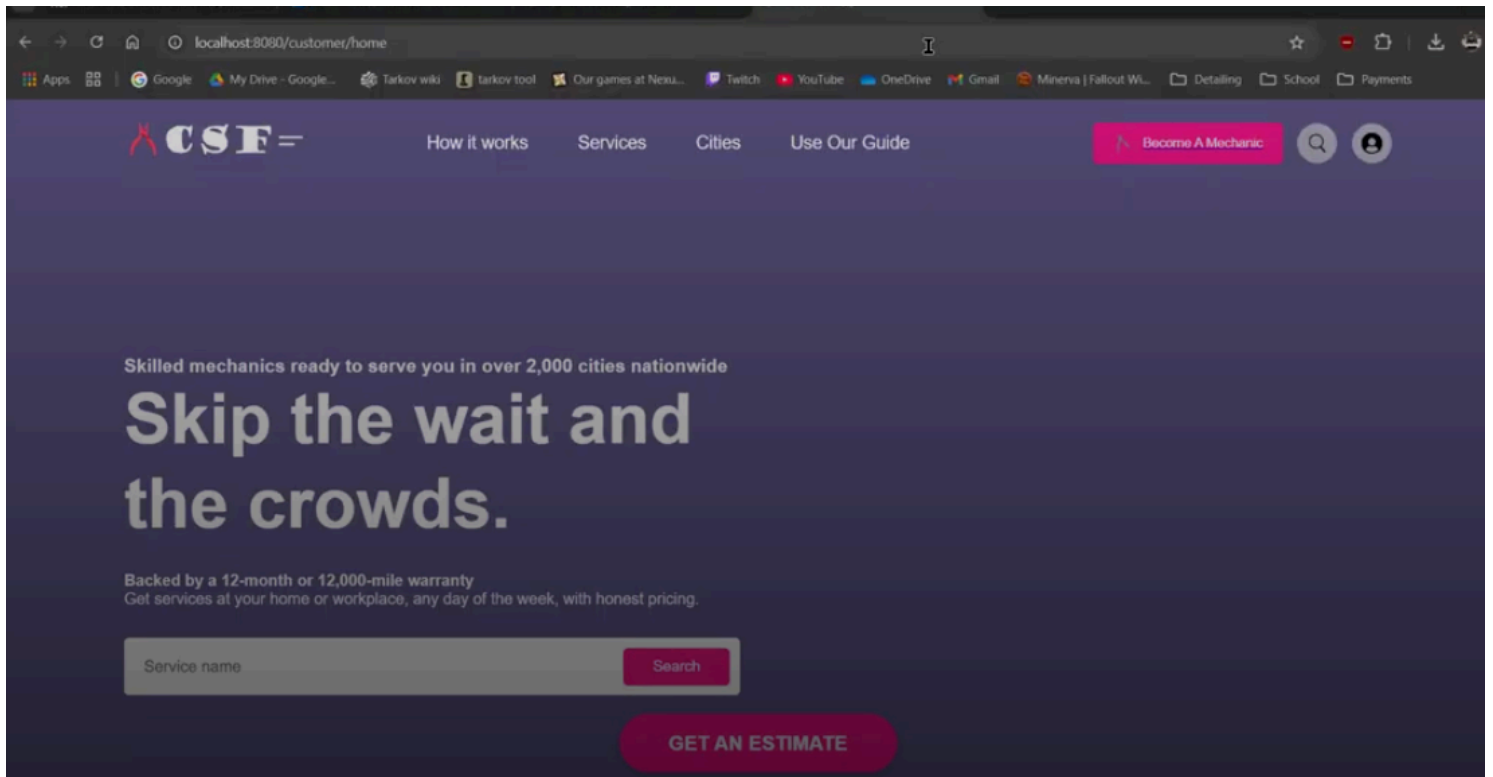
## 5. Scenarios with Screenshots

### Scenario 1: Customer Use Case - Write Reviews

1. A customer logs in and navigates to a service page.
2. The customer fills out the review form, including a star rating and text review.
3. The review is submitted, stored in the database, and displayed under the service.

