



FPT ACADEMY INTERNATIONAL
FPT – APTECH COMPUTER EDUCATION

Car Breezy

Supervisor: LÊ THANH NHÂN

Semester: 01

Batch No: T1.2204.M0

Group No: 03

Order:	Full name	Roll No.
1.	Võ Minh Tú	Student1379714
2.	Bùi Thành Yến Phi	Student1379714
3.	Võ Trọng Tín	Student1379708
4.	Phù Tường Vũ	Student1368159

Month: 07 **Year:** 2022

This is to certify that

Mr. **VŨ MINH TÚ**

Mrs. **BÙI THẠNH YÊN PHI**

Mr. **VŨ TRỌNG TÍN**

Mr. **PHÙ TUỜNG VŨ**

Have successfully Designed & Developed

CARBREEZY

Submitted by:

Mr. LE THANH NHAN

Date Of Issue:

Authorized Signature:

Content

Content

Acknowledge

Synopsis

Review1 1

Review2 6

Review3 8

Testing Document 0

Final Checklist 0

Tasksheet 11

Acknowledge

As we understand that the eProject is a step-by-step learning environment that closely simulates the class-room and Lab based learning environment into actual implementation. It is a project implementation at your fingertips!! An electronic, live juncture on the machine that allows you to.

- ✓ Practice step by step i.e. laddered approach.
- ✓ Build a larger more robust application.
- ✓ Usage of certain utilities in applications designed by user.
- ✓ Single program to unified code leading to a complete application.
- ✓ Learn implementation of concepts in a phased manner.
- ✓ Enhance skills and add value.
- ✓ Work on real life projects.
- ✓ Give a real life scenario and help to create applications more complicated and useful.
- ✓ Mentoring through email support.

We would like to send a great thank to our professor and others student for the addorable supports during the time in project.

Beside serveral mistakes we had made in the project, we hope to have more oppotunities to widen our knownldege in web developing world.

We also thank you so much for your infomation and the “demo” project from India APTECH to help us get more reality experience in this project. Since we have gained more experience from this project, we will not stop learning any thing as much as we can to be more successful in the future.

Your Sincerely,

Team Group 03.

Synopsis

The Objective of this program we aim is to give a sample project to work on real life projects. These applications help us build a larger more robust application.

The objective is not to teach us HTML/JavaScript but to provide us with a real life scenario and help us create basic applications using the tools.

Hence, we can revise the chapters before we start with the project.

This project is meant for students like us who have completed the module of HTML5. These programs should be done in the Lab sessions with assistance of the faculty if required.

The website is a digital marketplace that makes car buying and selling more efficient with abundant options for cars filtered by new, used, and brand names. More than that, users can find a suitable price for their car with available offers or make one. In addition to this, the website also provides good features for registration and facilitates time-consuming transactions.

It is very essential for us that will have a clear understanding of the subject. We think we should go through the project and solve the assignments as per requirements given.

And get back *eprojects@aptech.ac.in* as the assigned schedule.

Design Plan: CarBreezy	Document Name: Problem Definition	SWD/Form No.01/PD/Ver1.0
Effective Date: 20-07-2002	Version 1.0	Page No: 1 of 29

Problem Definition

The portal will be designed as a single-page-application and responsive website with a set of pages and menus that represent the choice of activities to be performed. The pages, menus, and other visual elements must be designed in a visually appealing manner with attractive fonts, colors, and animations. All of these should also be laid out in a responsive manner.

The Web site is to be created based on the following requirements.

1. The Top of the Page should be presented with a suitable logo and a banner with a depiction of cars on it.
2. The site must contain a menu with links to New, Used, Brands, Offers etc.
3. Sections should be created with a proper listing of cars under NEW, USED, BRANDS etc.
4. Clicking on any car should open a pop-up window with images of the car and a price along with tabs such as Internal Specification, External, Engine, Dimensions with details mentioned in these tabs.
5. Filter with options such as “Hatchbacks”, “Sedan”, “SUV”, “Convertibles” etc, should be provided.
6. Section for various Offers should be provided with a list of available offers.
7. Gallery should be provided for viewing different images.
8. Site map, Gallery, about us, Queries link, Contact us link must be added.

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Problem Definition	SWD/Form No.01/PD/Ver1.0
Effective Date: 20-07-2002	Version 1.0	Page No: 2 of 29

9. About Us and Contact Us: This menu option should show your email address, address, and phone number.

10. Color combination must be uniform throughout the project.

11. Navigation must be smooth.

Over and above this, the portal should implement the following functionalities:

- Display a continuous scrolling ticker at the bottom of the page with current date, time, and location (hint: Use geolocation features of HTML5).
- Display a visitor count at the top right corner of the page beside a logo image.
- The menu options should change color on hover and also after clicking.
- Fade in and fade out options can be used for the menus.

