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# RIDE AND DRIVE

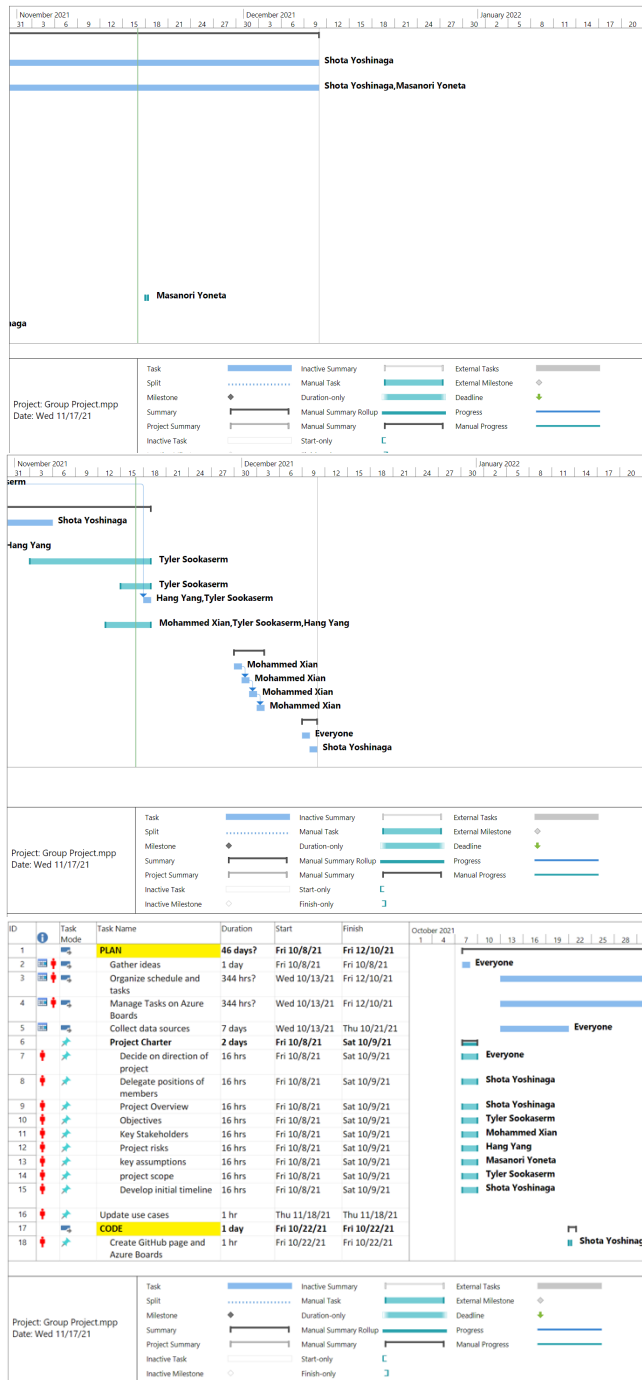
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Shota Yoshinaga, Tyler Sookaserm, Hang Yang, Masanori Yoneta, Mohammed  
Xian



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# Project Charter

## Project Information

- Project Name: Car Search
- Project Team Members:
  - Mohammed Xian- Product Owner, Ui Designer, Tester
  - Shota Yoshinaga – Project Leader/Developer
  - Masanori Yoneta – Analyst
  - Hang Yang – Database Administrator
  - Tyler Sookaserm – Project Co-Leader/ Developer
- Project Team Name: Ride and Drive

## Project Overview

The basic role of this project will be to foster a site to offer used and new vehicles for Mohammed and others to use to observe one to be a viable spot to purchase and sell cars. The websites that Mohammed has utilized do not have needed components and additionally effectiveness in working. Therefore, this project will add a variety of features and navigate it effectively with full customer satisfaction and user friendly.

Mohammed would like to create a team testing the accessibility and functionality of the website and provide their feedback to ensure the product is delivered and executing as expected.

## Objectives

The site will provide the following functionality:

- Allow users to register and login
- Allow users to filter out customization they prefer for a car
- Allow users to create a list of what cars they like
- Allow users to post a review on a car and dealership
- Allow users to make an appointment for test drives
- Allow users to see past information for used cars
- Allow users to get prequalified for financing with banks.
- Allow anonymous users to access the ‘public’ sector of the site
- Allow users to share their on-site feedback operation and car transaction
- Dashboard for logged users

## Key Stakeholders

Stakeholder Name (or Role Name)	Impact / Role in the Project
Mohammed Xian	Mohammed is the proprietor and serves as the Product Owner for this project/product. Therefore, he will have full authority to select the features and the direction of the development of the project/product.
User community	We will need to have feedback from users to improve our website regularly and keep it efficient. We will also have a special team testing the accessibility and functionality of the website and provide their feedback to ensure the product is delivered as expected.

## Project Risk

**Limited schedule:** We all take different classes, and we all have things to do outside of class.

**Resource:** The whole team will have many responsibilities throughout the semester, not just this project, so the development resources will be stretched thin.

**Cost:** The project will not cost anything.

**Time:** Shota will be leading the development effort as part of a class project, so the project must be done within a semester.

**Time:** Tyler works from Sunday to Thursday, so he is limited in his time to work on the project when needed.

## Key Assumptions

- Shota has good leadership, can lead everyone together and can complete the product efficiently.
- The application will be completed within one semester so that customers can use all functions as soon as possible.
- Tyler used to be a car dealer, so he is familiar with customers' needs for cars so that he can understand the requirements from the customer's perspective.
- The members of Tyler's team have adequate analytic and computer skills to create an application using C#.

## Project Scope

### In-scope

- Arkansas and surrounding states
- Access to car data from provided sources in the state of Arkansas to improve user experience on the website.

### Out-of-scope

- Cars outside of those states
- Additional paid access to features

## Project Plan

ID	Duration	Start	Finish	Resource Names	October 2021	November 2021	December 2021	January 2022
1	47 days?	Fri 10/8/21	Fri 12/10/21		28   3   8   13   18   23   28   2   7   12   17   22   27   2   7   12   17   22   27   1   6   11   16   21   26			
2	1 day	Fri 10/8/21	Fri 10/8/21	Everyone				
3	344 hrs?	Thu 10/14/21	Fri 12/10/21	Shota Yoshinaga				
4	344 hrs?	Thu 10/14/21	Fri 12/10/21	Shota Yoshinaga,Masanori Yoneta				
5	7 days	Wed 10/13/21	Thu 10/21/21	Everyone				
6	2 days	Fri 10/8/21	Sat 10/9/21					
7	16 hrs	Fri 10/8/21	Sat 10/9/21	Everyone				
8	16 hrs	Fri 10/8/21	Sat 10/9/21	Shota Yoshinaga				
9	16 hrs	Fri 10/8/21	Sat 10/9/21	Shota Yoshinaga				
10	16 hrs	Fri 10/8/21	Sat 10/9/21	Tyler Sookaserm				
11	16 hrs	Fri 10/8/21	Sat 10/9/21	Mohammed Xian				
12	16 hrs	Fri 10/8/21	Sat 10/9/21	Hang Yang				
13	16 hrs	Fri 10/8/21	Sat 10/9/21	Masanori Yoneta				
14	16 hrs	Fri 10/8/21	Sat 10/9/21	Tyler Sookaserm				
15	16 hrs	Fri 10/8/21	Sat 10/9/21	Shota Yoshinaga				
16	1 hr	Thu 11/18/21	Thu 11/18/21	Masanori Yoneta				
17	1 day	Fri 10/22/21	Fri 10/22/21					
18	1 hr	Fri 10/22/21	Fri 10/22/21	Shota Yoshinaga				

ID	Duration	Start	Finish	Resource Names	October 2021	November 2021	December 2021	January 2022
					28   3   8   13   18   23   28	2   7   12   17   22   27   2	7   12   17   22   27	1   6   11   16   21   26
19	1 day	Fri 10/22/21	Fri 10/22/21	Tyler Sookaserm		Tyler Sookaserm		
20	44 days	Thu 10/7/21	Mon 12/6/21					
21	22 days	Thu 10/7/21	Fri 11/5/21	Shota Yoshinaga		Shota Yoshinaga		
22	1 day	Thu 10/28/21	Thu 10/28/21	Hang Yang		Hang Yang		
23	12 days	Wed 11/3/21	Thu 11/18/21	Tyler Sookaserm		Tyler Sookaserm		
24	4 days	Mon 11/15/21	Thu 11/18/21	Tyler Sookaserm		Tyler Sookaserm		
25	1 day	Thu 11/18/21	Thu 11/18/21	Hang Yang,Tyler Sookaserm		Hang Yang,Tyler Sookaserm		
26	5 days	Sat 11/13/21	Thu 11/18/21	Mohammed Xian,Tyler Sookaserm,H		Mohammed Xian,Tyler Sookaserm,H		
27	1 day	Tue 11/30/21	Tue 11/30/21	Everyone		Everyone		
28	2 days	Wed 12/1/21	Thu 12/2/21	Everyone		Everyone		
29	1 day	Mon 12/6/21	Mon 12/6/21	Hang Yang,Shota Yoshinaga		Hang Yang,Shota Yoshinaga		
30	2 days	Mon 12/6/21	Tue 12/7/21					
31	1 day	Mon 12/6/21	Mon 12/6/21	Mohammed Xian,Tyler Sookaserm,H		Mohammed Xian,Tyler Sook		
32	1 day	Mon 12/6/21	Mon 12/6/21	Mohammed Xian,Tyler Sookaserm,H		Mohammed Xian,Tyler Sook		
33	1 day	Tue 12/7/21	Tue 12/7/21	Mohammed Xian,Tyler Sookaserm,H		Mohammed Xian,Tyler Sook		
34	1 day	Mon 12/6/21	Mon 12/6/21	Mohammed Xian,Tyler Sookaserm,H		Mohammed Xian,Tyler Sook		
35	2 days	Thu 12/9/21	Fri 12/10/21					
36	1 day	Thu 12/9/21	Thu 12/9/21	Everyone		Everyone		
37	1 day	Fri 12/10/21	Fri 12/10/21	Shota Yoshinaga		Shota Yoshinaga		

## Screen Recommendations

- Login
- Homepage

### Buyer Screens:

- Search vehicle screen
  - Filter vehicles
    - Text boxes to search based on make, model, year, condition, price, etc....
    - Dates you need and exclude vehicles that are already reserved for those dates
    - Option to create a reservation
- Reservation screen
  - This screen would also be available to click on in a menu somewhere so buyers can manage reservations they have already created.
  - Show if you have any current reservations
  - Input dates
  - Modify dates
  - Confirm button
  - Error message if the vehicle is already booked for the dates, you chose
- Car information screen
  - Price
  - Location
  - Overall review of the car
- Modify profile
  - This screen is where logged users can modify their personal information.
- Review Screen
  - Rating (1 to 5)
  - Textbox to input a review/comment for test drives and sellers
  - Submit button