*Screenshot:*

*Check Next Page:---*



## Sign Up

Full Name

greg

Email

gedasfalse

Password

gregeee

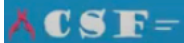
Review

For reviews:

Customer Id:

0

Register



Services

My Favorites

Resources

Welcome Back!  
greg



My Profile

Sell Services

### Ongoing Services

Total: 0

Deadline: 7 days



### Welcome to Car Service Finder

Start your journey on CSF by making your profile on [My Profile Section](#)

## Data updating in AdminMyPhp:--

The screenshot shows the AdminMyPhp database management interface. On the left is a sidebar with a tree view of databases and tables. The main area displays a table of data from the 'customerdb' database. The table has columns: id, name, email, reviews, and password. The data is as follows:

id	name	email	reviews	password
3	tommy	tommyh@uncg.edu	0	s0meThiNg
4	Jonathan	frkeshool@dld.edu	0	john1
52	Tinkles	tinkies32@yahoo.com	NULL	testing1
102	James	jamesh34@gmail.com	NULL	goopy34
152	greg	gedasfalse	NULL	gregeee

Below the table are options for 'Show all', 'Number of rows' (set to 25), 'Filter rows' (Search this table), and 'Sort by key' (None). There are also buttons for 'Edit inline', 'Edit', 'Explain SQL', 'Create PHP code', and 'Refresh'. At the bottom, there are buttons for 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'.

## Scenario 2: Provider Use Case - Create Service

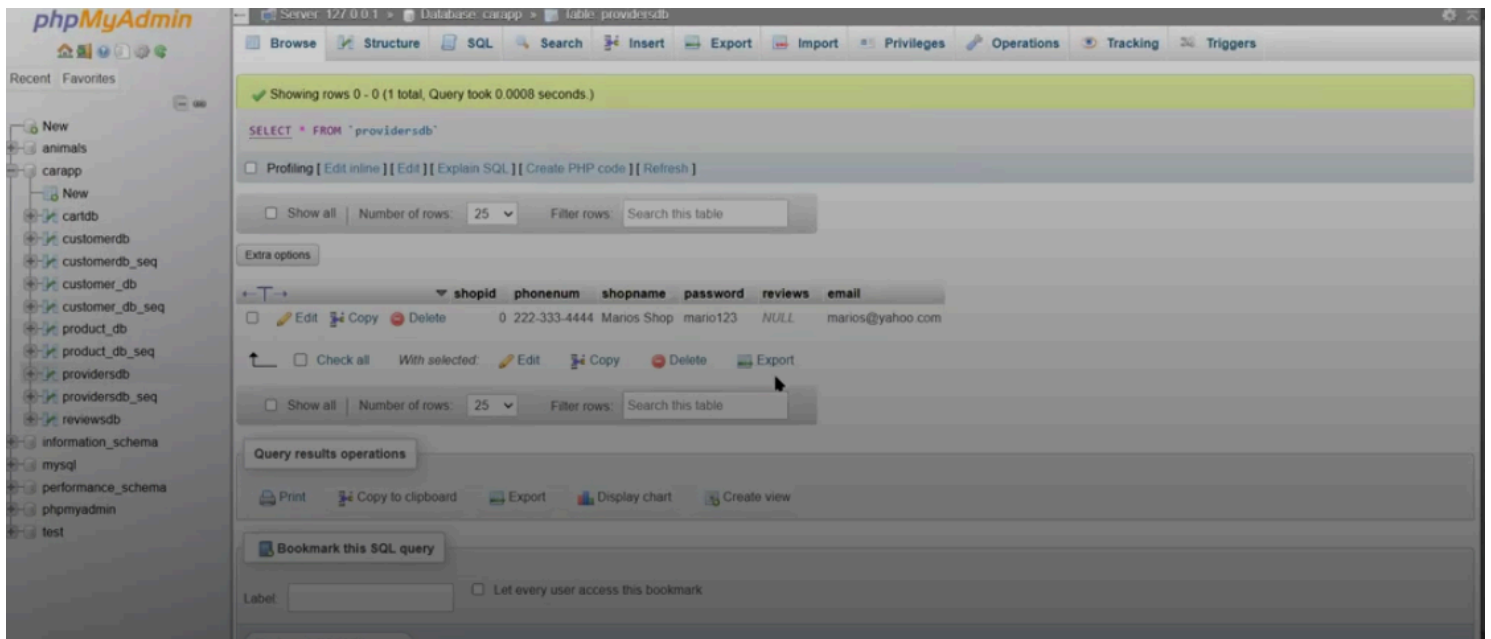
1. A provider logs into the dashboard.
2. The provider fills out the service creation form with details such as name, type, and price.
3. The service is added to the database and listed in the provider's services.