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Customer Requirements Specifications	SWD/Form No.02/CRS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 3 of 29

Customer Requirements Specifications

User:

Input:

- Membership data registration
- Car information
- Car offer
- Contact messages

Process:

- Validate membership data registration and save
- Look up car information(brand, model, state, style...)
- Validate offers form
- Validate contact form

Output:

- Registration status
- Chosen car informations
- Car offer status
- Contact status

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Customer Requirements Specifications	SWD/Form No.02/CRS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 4 of 29

Webmaster:

Input:

- Webmaster login
- Action on car data
- Action on registered member

Process:

- Check webmaster login
- Delete/edit/add car data
- Delete/edit/add registered member data

Output:

- Show webmaster state of login
- Show updated data

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Customer Requirements Specifications	SWD/Form No.02/CRS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 5 of 29

Hardware / software requirement:

Software:

Technologies to be used:

- Frontend: HTML5, CSS, Bootstrap, Javascript, jQuery, AngularJS
- Data Store: JSON files

Other Requirements:

- Operating Portal: Windows
- Browsers: Edge, Chrome, Mozilla Firefox, Safari
- Server: XAMPP

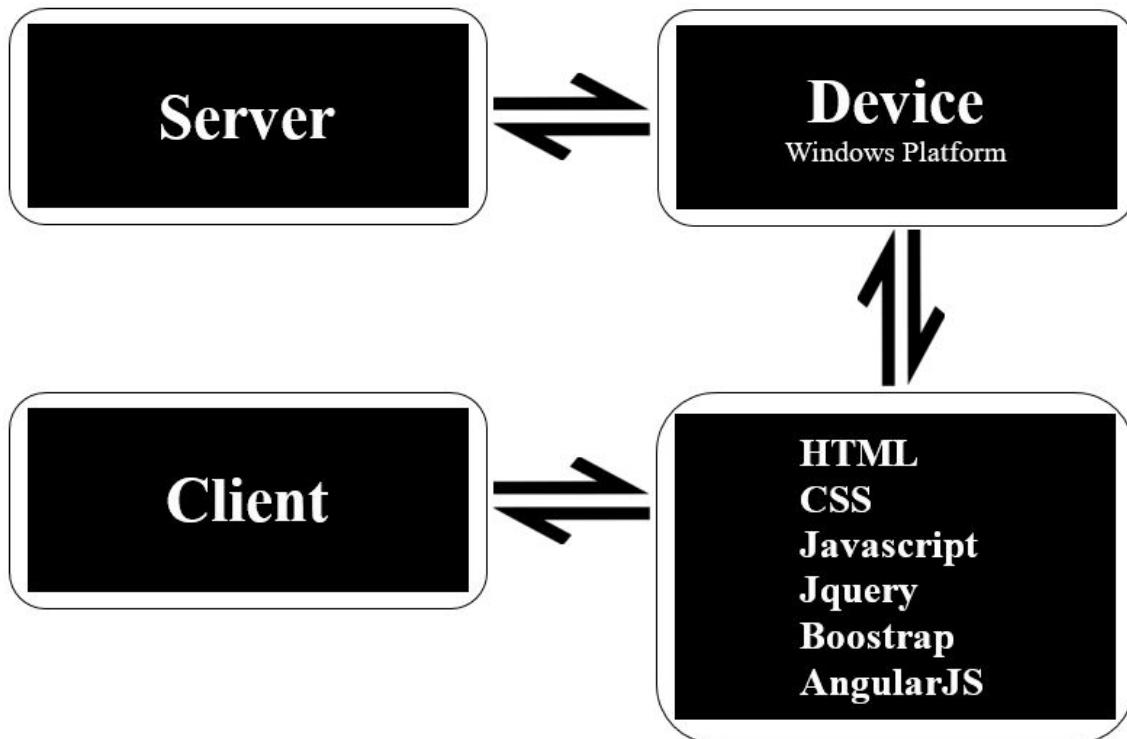
Hardware:

- Intel Core i3/i5 Processor or higher
- 8 GB RAM or above
- Color SVGA
- 500 GB Hard Disk space
- Mouse
- Keyboard

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Architecture and design of the project	SWD/Form No.03/ARD/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 6 of 29