### Worker Screen:

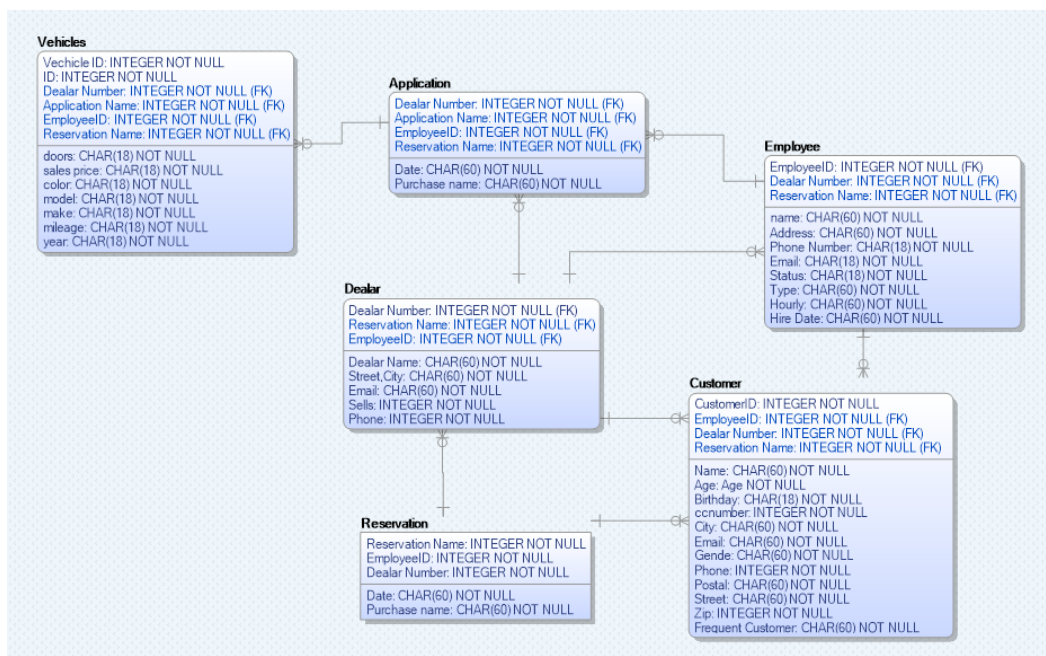
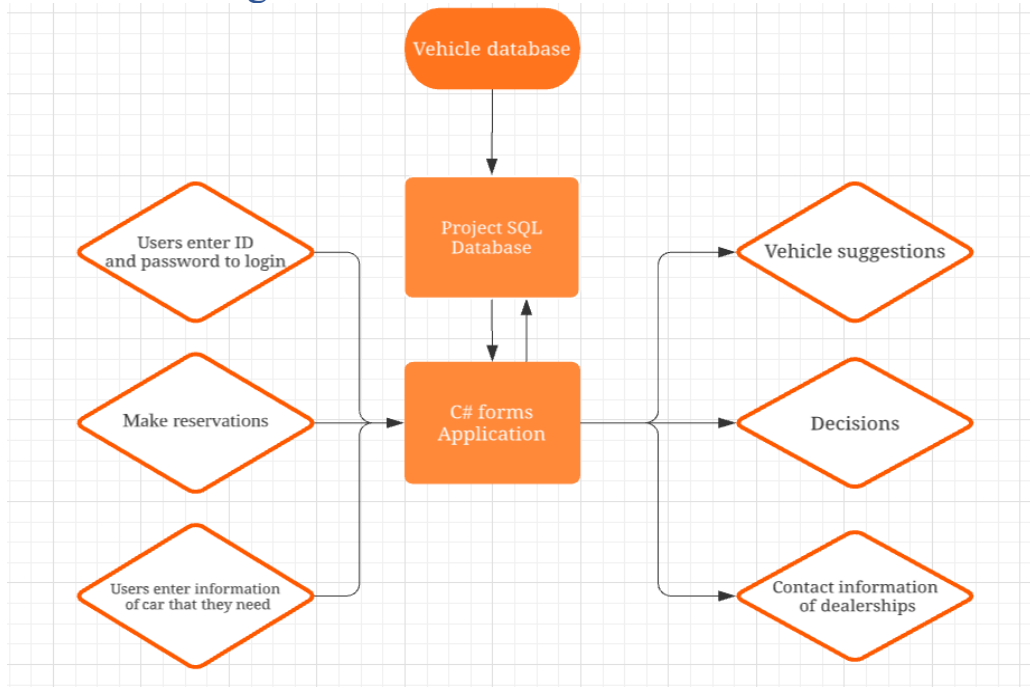
- Add new car information into application
  - Examples would be Make, Model, Year, Condition, Price, etc.



## System Requirements

- A Login for users
  - Allow users to log in with a unique username and password
  - Have users have access to only their profile
- Ability for workers to add new car information into the application.
  - Examples would be Make, Model, Year, Condition, Price, etc.
- Allow the users to filter through which car they would like
  - Filter by Make, Model, Year, Condition, Price, etc.
  - Users can add their favorite cars to a list or unadd.
  - Set up appointments for test drives
- The ability for the user to leave a review on cars
  - Cars can be rated 1 through 5, and a written review can be left as well.
- A display screen for users to buy a car
  - It will show how much the vehicle is
  - Where the car will be located
  - An overall review of their purchase
- Have the user the ability to create a reservation for a car
  - Set a date, time, and ability to edit

## Structural Diagram

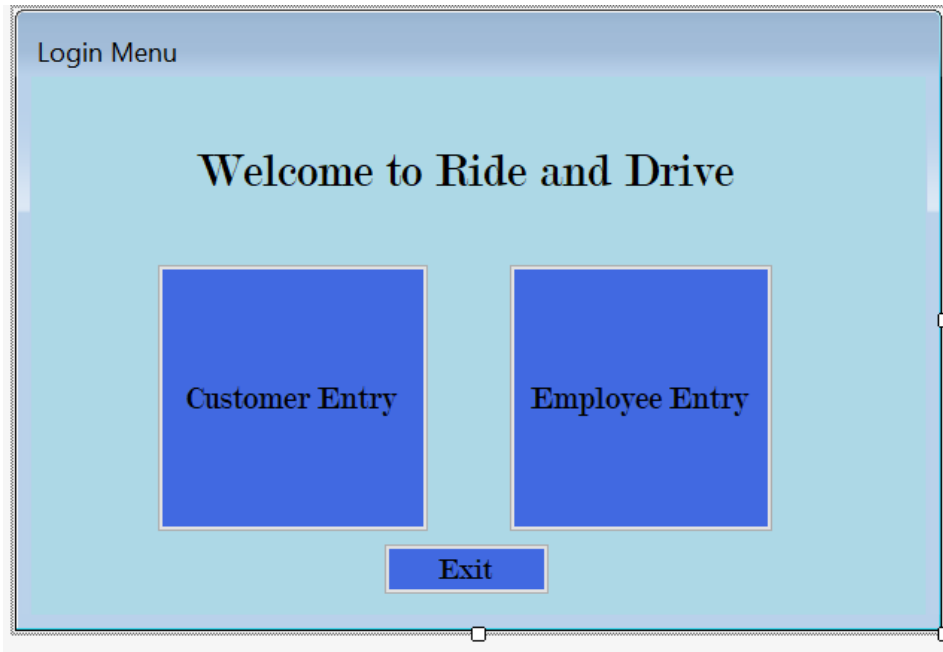


## User Stories

Customers	<ul style="list-style-type: none"><li>• Look for a vehicle dependent on vehicle attributes to guarantee they can select a vehicle that will address their issues or inclinations</li><li>• Save a vehicle to a list of favorites</li><li>• Remove a vehicle from the list of favorites</li><li>• Alter vehicle reservation on the off chance that itinerary items or subtleties change</li><li>• View and adjust their profile to guarantee data is precise and ready to be refreshed if profile data changes</li></ul>
Employees	<ul style="list-style-type: none"><li>• Employees can add or change vehicle options</li><li>• Adjust vehicle reservation if schedule things or nuances change</li><li>• View and change their profile to ensure information is exact and fit to be revived if profile information changes</li><li>• Employees can have access to customer profiles to be customized as per request</li></ul>
Dealers	<ul style="list-style-type: none"><li>• Ability to see what cars they have available</li><li>• See what reservations they have lined up from customers</li><li>• Change car specification if a car need updating or if car specs are posted wrong</li></ul>
Stakeholders	<ul style="list-style-type: none"><li>• Alter representative profile to guarantee data is exact and capable of being updated if profile information changes</li></ul>

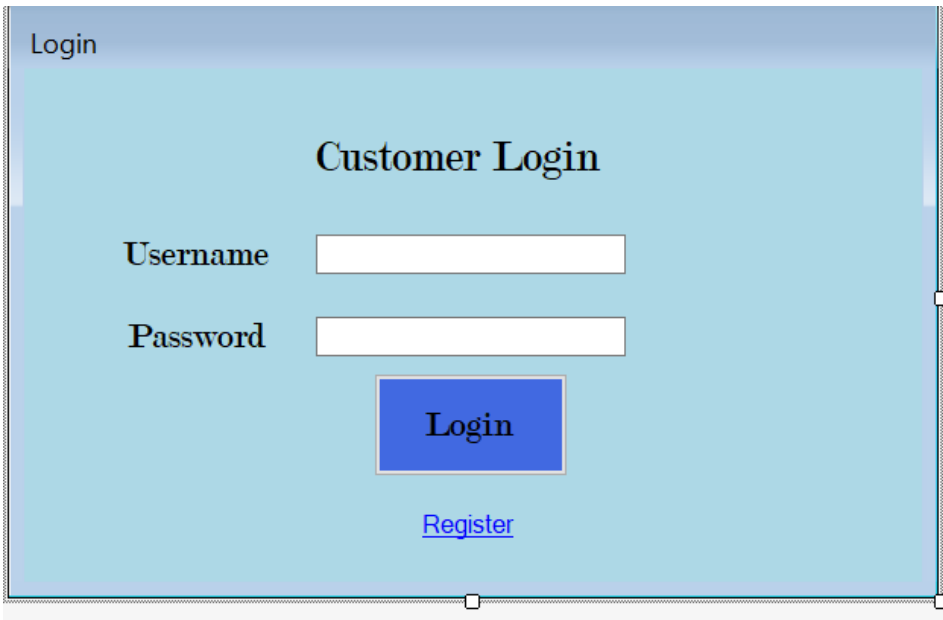
## User Interface

- Main Menu



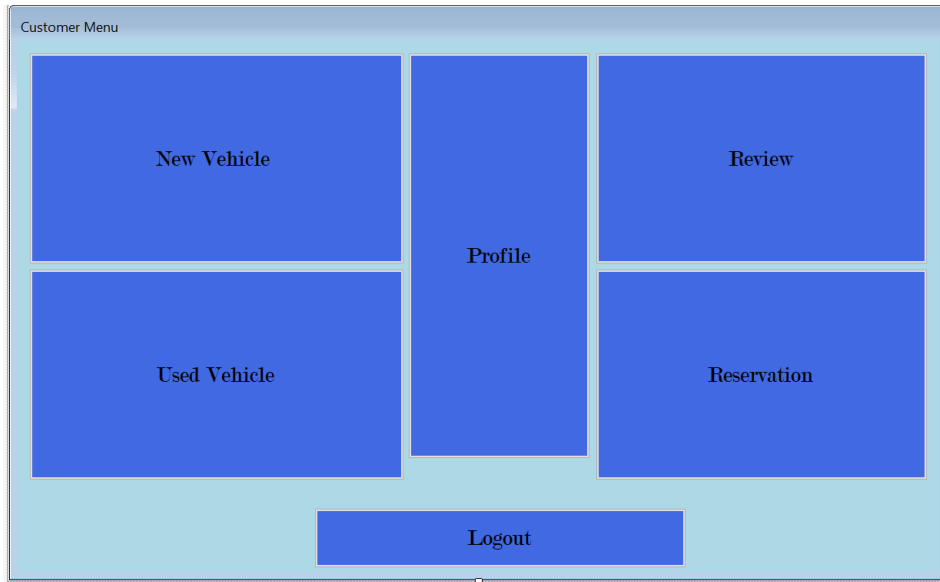
- The user can select the button of customer or employee to enter the next screen