Screenshot:

The screenshot shows the CSF (Car Service Finder) dashboard for a provider named Marios Shop. The dashboard has a blue sidebar with navigation links: Dashboard, Services, Services, Portfolios, My Favourites, and Resources. The main area has a header with 'Welcome Back! Marios Shop' and buttons for 'My Profile' and 'Sell Services'. Below the header are four summary cards:

- Earnings**: Lifetime: \$0, This Month: \$0
- Ongoing Services**: Total: 0, Deadline: 7 days
- Services Received**: This Month: 0, Last 7 Days: 0
- Profile Views**: This Month: 0, Last 7 Days: 0

Below these cards is a section titled 'Welcome to Car Service Finder' with a cartoon character and the text 'Start your journey on CSF by making your profile on [My Profile Section](#)'.

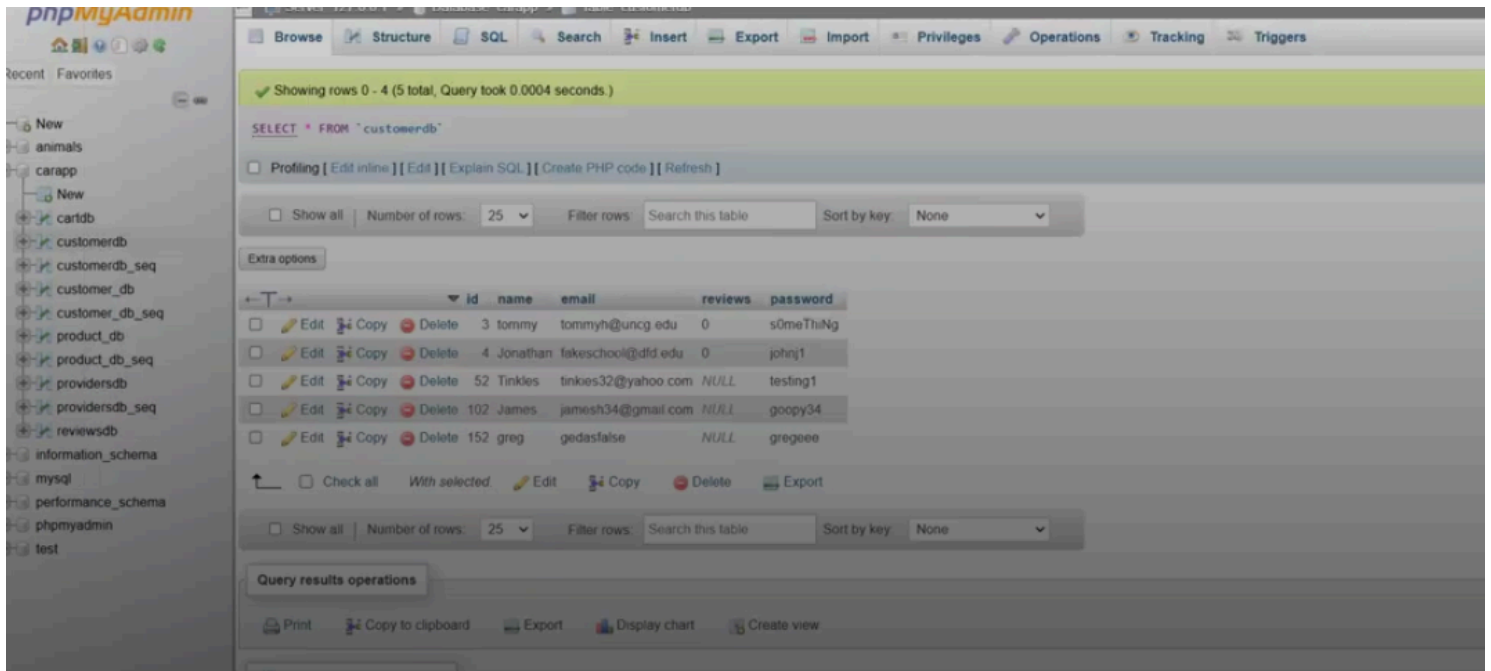


### Scenario 3: Users Can edit their Profile

Screenshot:

Img 1: Showing the data in database (Status: Info not chaged)

Before:



Img 2: Updating data in Customer form (localhost:8080/customer/update/3)

localhost:8080/customer/update/3

Google My Drive - Google... Tarkov wiki tarkov tool Our games at Nexu... Twitch YouTube OneDrive Gmail Minerva | Fallout Wi... Detailing School Payments

### Sign Up

**Full Name**  
tommy hilfigure

**Email**  
tommyh@gmail.com

**Password**  
changedPass

**Review**  
0

**Customer Id:**  
3

Register

Status: Info Updated

localhost:8080/customer/profile/3

Apps Google My Drive - Google... Tarkov wiki tarkov tool Our games at Nexu... Twitch YouTube OneDrive Gmail Minerva | Fallout Wi... Detailing School Payments

**CSF =**  
Services  
My Favorites  
Resources

## Welcome Back!

tommy hilfigure

My Profile Sell Services

**Ongoing Services**  
Total: 0  
Deadline: 7 days

**Welcome to Car Service Finder**  
Start your journey on CSF by making your profile on [My Profile Section](#)

*Database Status: Updated, uncg.edu changed to gmail.com, The last name added followed by a space*

The screenshot shows the phpMyAdmin interface for a database named 'carapp'. The 'customerdb' table is selected, and the SQL query 'SELECT \* FROM `customerdb`' is executed. The results show 5 rows. The first row (id 3) shows a user named 'tommy hillfigure' with email 'tommyh@gmail.com' and password 'changedPass'. The other rows are Jonathan, Tinkles, James, and greg.

id	name	email	reviews	password
3	tommy hillfigure	tommyh@gmail.com	NULL	changedPass
4	Jonathan	fakeschool@dfid.edu	0	johnj1
52	Tinkles	tinkies32@yahoo.com	NULL	testing1
102	James	jamesh34@gmail.com	NULL	goopy34
152	greg	gedasfalse	NULL	gregeee