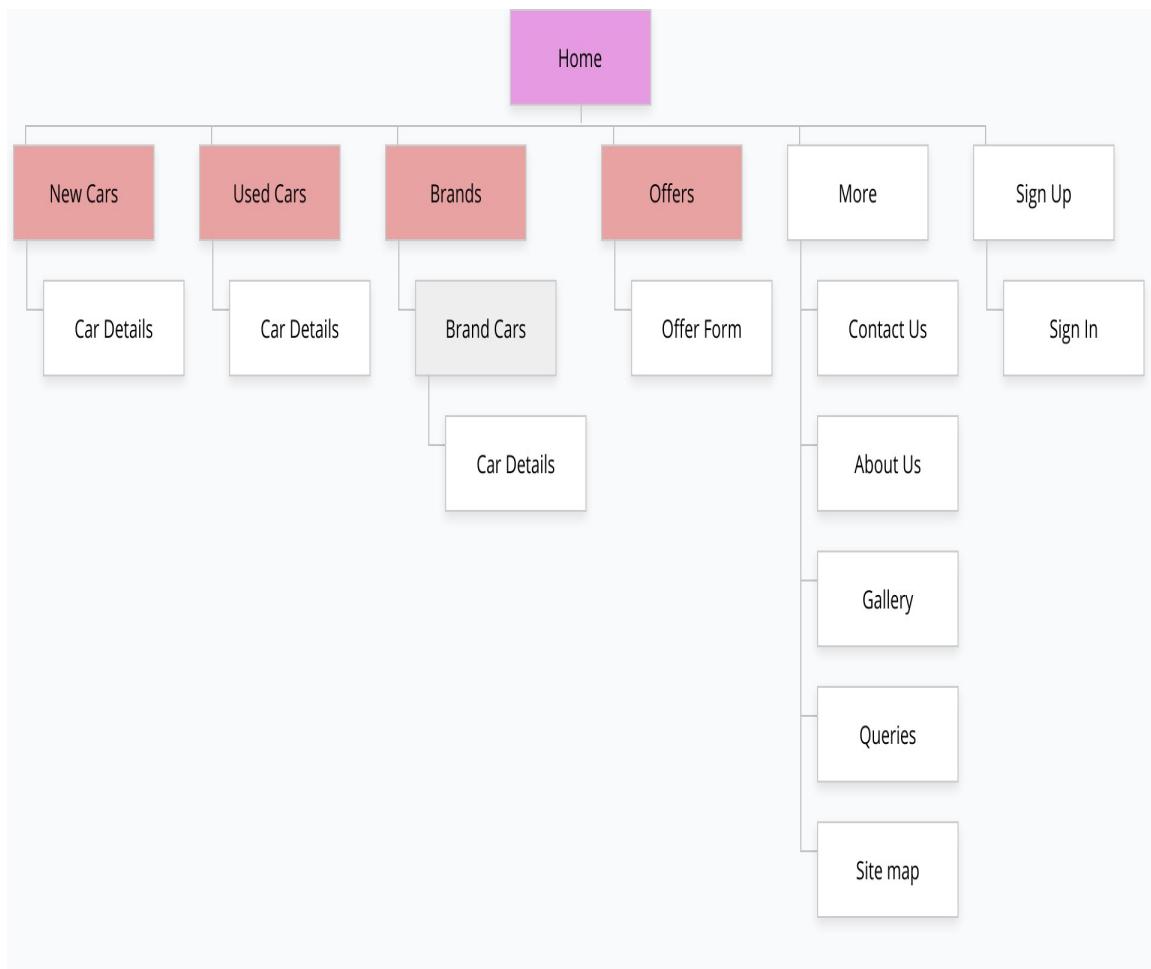
Architecture and design of the project



	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: SiteMap	SWD/Form No.04/SM/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 7 of 29

SiteMap



	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Screenshots	SWD/Form No.05/SS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 8 of 29

Screenshots

I. Header:



Description: The screenshot shows the main header of our web application. It is used to navigate to others pages.

From:

To: New, Used, Brands, Offers, More, About Us, Contact Us, Gallery, Queries, Sitemap, Sign Up.

II. Footer:



Description: The screenshot shows the footer of our web application. It is used to navigate to others pages and display our location and current date, time.

From:

To: New, Used, Brands, Offers , About Us, Contact Us, Gallery, Queries, Sitemap, Sign Up, Sign In.

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Screenshots	SWD/Form No.05/SS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 9 of 29

III. Home:

Find the Car You Want, Your Way
Then, build your deal to fit your needs.

Browse by Brand

New Cars Used Cars

Kia	Honda	Toyota	Porsche
BMW	Mazda	Suzuki	Hyundai
Rolls-Royce		Mercedes-Benz	

Control Your Car-Buying Experience
At CarBreezy, you're in charge of the process from start to finish. Here's how.

Build Your Deal With Confidence
Get a personalized offer from a dealer online, including manufacturer incentives and discounts. Next, build a custom deal that includes the value of your trade-in and monthly payments.