- Customer Login Menu



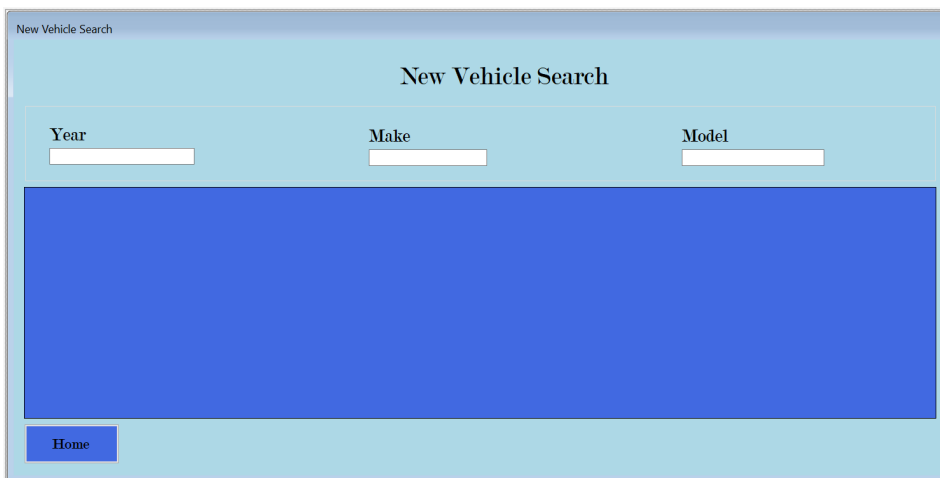
- The Customer can login with a username and password to have access to the main screen. They can click “Forgot Password” to change the password if they don’t remember their password. They also can click “Register” to create a account.

- Customer Main Menu



- On this main screen, the User has access to a new vehicle search, a used vehicle search, a review section, their own profile, and the reservation tab. The user can also close the application.

- Customer New vehicle search



- On the new vehicle search tab, the User can choose through dropdowns on what kind of make, model, year, and size of car they want. The application will then

pull all the cars that are available with those filters. The user can then click to add the car to a reservation.

- Customer Used vehicle search

The screenshot shows a web form titled "Used Vehicle Search". At the top left, there is a small tab labeled "Used Vehicle Search". The main title "Used Vehicle Search" is centered at the top. Below the title, there are three input fields labeled "Year", "Make", and "Model". Each field is a white rectangle with a light blue border. Below these fields is a large blue rectangular area, likely a placeholder for search results. At the bottom left of the form, there is a blue button labeled "Home".

- On the Used vehicle search tab, the user can choose through dropdowns on what kind of make, model, year, and size of car they want. The application will then pull all the cars that are available with those filters. The user can then click to add the car to a reservation.

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- Customer Reservation List

Reservation

## Set a Reservation

Name

Input dates

Phone Number

Email

Budget

Addition Information

[Home](#) [Confirm Reservation](#) [Clear](#)

- On the Reservation Tab, the user can choose the reservation they chose for the car they added, and they can add a date for it.
- Customer Profile

Profile

## Create a Profile

First Name  Last Name

Birthday  Phone #

Address

[Home](#) [Save](#)

- The user can modify their username, password, first name, last name, birthday, address, and phone number. Additionally, the user can see their information on the right box and can save it. The user can then click on the home screen and go back to the main screen

- Customer Review

The screenshot shows a web application window titled "EmplReview". The main heading is "Customer Profiles" with a subtext "Click to delete row". Below the heading, there are two buttons: "Load Customer Reviews" on the left and "Home" on the right. The majority of the screen is occupied by a large, solid blue rectangular area, which likely represents a table or a list of customer profiles that is currently hidden or in a placeholder state.

- The Review Tab is where a customer can submit a review of a car by leaving a rating from 1 to 5 and leaving a comment if they decide to do so. They can also clear their submission if they are not satisfied with their review. Lastly, they can return to the main screen with the home button.

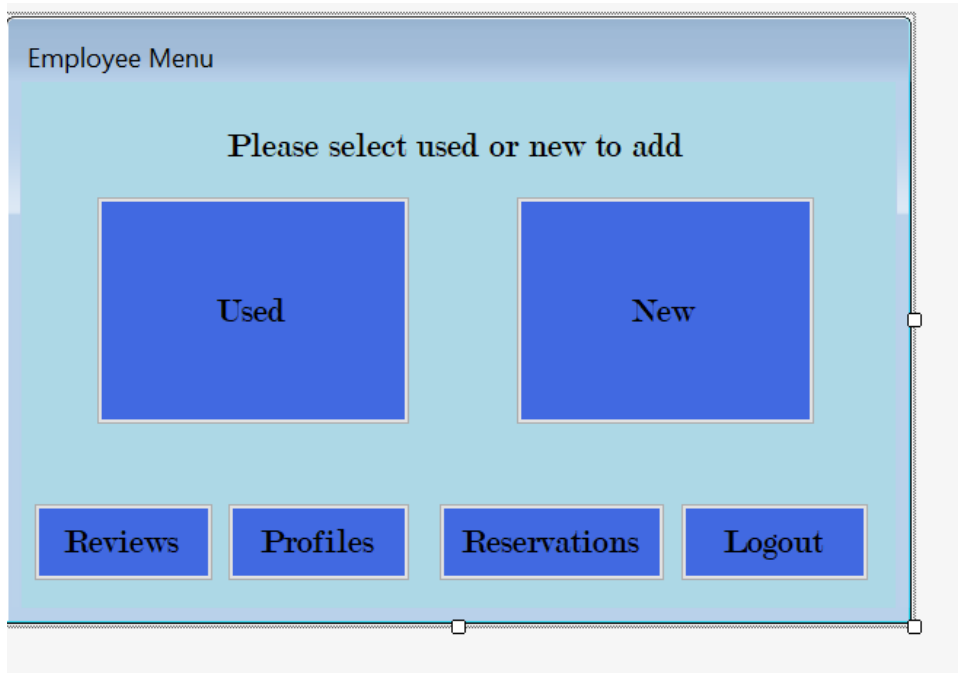
- Employee Login

The screenshot shows a web application window titled "Employee Login". The main heading is "Employee Login". Below the heading, there are two input fields: "Employee User :" followed by a text box, and "Password" followed by a text box. Below these fields, there is a blue button labeled "Login". Underneath the "Login" button, there is a blue, underlined link labeled "Register".

- The worker/employee login screen is where they would log in to modify car specifications.




- Employee Car Selection



The image shows a software window titled "Employee Menu". At the top, it says "Please select used or new to add". Below this text are two large blue rectangular buttons labeled "Used" and "New". At the bottom of the window, there are four smaller blue rectangular buttons labeled "Reviews", "Profiles", "Reservations", and "Logout".

- The Employee/Worker main menu where they can choose between adding a new car or used car for the customer database

- Employee add a New Car



The image shows a software window titled "New Car Add". Below the title is the heading "Add New Car Information". There are two columns of input fields. The left column contains fields for "Year", "Make", "Model", "Type", and "Edition". The right column contains fields for "Price", "Color", "Dealer Ad", and "Dealer #". At the bottom of the window, there are three blue rectangular buttons labeled "Upload", "Clear", and "Exit".

- For the employee/Worker new car tab, they can add new cars in by make, model, year, size, and price. After filling out the different specifications they can upload

or clear that they have input into each box. Lastly, the employee/Worker can exit the new car tab and return to the main menu.

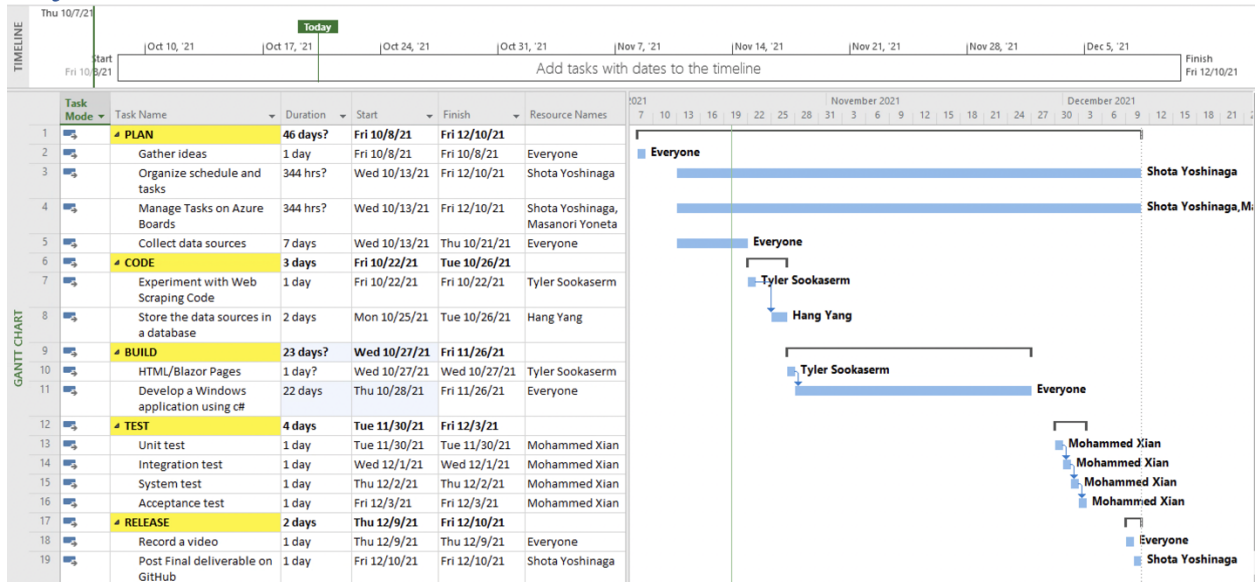
- Employee add a Used Car

The screenshot shows a software window titled "Add a Used Car". Inside the window, the heading "Add Used Car Information" is centered. Below the heading, there are seven input fields arranged in two columns. The left column contains fields for "Year", "Make", "Model", "Type", and "Edition". The right column contains fields for "Mileage", "Cost", "Color", and "Monthly Pay". At the bottom of the form, there are three blue buttons labeled "Upload", "Clear", and "Exit". The window has a light blue background and a thin border.

- For the employee/Worker used car tab, they can add used cars in by make, model, year, size, condition, and price. After filling out the different specifications they can upload or clear that they have input into each box. Lastly the employee/Worker can exit the used car tab and return to the main menu.