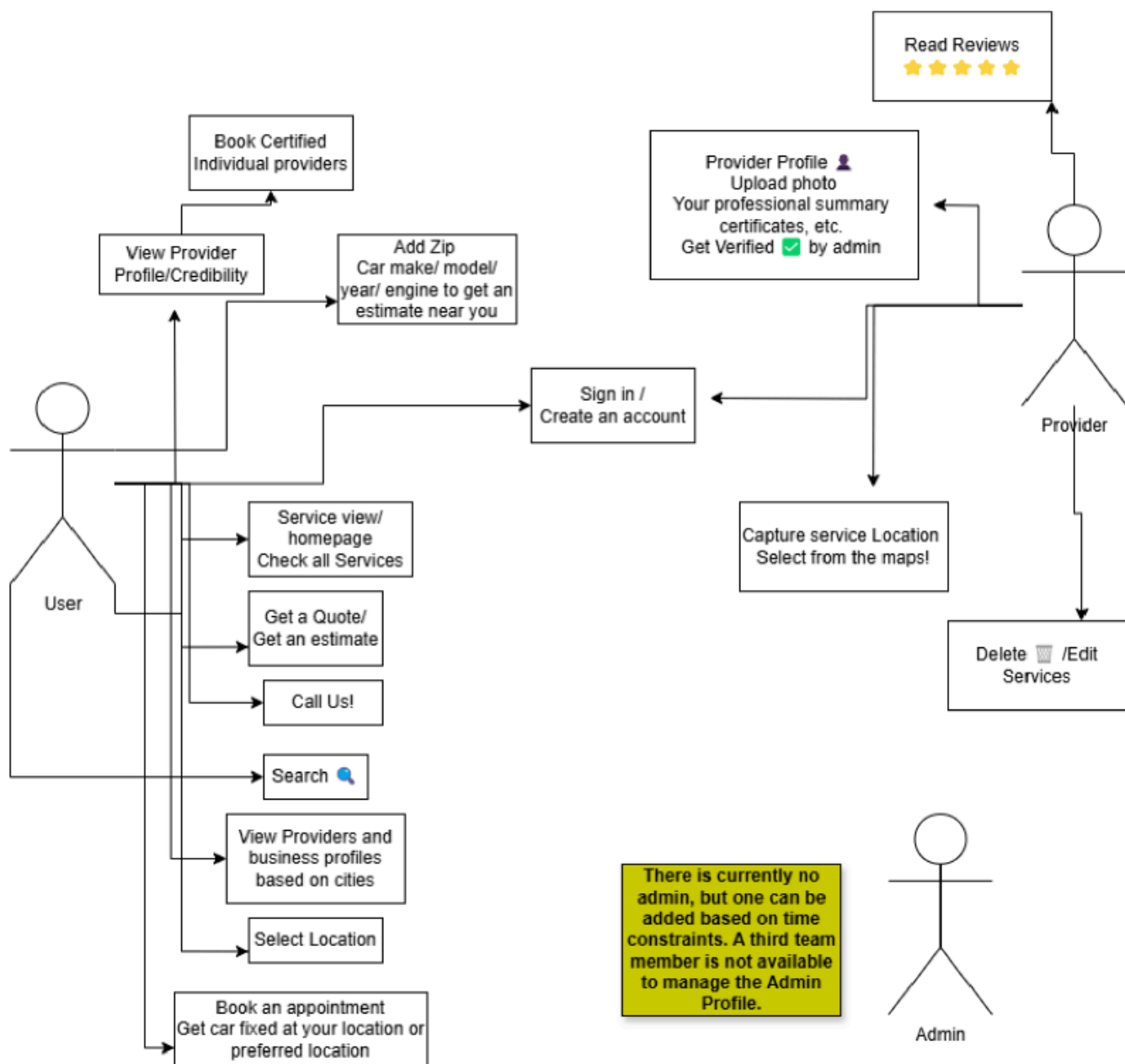
## 6. Group Contributions

- **Jonathan Hernandez:** Customer use cases, including login, signup, reviews and more.
- **Shreya Jayas:** System testing, front-end design, and more.