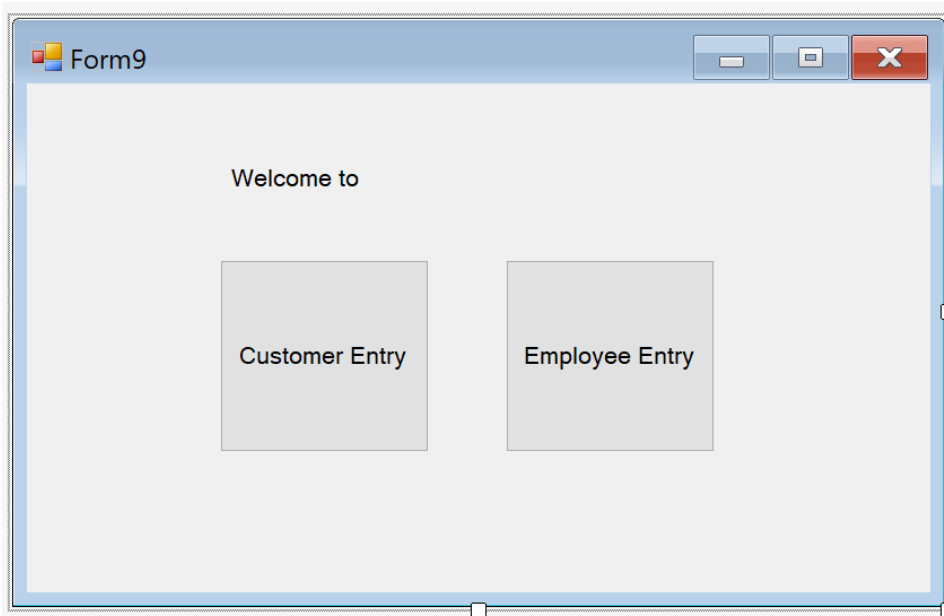
# Appendix

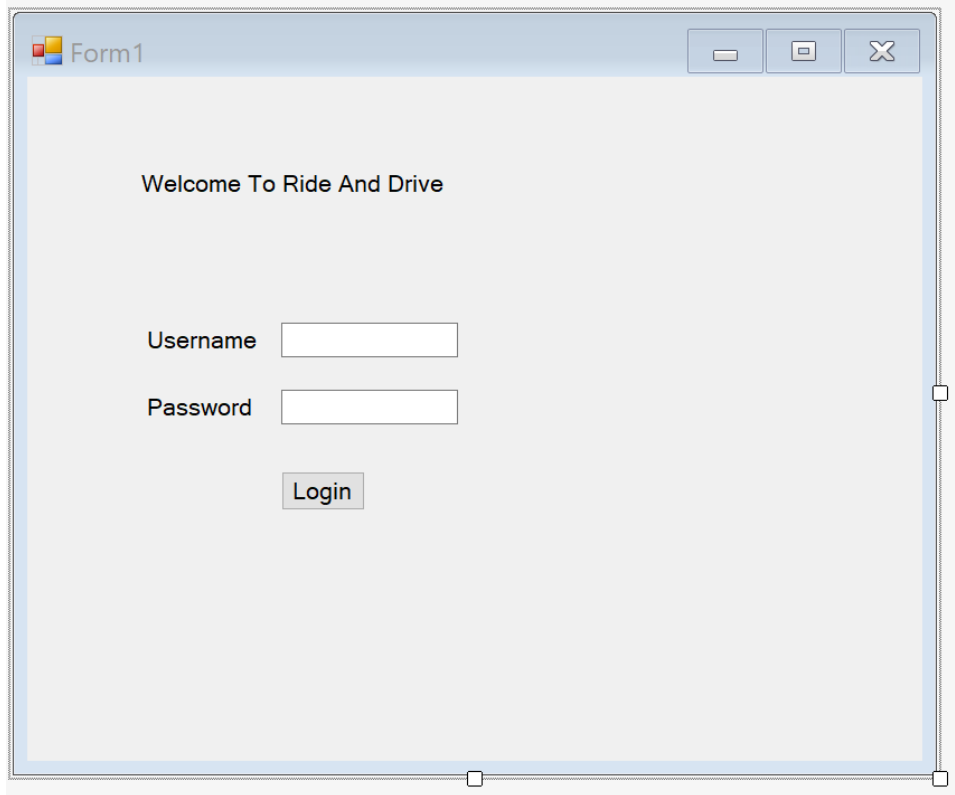
## Project Plan



## User Interface

### For Vehicle Search





Form1

Welcome To Ride And Drive

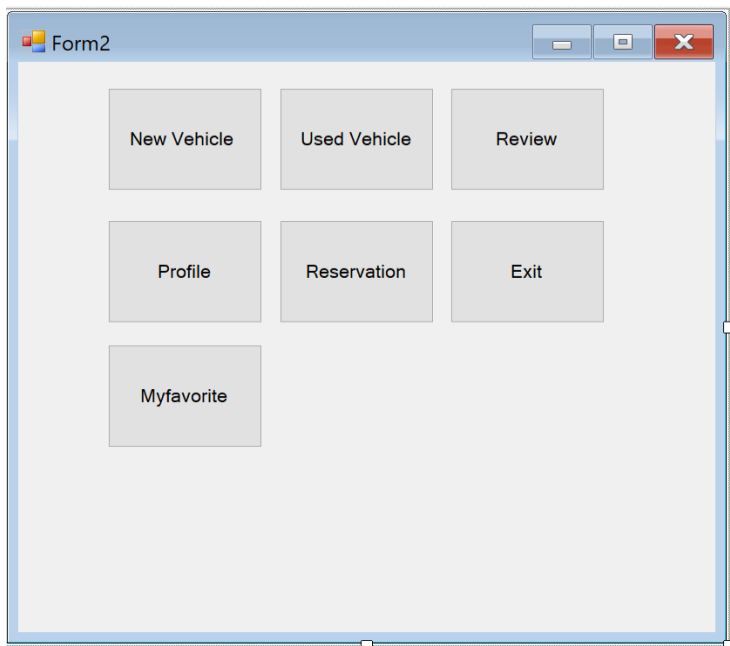
Username

Password

Login

This is a Windows-style window titled 'Form1'. It has a light blue title bar with standard minimize, maximize, and close buttons. The main content area is light gray and contains a welcome message, two input fields for username and password, and a 'Login' button.

The Customer can log in with a username and password to have access to the main screen



Form2

New Vehicle

Used Vehicle

Review

Profile

Reservation

Exit

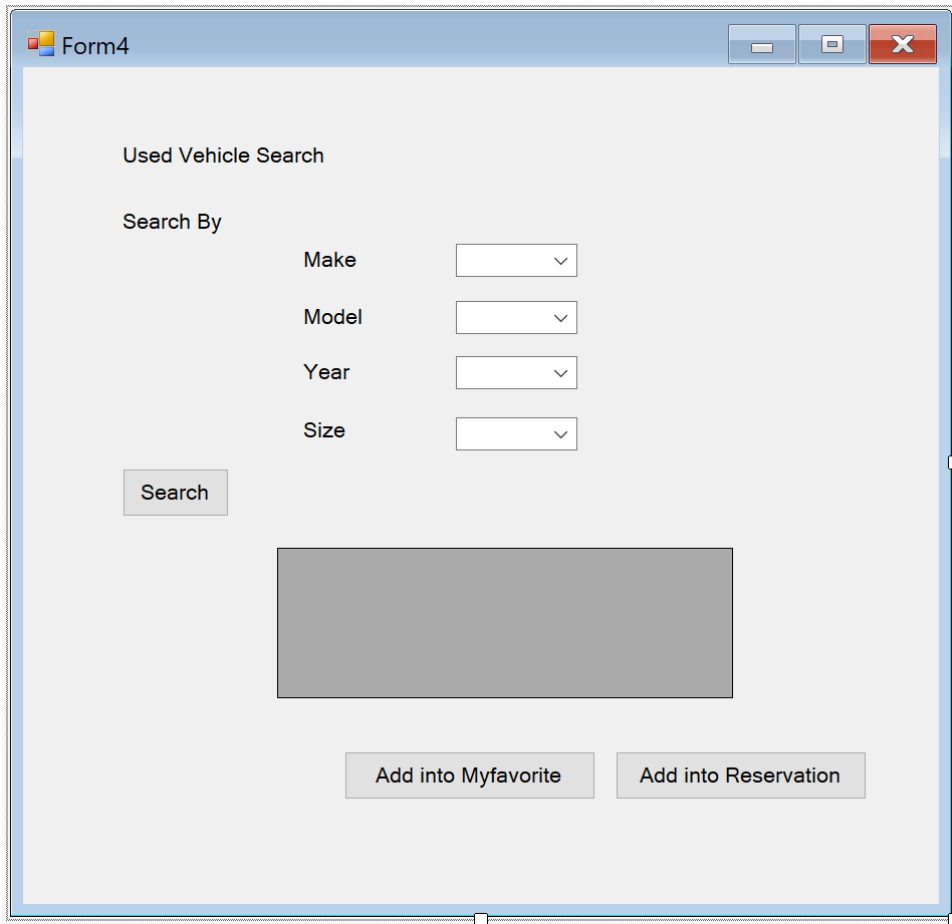
Myfavorite

This is a Windows-style window titled 'Form2'. It has a light blue title bar with standard minimize, maximize, and close buttons. The main content area is light gray and contains six buttons arranged in a grid: 'New Vehicle', 'Used Vehicle', 'Review', 'Profile', 'Reservation', and 'Exit'. A seventh button, 'Myfavorite', is positioned below the 'Profile' and 'Reservation' buttons.

On this main screen, the User has access to a new vehicle search, a used vehicle search, a review section, their own profile, and the reservation tab. The user can also close the application.

The image shows a screenshot of a Windows application window titled "Form3". Inside the window, there is a section titled "New Vehicle Search". Below this title, there is a "Search By" label followed by four dropdown menus labeled "Make", "Model", "Year", and "Size". To the left of a large gray rectangular area is a "Search" button. Below the gray area, there are two buttons: "Add into Myfavorite" and "Add into Reservation".

On the new vehicle search tab, the User can choose through dropdowns on what kind of make, model, year, and size of car they want. The application will then pull all the cars that are available with those filters. The user can then click to add the car to a reservation.



Form4

Used Vehicle Search

Search By

Make

Model

Year

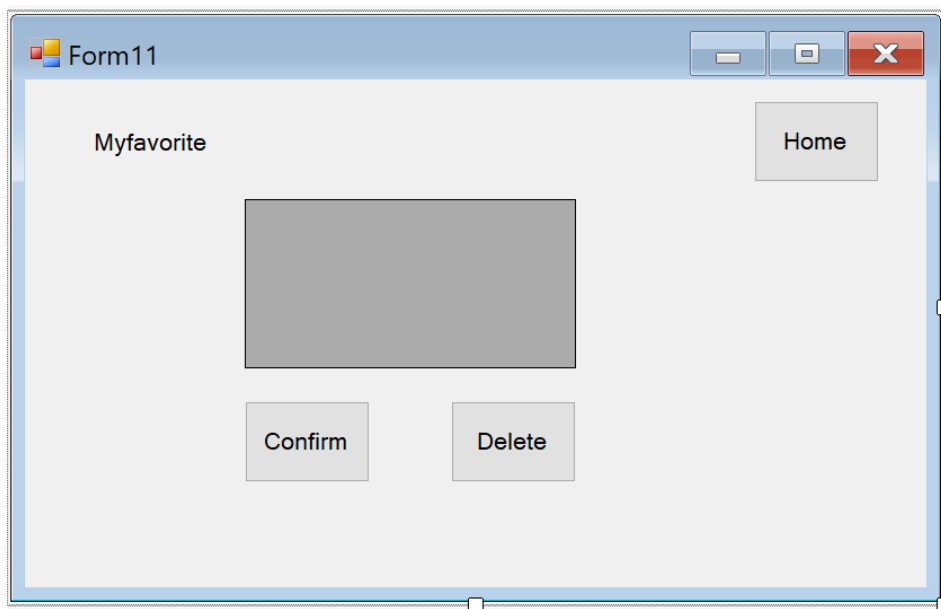
Size

Search

Add into Myfavorite Add into Reservation

This screenshot shows a Windows-style window titled 'Form4'. Inside, there's a section titled 'Used Vehicle Search'. Below this, the text 'Search By' is followed by four labels: 'Make', 'Model', 'Year', and 'Size'. Each label is paired with a text input field that has a small downward arrow on its right side, indicating a dropdown menu. To the left of these fields is a 'Search' button. Below the search fields is a large, empty rectangular box, likely a placeholder for search results. At the bottom of the window, there are two buttons: 'Add into Myfavorite' and 'Add into Reservation'.

On the Used vehicle search tab, the user can choose through dropdowns on what kind of make, model, year, and size of car they want. The application will then pull all the cars that are available with those filters. The user can then click to add the car to a reservation.



Form11

Myfavorite

Home

Confirm Delete

This screenshot shows a Windows-style window titled 'Form11'. The main content area is titled 'Myfavorite'. In the top right corner, there is a 'Home' button. Below the title, there is a large, empty rectangular box, likely a placeholder for a list of favorite vehicles. At the bottom of the window, there are two buttons: 'Confirm' and 'Delete'.

After customers add cars into their favorite list, customers can check it here. Customers can confirm or delete it depending on the customer's choice.

The screenshot shows a window titled "Form5" with standard Windows window controls (minimize, maximize, close). The interface is titled "Reservation" and features a large gray rectangular area on the right. To the left of this area is a label "Input dates" followed by a text input field. Below the gray area are two buttons: "Confirm" and "Clear".

On the Reservation Tab, the user can choose the reservation they chose for the car they added, and they can add a date for it.

The screenshot shows a window titled "Form6" with standard Windows window controls. The interface is titled "Profile" and includes three buttons at the top: "Edit", "Save", and "Home". On the left side, there are seven labels with corresponding text input fields: "Username", "Password", "First Name", "Last Name", "Birthday", "Address", and "Phone". To the right of these fields is a large gray rectangular area.

The user can modify their username, password, first name, last name, birthday, address, and phone number. Additionally, the user can see their information on the right box and can save it. The user can then click on the home screen and go back to the main screen

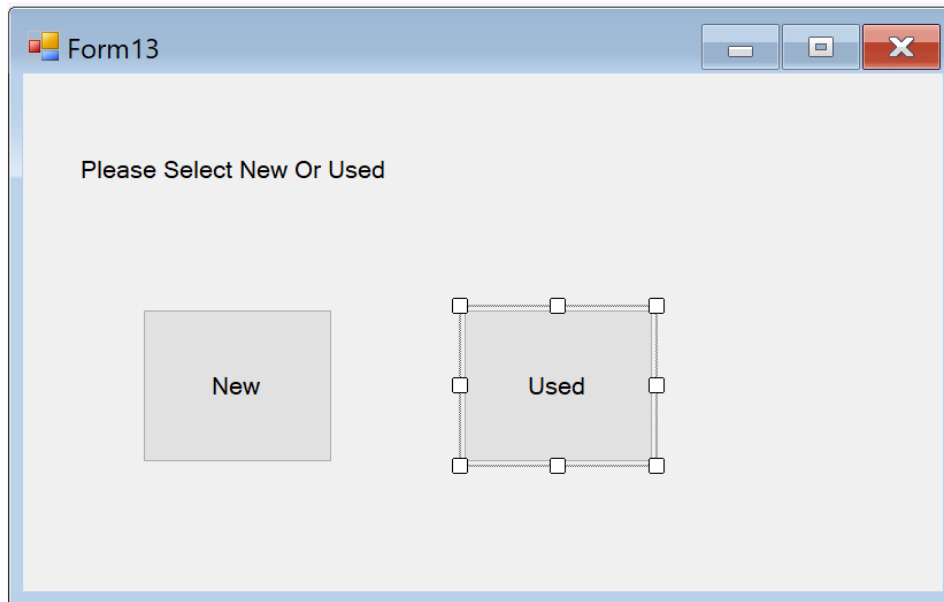
The screenshot shows a window titled 'Form7' with a standard Windows-style title bar (minimize, maximize, close buttons). The main content area has a light gray background. At the top left, the word 'Review' is displayed. To its right are three buttons: 'Submit', 'Clear', and 'Home'. Below 'Review', there is a label 'Rate' followed by a dropdown menu showing a downward arrow. Underneath that is a label 'Write some comments' followed by a large, empty rectangular text area. The window has a blue border and a small square handle on the right side.

The Review Tab is where a customer can submit a review of a car by leaving a rating from 1 to 5 and leaving a comment if they decide to do so. They can also clear their submission if they are not satisfied with their review. Lastly, they can return to the main screen with the home button.

The screenshot shows a window titled 'Worker Screen' with a standard Windows-style title bar (minimize, maximize, close buttons). The main content area has a light gray background. At the top left, the text 'Worker Screen' is displayed. Below it are two labels: 'Employee ID' and 'Password', each followed by a rectangular input field. At the bottom center, there is a 'Login' button. The window has a blue border and a small square handle on the right side.

The worker/employee login screen is where they would log in to modify car specifications.





Form13

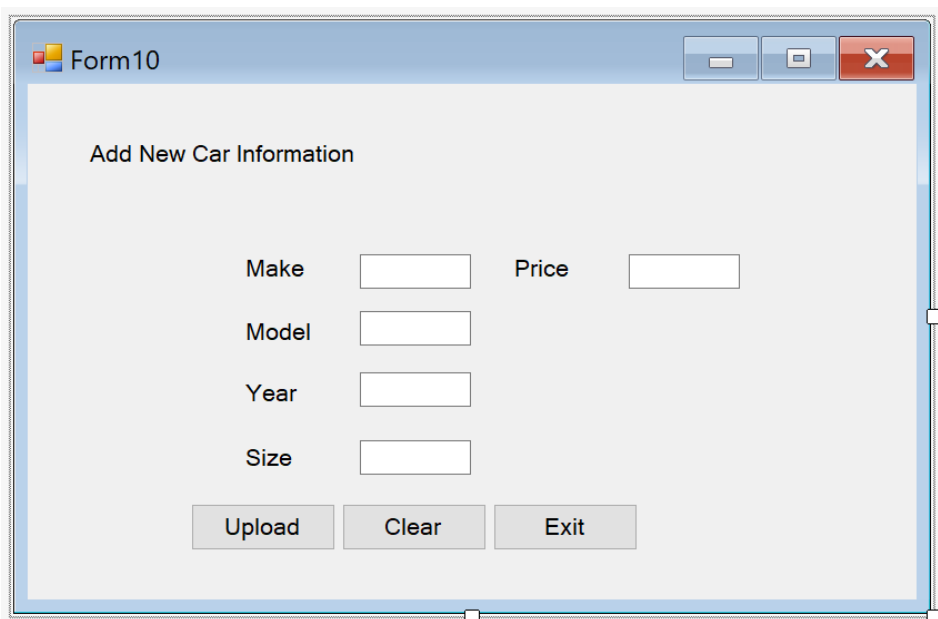
Please Select New Or Used

New

Used

This screenshot shows a Windows-style window titled 'Form13'. The window has a light gray background and a blue title bar with standard minimize, maximize, and close buttons. The main content area contains the text 'Please Select New Or Used' at the top. Below this text, there are two rectangular buttons. The button on the left is labeled 'New' and is a solid light gray. The button on the right is labeled 'Used' and is also a light gray, but it has a dashed border and small square handles at its corners, indicating it is currently selected or being edited.

The Employee/Worker main menu where they can choose between adding a new car or used car for the customer database



Form10

Add New Car Information

Make  Price

Model

Year

Size

Upload Clear Exit

This screenshot shows a Windows-style window titled 'Form10'. The window has a light gray background and a blue title bar with standard minimize, maximize, and close buttons. The main content area contains the text 'Add New Car Information' at the top. Below this text, there are five input fields arranged in two rows. The first row has 'Make' and 'Price' labels followed by text input boxes. The second row has 'Model', 'Year', and 'Size' labels followed by text input boxes. At the bottom of the form, there are three buttons: 'Upload', 'Clear', and 'Exit', all in a light gray style.

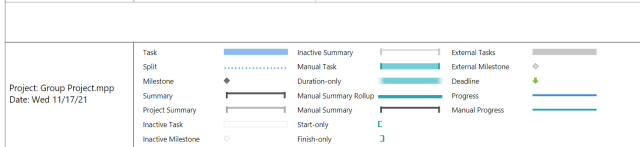
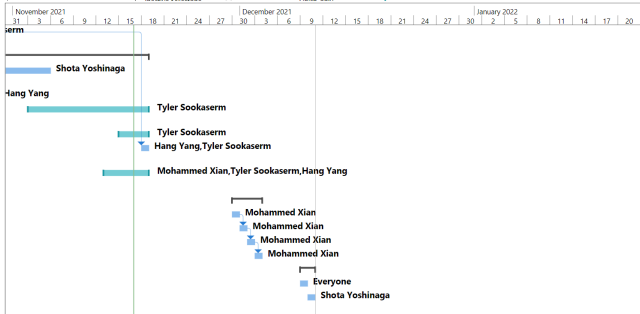
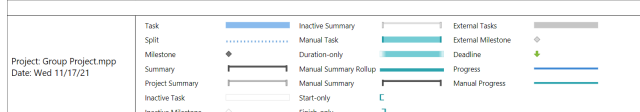
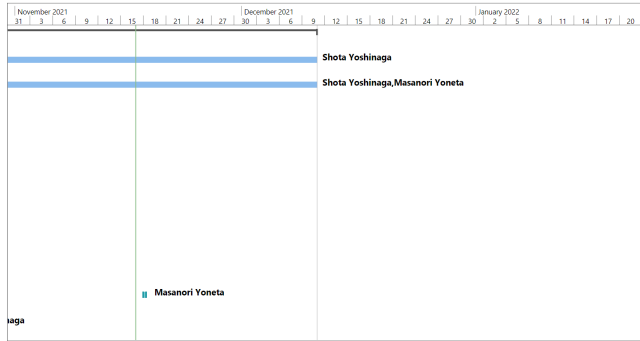
For the employee/Worker new car tab, they can add new cars in by make, model, year, size, and price. After filling out the different specifications they can upload or clear that they have input into each box. Lastly, the employee/Worker can exit the new car tab and return to the main menu.

The image shows a screenshot of a Windows application window titled "Form12". Inside the window, the text "Add Used Car Information" is centered at the top. Below this, there are six input fields arranged in two columns. The left column contains fields for "Make", "Model", "Year", and "Size". The right column contains fields for "Condition" and "Price". At the bottom of the form, there are three buttons: "Upload", "Clear", and "Exit". The window has a standard Windows title bar with minimize, maximize, and close buttons.