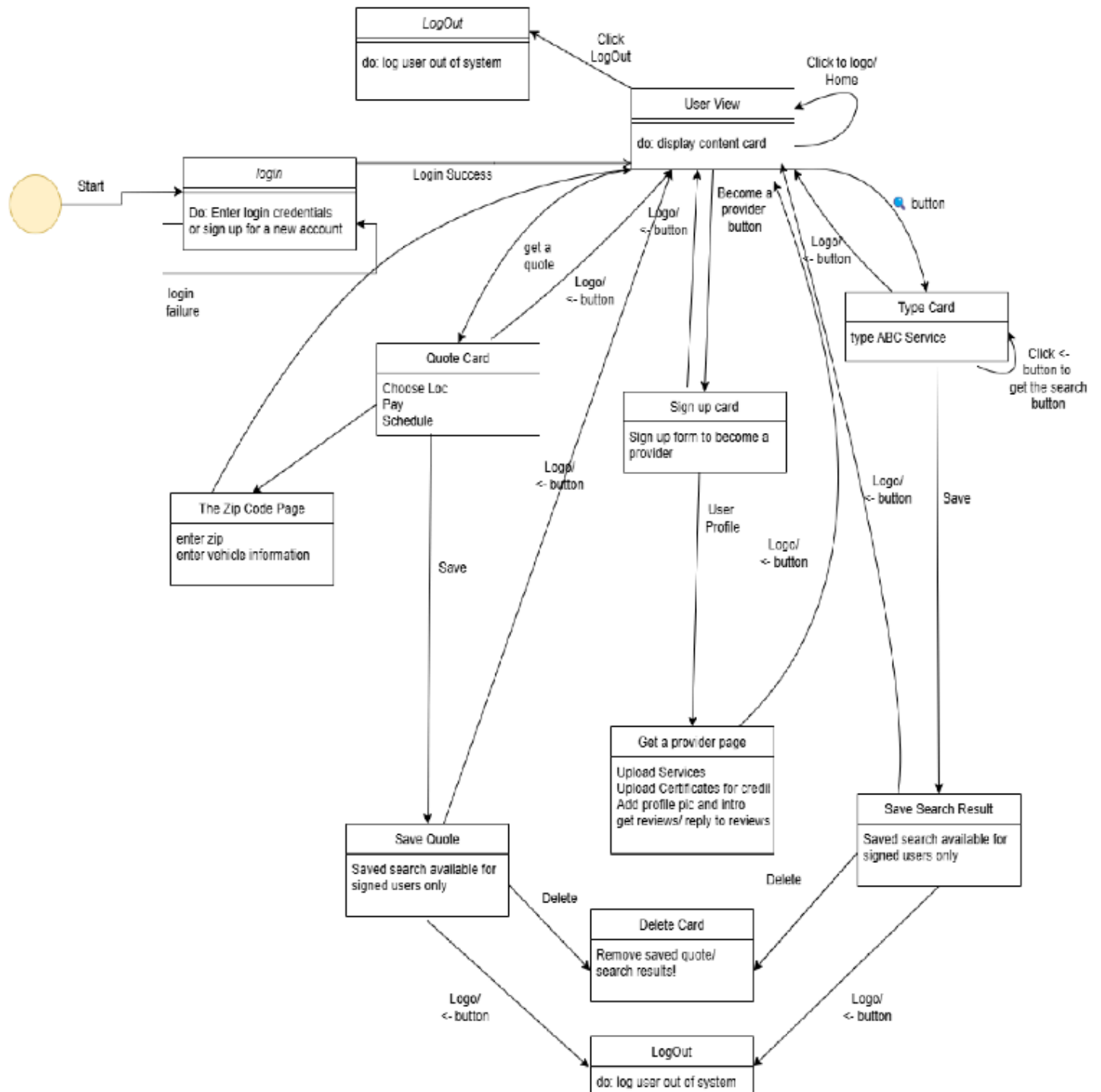


## 7. UML Models

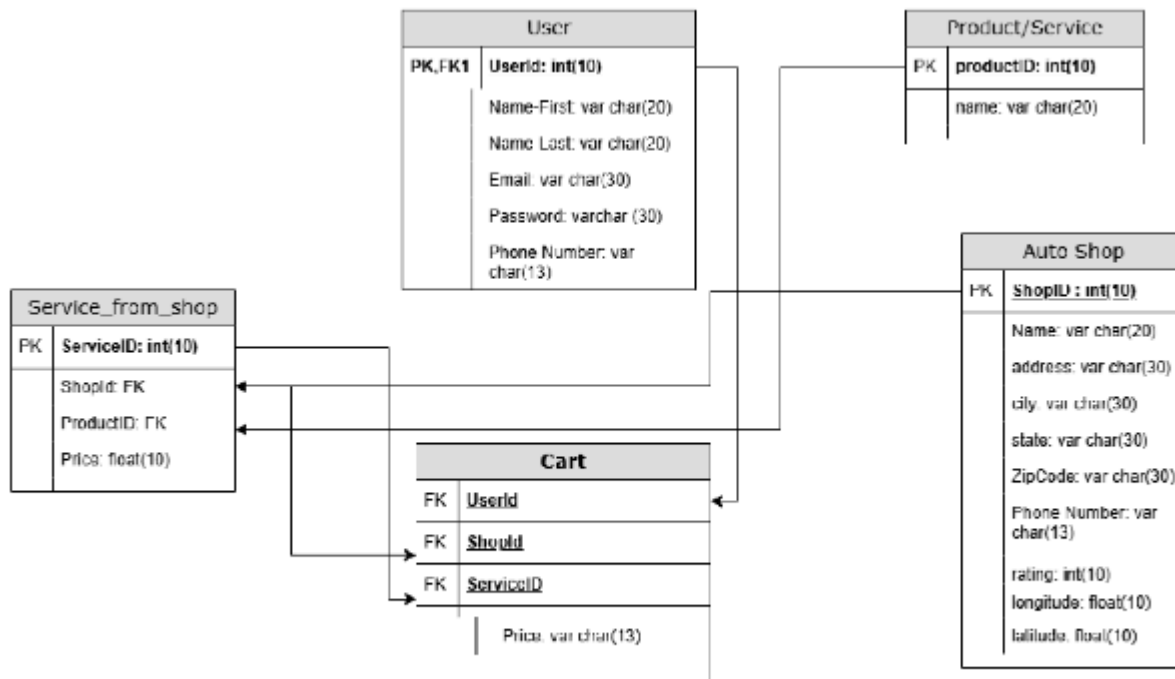
### Use Case Diagram



## Class Diagram



## Database Schema



---

## 8. Design Document

The design document outlines the system architecture, data flow, and key modules. Feedback from the initial submission has been incorporated to address performance and usability improvements.

---