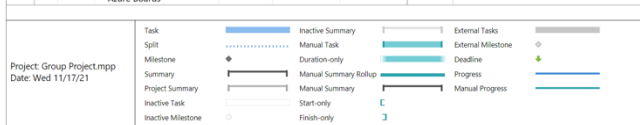
For the employee/Worker used car tab, they can add used cars in by make, model, year, size, condition, and price. After filling out the different specifications they can upload or clear that they have input into each box. Lastly the employee/Worker can exit the used car tab and return to the main menu.

## Appendix 2

### Project Plan



ID	Task Mode	Task Name	Duration	Start	Finish	October 2021
1		<b>PLAN</b>	46 days?	Fri 10/8/21	Fri 12/10/21	
2		Gather ideas	1 day	Fri 10/8/21	Fri 10/8/21	Everyone
3		Organize schedule and tasks	344 hrs?	Wed 10/13/21	Fri 12/10/21	
4		Manage Tasks on Azure Boards	344 hrs?	Wed 10/13/21	Fri 12/10/21	
5		Collect data sources	7 days	Wed 10/13/21	Thu 10/21/21	
6		<b>Project Charter</b>	2 days	Fri 10/8/21	Sat 10/9/21	
7		Decide on direction of project	16 hrs	Fri 10/8/21	Sat 10/9/21	Everyone
8		Delegate positions of members	16 hrs	Fri 10/8/21	Sat 10/9/21	Shota Yoshinaga
9		Project Overview	16 hrs	Fri 10/8/21	Sat 10/9/21	Shota Yoshinaga
10		Objectives	16 hrs	Fri 10/8/21	Sat 10/9/21	Tyler Sookaserm
11		Key Stakeholders	16 hrs	Fri 10/8/21	Sat 10/9/21	Mohammed Xian
12		Project risks	16 hrs	Fri 10/8/21	Sat 10/9/21	Hang Yang
13		key assumptions	16 hrs	Fri 10/8/21	Sat 10/9/21	Masanori Yoneta
14		project scope	16 hrs	Fri 10/8/21	Sat 10/9/21	Tyler Sookaserm
15		Develop initial timeline	16 hrs	Fri 10/8/21	Sat 10/9/21	Shota Yoshinaga
16		Update use cases	1 hr	Thu 11/18/21	Thu 11/18/21	
17		<b>CODE</b>	1 day	Fri 10/22/21	Fri 10/22/21	
18		Create GitHub page and Azure Boards	1 hr	Fri 10/22/21	Fri 10/22/21	Shota Yoshinaga



ID	Task Mode	Task Name	Duration	Start	Finish	October 2021	
19		Experiment with Web Scraping Code	1 day	Fri 10/22/21	Fri 10/22/21	1	4
20		<b>BUILD</b>	<b>31 days</b>	<b>Thu 10/7/21</b>	<b>Thu 11/18/21</b>		
21		Develop a Windows application using c#	22 days	Thu 10/7/21	Fri 11/5/21		
22		Create Interface	1 day	Thu 10/28/21	Thu 10/28/21		
23		Extract new and used car data	12 days	Wed 11/3/21	Thu 11/18/21		
24		create data dictionary	4 days	Mon 11/15/21	Thu 11/18/21		
25		Store the data sources in a database	1 day	Thu 11/18/21	Thu 11/18/21		
26		Polish Interface	5 days	Sat 11/13/21	Thu 11/18/21		
27		Code functionality					
28		<b>TEST</b>	<b>4 days</b>	<b>Tue 11/30/21</b>	<b>Fri 12/3/21</b>		
29		Unit test	1 day	Tue 11/30/21	Tue 11/30/21		
30		Integration test	1 day	Wed 12/1/21	Wed 12/1/21		
31		System test	1 day	Thu 12/2/21	Thu 12/2/21		
32		Acceptance test	1 day	Fri 12/3/21	Fri 12/3/21		
33		<b>RELEASE</b>	<b>2 days</b>	<b>Thu 12/9/21</b>	<b>Fri 12/10/21</b>		
34		Record a video	1 day	Thu 12/9/21	Thu 12/9/21		
35		Post Final deliverable on GitHub	1 day	Fri 12/10/21	Fri 12/10/21		

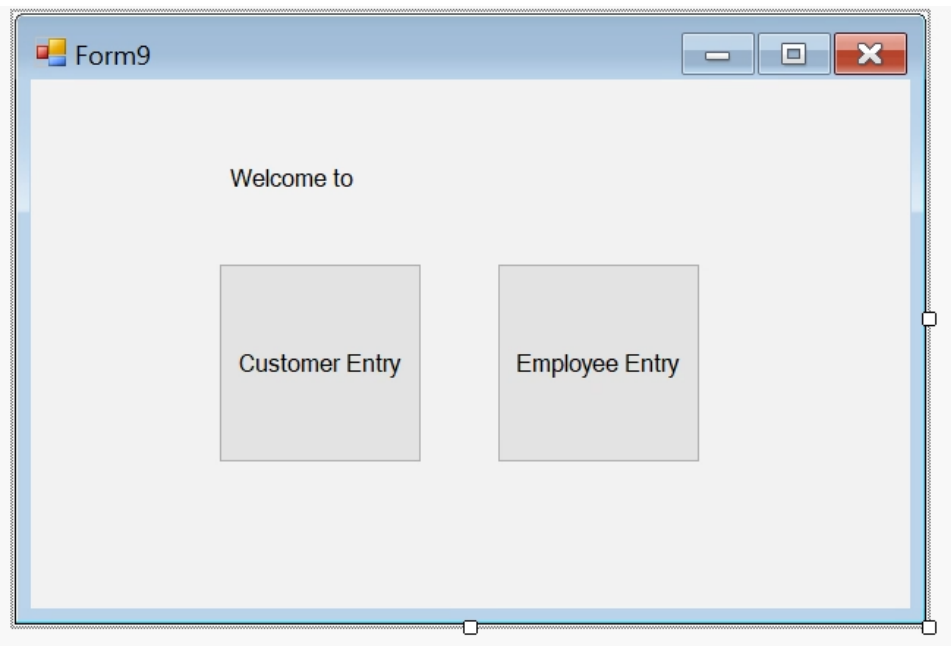
  

Project: Group Project.mpp	Task	Inactive Summary	External Task
Date: Wed 11/17/21	Split	Manual Task	External Milestone
	Milestone	Duration-only	Deadline
	Summary	Manual Summary Rollup	Progress
	Project Summary	Manual Summary	Manual Progress
	Inactive Task	Start-only	
	Inactive Milestone	Finish-only	

## Appendix 3

### User Interface

- Main Menu



- The user can select the button of customer or employee to enter the next screen

- Customer Login Menu

Login

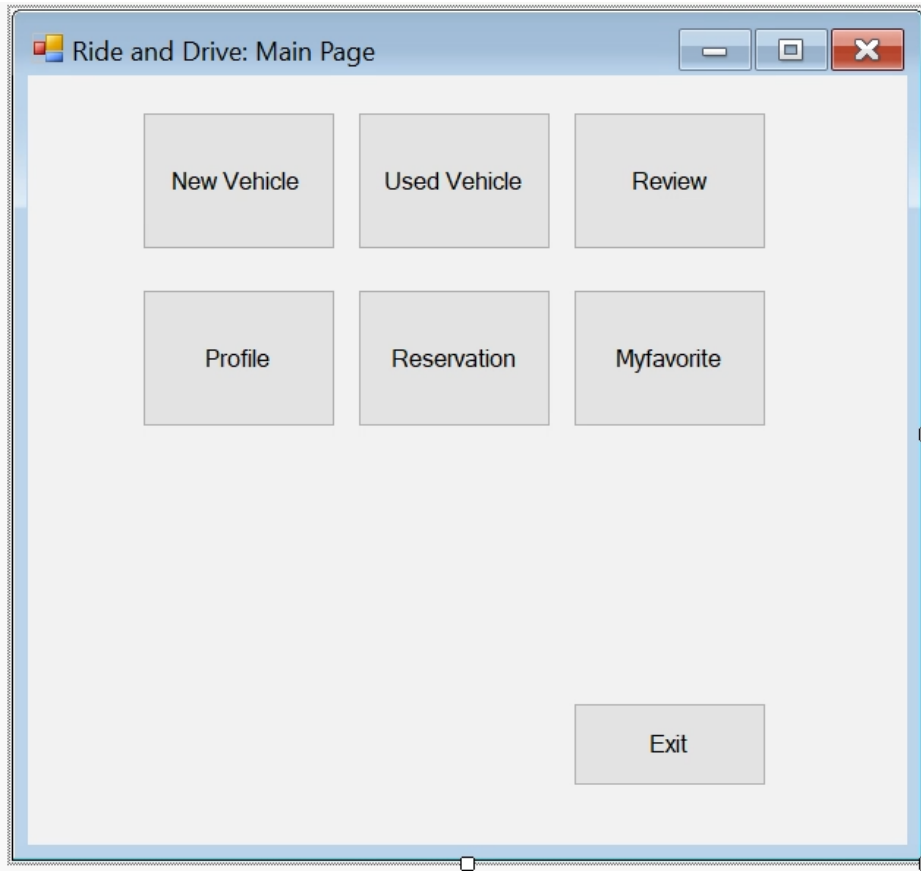
## Welcome To Ride And Drive

Username

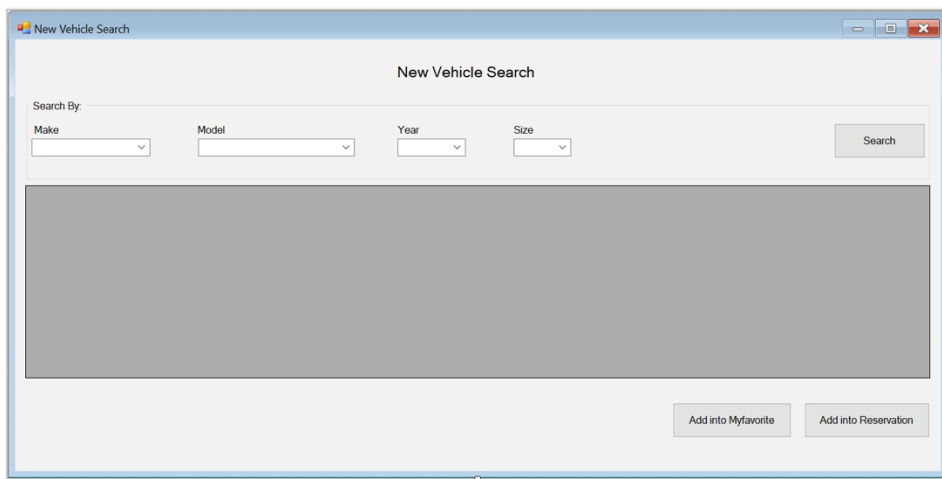
Password

[Forgot Password](#) [Register](#)

- The Customer can login with a username and password to have access to the main screen. They can click “Forgot Password” to change the password if they don’t remember their password. They also can click “Register” to create a account.
- Customer Main Menu



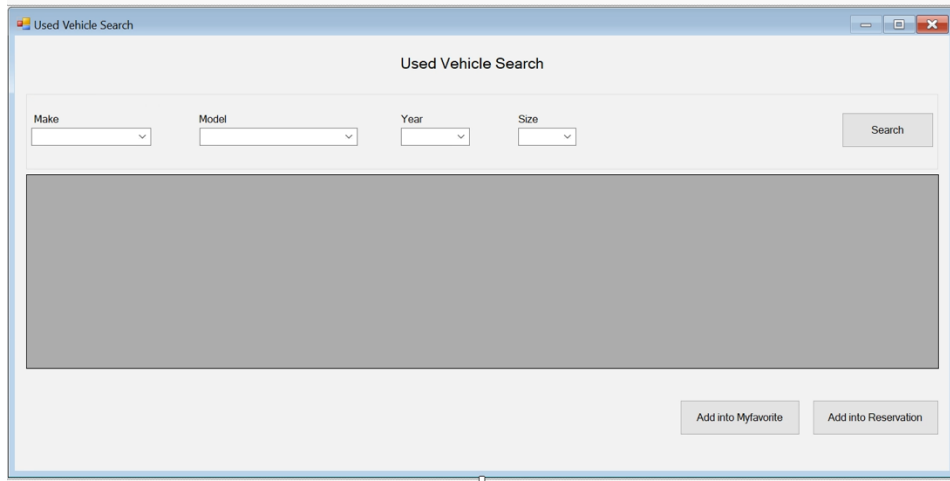
- On this main screen, the User has access to a new vehicle search, a used vehicle search, a review section, their own profile, and the reservation tab. The user can also close the application.
- Customer New vehicle search



- On the new vehicle search tab, the User can choose through dropdowns on what kind of make, model, year, and size of car they want. The application will then

pull all the cars that are available with those filters. The user can then click to add the car to a reservation.

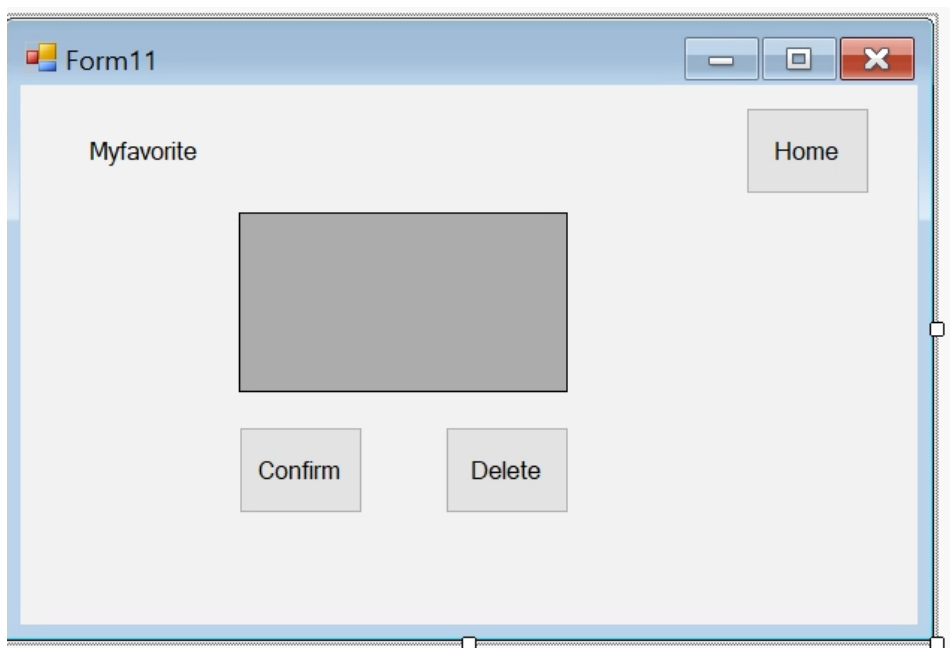
- Customer Used vehicle search



The screenshot shows a window titled "Used Vehicle Search". Inside the window, there is a header "Used Vehicle Search". Below the header, there are four dropdown menus labeled "Make", "Model", "Year", and "Size". To the right of these dropdowns is a "Search" button. Below the search filters is a large, empty rectangular area, likely a placeholder for search results. At the bottom right of the window, there are two buttons: "Add into Myfavorite" and "Add into Reservation".

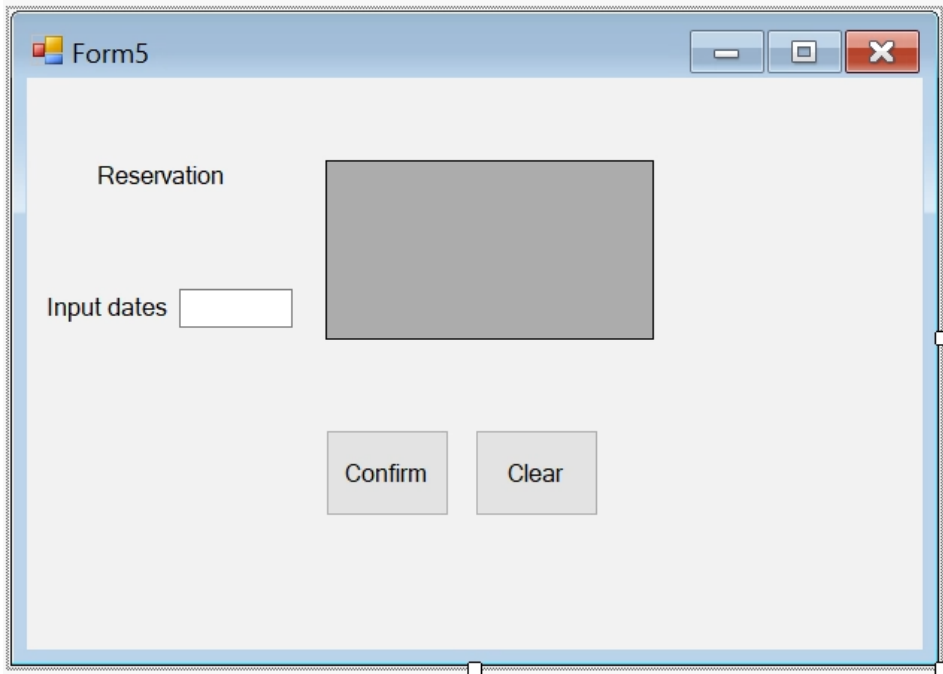
- On the Used vehicle search tab, the user can choose through dropdowns on what kind of make, model, year, and size of car they want. The application will then pull all the cars that are available with those filters. The user can then click to add the car to a reservation.

- Customer Favorite List



The screenshot shows a window titled "Form11". Inside the window, there is a header "Myfavorite". To the right of the header is a "Home" button. Below the header is a large, empty rectangular area, likely a placeholder for a list of favorite items. At the bottom of the window, there are two buttons: "Confirm" and "Delete".

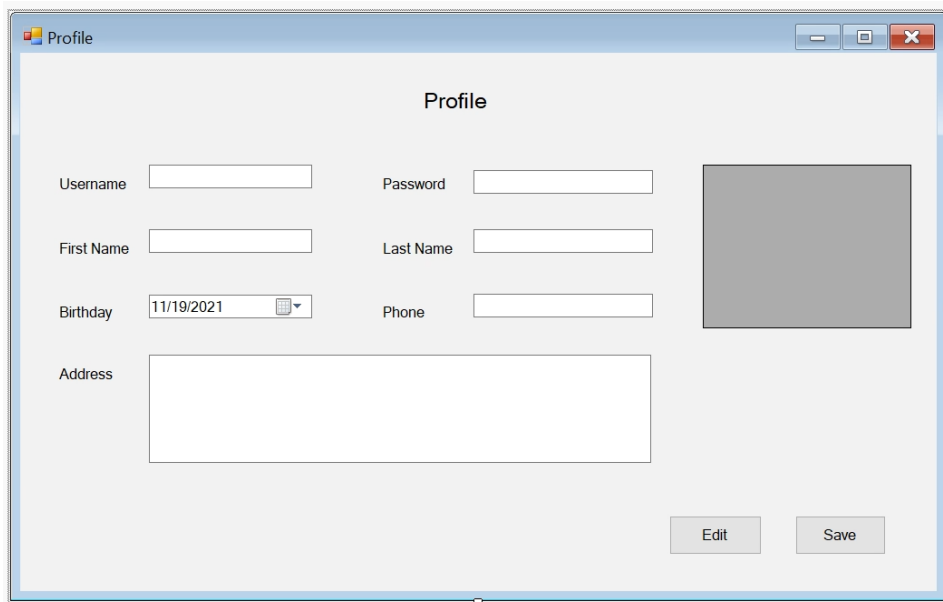
- After customers add cars into their favorite list, customers can check it here. Customers can confirm or delete it depending on the customer's choice. After they confirm the favorite list, they can click "Home" button to go back to main menu.
- Customer Reservation List



The screenshot shows a window titled "Form5" with a standard Windows-style title bar (minimize, maximize, close buttons). The main content area is light gray and contains the following elements:

- A label "Reservation" at the top left.
- An "Input dates" label followed by a text input field.
- A large, empty gray rectangular box to the right of the input field.
- Two buttons, "Confirm" and "Clear", positioned below the input field and the gray box.

- On the Reservation Tab, the user can choose the reservation they chose for the car they added, and they can add a date for it.
- Customer Profile



The screenshot shows a window titled "Profile" with a standard Windows-style title bar. The main content area is light gray and contains the following elements:

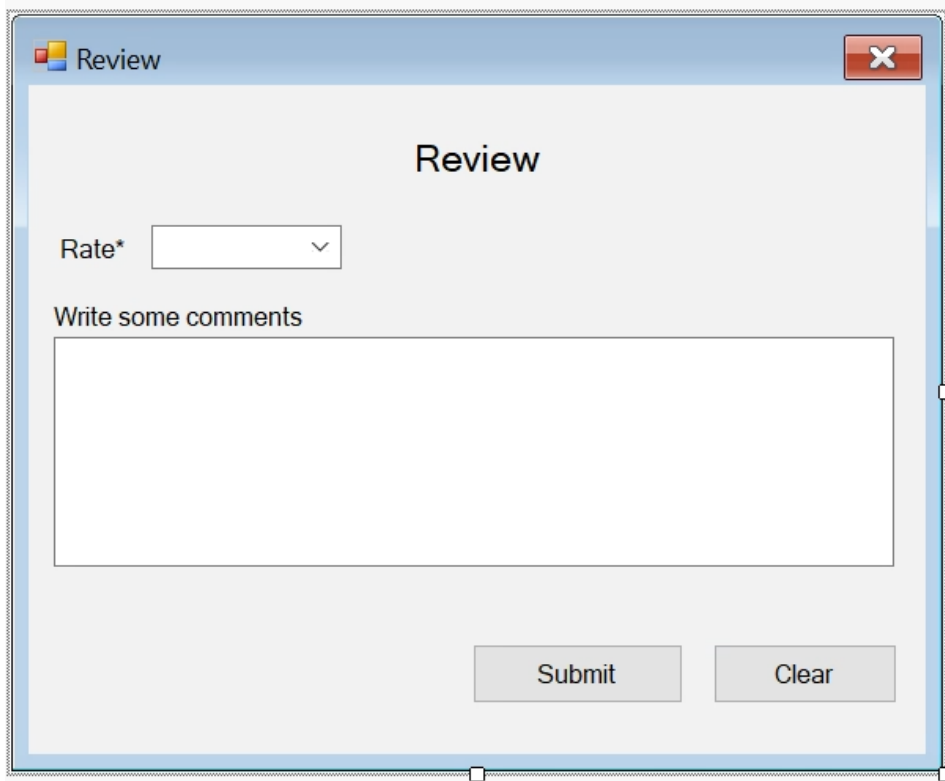
- A label "Profile" centered at the top.
- Form fields for "Username", "Password", "First Name", "Last Name", "Birthday" (with a date picker showing "11/19/2021"), and "Phone".
- A large, empty gray rectangular box on the right side of the form.
- A large text input field for "Address" below the other fields.
- Two buttons, "Edit" and "Save", at the bottom right of the form.

- The user can modify their username, password, first name, last name, birthday, address, and phone number. Additionally, the user can see their information on



the right box and can save it. The user can then click on the home screen and go back to the main screen

- Customer Review



Review

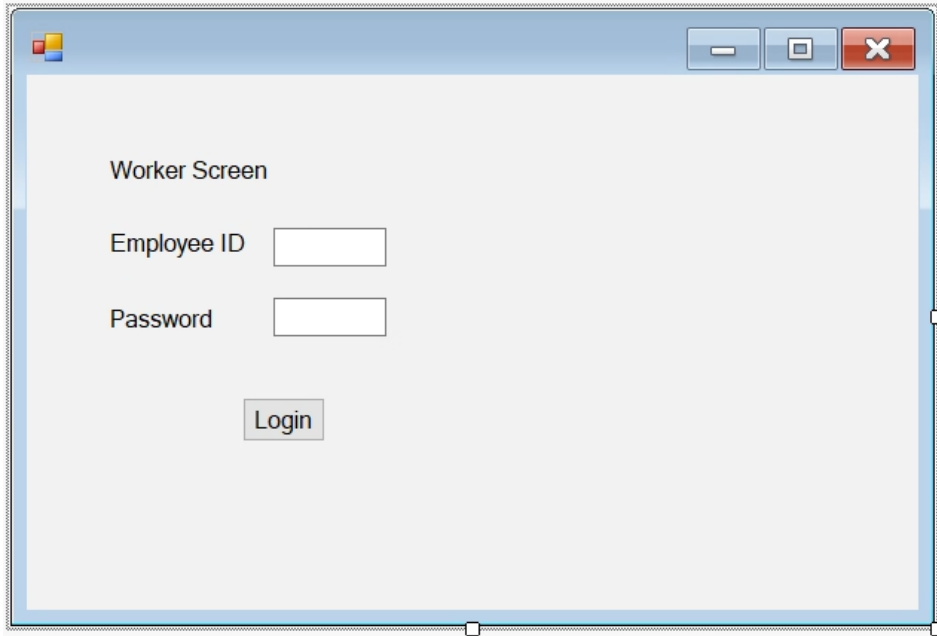
Rate\*

Write some comments

Submit Clear

- The Review Tab is where a customer can submit a review of a car by leaving a rating from 1 to 5 and leaving a comment if they decide to do so. They can also clear their submission if they are not satisfied with their review. Lastly, they can return to the main screen with the home button.

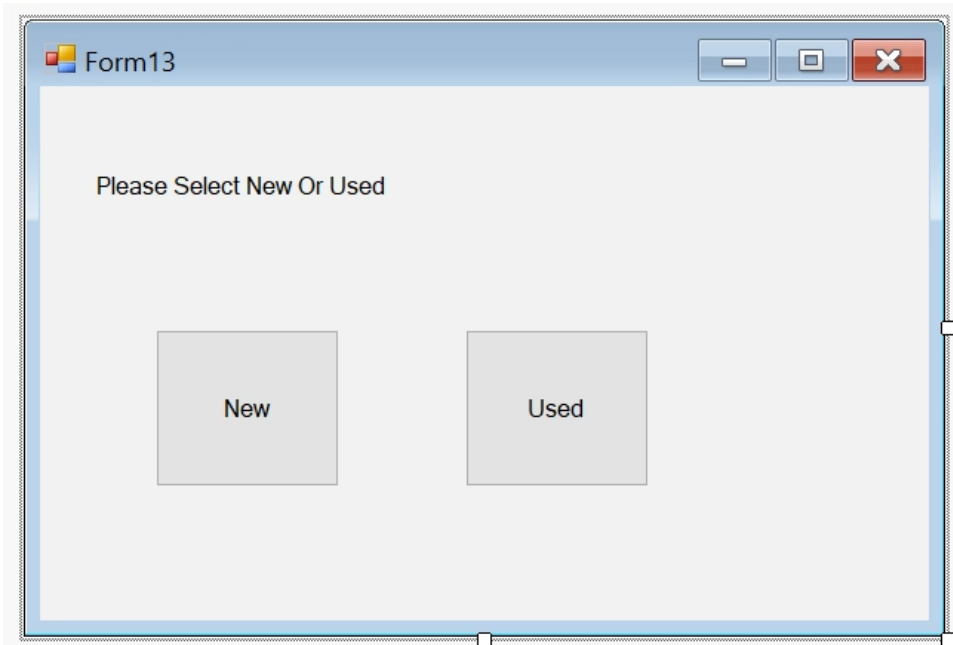
- Employee Login



A screenshot of a Windows-style application window titled "Worker Screen". The window has a standard title bar with minimize, maximize, and close buttons. The main content area is light gray and contains the following elements: the text "Worker Screen" at the top left, followed by "Employee ID" and "Password" labels, each with a corresponding white text input box to its right. Below these input fields is a single "Login" button.

- The worker/employee login screen is where they would log in to modify car specifications.

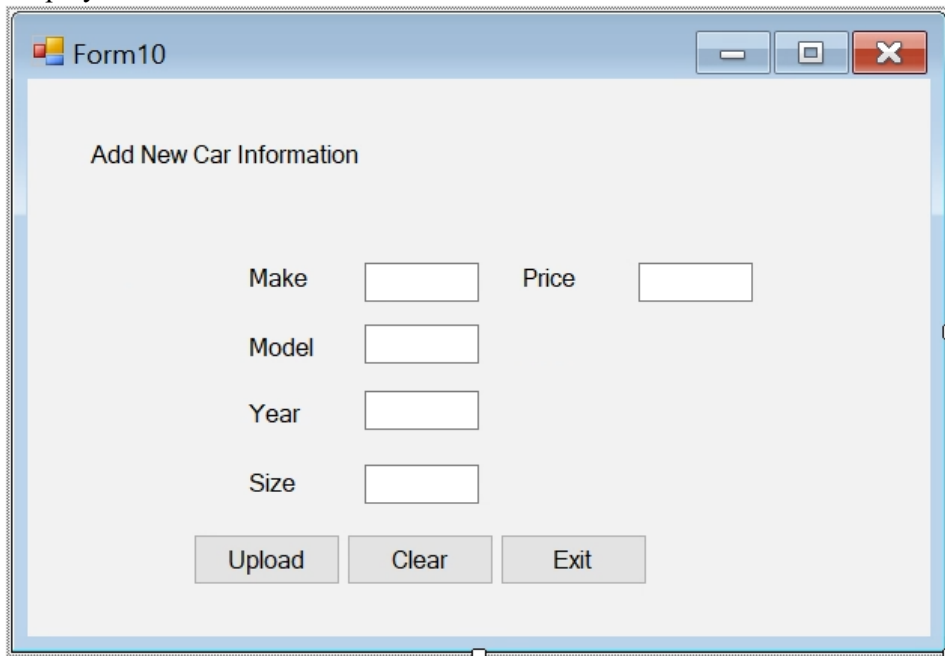
- Employee Car Selection



A screenshot of a Windows-style application window titled "Form13". The window has a standard title bar with minimize, maximize, and close buttons. The main content area is light gray and contains the following elements: the text "Please Select New Or Used" at the top left, followed by two large, light gray rectangular buttons labeled "New" and "Used" side-by-side.

- The Employee/Worker main menu where they can choose between adding a new car or used car for the customer database

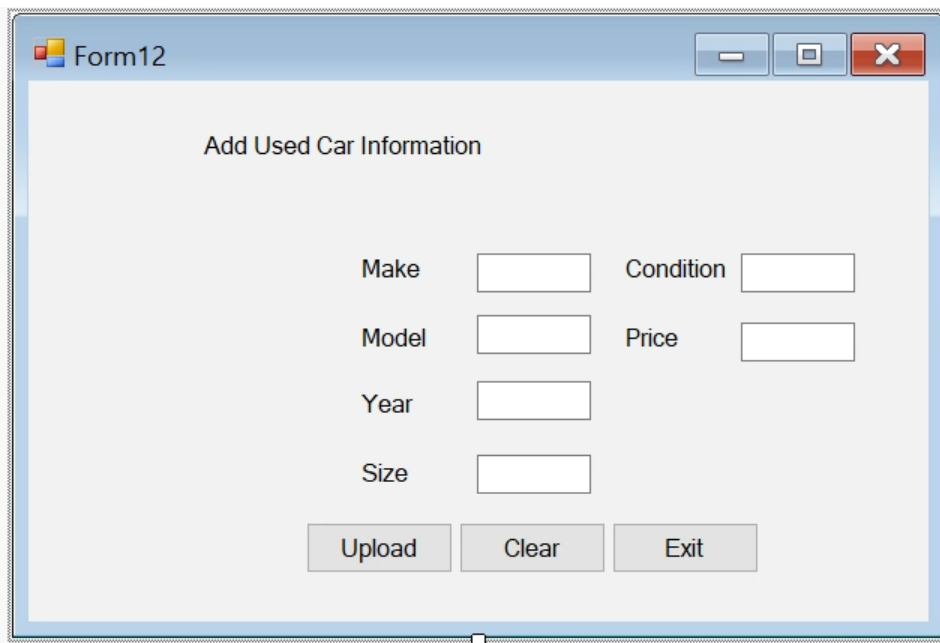
- Employee add a New Car



The screenshot shows a window titled "Form10" with a standard Windows-style title bar (minimize, maximize, close buttons). The main content area is titled "Add New Car Information". It contains five text input fields arranged in two columns: "Make" and "Price" in the top row, "Model" in the middle row, and "Year" and "Size" in the bottom row. At the bottom of the form are three buttons: "Upload", "Clear", and "Exit".

- For the employee/Worker new car tab, they can add new cars in by make, model, year, size, and price. After filling out the different specifications they can upload or clear that they have input into each box. Lastly, the employee/Worker can exit the new car tab and return to the main menu.

- Employee add a Used Car



The screenshot shows a window titled "Form12" with a standard Windows-style title bar (minimize, maximize, close buttons). The main content area is titled "Add Used Car Information". It contains five text input fields arranged in two columns: "Make" and "Condition" in the top row, "Model" and "Price" in the middle row, and "Year" and "Size" in the bottom row. At the bottom of the form are three buttons: "Upload", "Clear", and "Exit".

- For the employee/Worker used car tab, they can add used cars in by make, model, year, size, condition, and price. After filling out the different specifications they can upload or clear that they have input into each box. Lastly the employee/Worker can exit the used car tab and return to the main menu.