Choose From More than 800,000 Used Cars
Get access to our extensive selection of pre-owned vehicles for sale across the US, and see price ratings based on similar used car listings in your area, so you know when you're getting a great deal.

Description: The screenshot shows the main home page of our web application. It is used to have an overview of the whole website and to navigate to others pages.

From:

To: New, Used, Brands, Offers.

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Screenshots	SWD/Form No.05/SS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 10 of 29

IV. New Cars:

Description: The screenshot shows the car products under new cars listing page. It is used to see all available new cars in different filters.

From: Home

To: Car Details

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Screenshots	SWD/Form No.05/SS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 11 of 29

V. Used Cars:

Used Cars for Sale

Filter

New Cars Used Cars

Brands: All

Model: All

Body Style: All

Price: 25000 to 750000

Exterior Color

Drive type

Engine

Interior Color

Fuel Type

Honda Civic 1.8 E Used	Estimated Price \$35,000	Savings \$0
Toyota Vios 1.5 G CVT Used	Estimated Price \$28,000	Savings \$0
Suzuki Ciaz 1.4 AT Used	Estimated Price \$25,000	Savings \$0
Mazda 3 2.0 AT Used	Estimated Price \$36,000	Savings \$0
Hyundai Elantra 2.0 AT Used	Estimated Price \$33,000	Savings \$0
Hyundai SantaFe 2.2 Used	Estimated Price \$62,000	Savings \$0

MSRP: \$35,000, Vietnam, White, Sedan

MSRP: \$28,000, Vietnam, White, Sedan

MSRP: \$25,000, Vietnam, Brown, Sedan

MSRP: \$36,000, Vietnam, Gray, Sedan

MSRP: \$33,000, Vietnam, Silver, Sedan

MSRP: \$62,000, Vietnam, Blue, SUV

Description: The screenshot shows the car products under used cars listing page. It is used to see all available new cars in different filters.

From: Home

To: Car Details

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Screenshots	SWD/Form No.05/SS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 12 of 29

VI. Brands:

The screenshot displays a car brand listing page with a light blue header bar. On the left is a dropdown menu labeled "All Brands" with a downward arrow icon. On the right is a search bar with the placeholder text "Search". Below the header, a message says "Showing 20 models. Select a model for pricing details." and a "All Models" link. The main content area contains a 2x4 grid of car models. Each model card includes a small image of the car, its name, its category (e.g., Sedan or SUV), its status (e.g., Used), and its starting MSRP.

Model	Type	Status	Starting MSRP
Honda Civic 1.8 E	Sedan	Used	\$35,000
Toyota Vios 1.5 G CVT	Sedan	Used	\$28,000
Suzuki Ciaz 1.4 AT	Sedan	Used	\$25,000
Mazda 3 2.0 AT	Sedan	Used	\$36,000
Hyundai Elantra 2.0 AT	Sedan	Used	\$33,000
Suzuki Ertiga Sport	SUV	Used	\$27,000
Toyota Fortuner Legender 2.8AT	SUV	Used	\$68,000
Honda CR-V 1.5L Special Edition	SUV	Used	\$54,000

Description: The screenshot shows the car products under brand listing page. It is used to see available car models in different brands.

From: Home

To: Car Details

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Screenshots	SWD/Form No.05/SS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 13 of 29

VII. Offers:

The screenshot displays the 'Find the Best Offers' section of a car dealership website. At the top, there are dropdown menus for 'Select Brand' (set to 'Honda') and 'Select Model' (set to 'Honda Civic'). To the right is an image of a silver Honda CR-V. Below the search area, a teal banner highlights the 'Honda Civic'. On the left, there are two buttons: 'Build & Price' and 'View Inventory'. Three separate boxes represent different cash offers for the Honda Civic:

- CASH OFFER**: 2022 Toyota Paralympic Sponsored Athlete Offer. Up to \$5000 Customer Cash. Valid until Exp. 01/02/2023.
- CASH OFFER**: 2022 Toyota Paralympic Sponsored Athlete Offer. Up to \$5000 Customer Cash. Valid until Exp. 01/02/2023.
- CASH OFFER**: 2022 Toyota Paralympic Sponsored Athlete Offer. Up to \$5000 Customer Cash. Valid until Exp. 01/02/2023.

Description: The screenshot shows the offers page. It is used to see available offers for cars in different brands and models.

From: Home

To: Offer Form

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Screenshots	SWD/Form No.05/SS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 14 of 29

VIII. Car Details:

Suzuki Ertiga Sport X



\$27,000

Internal

External

Engine

Dimensions

- Seats: 7
- Fuel: Gasoline
- Drive System: two-axle - 2WD
- Gear: automatic - AT
- Fuel Capacity: 45 Liters
- CC: 1462

Close
Buy now

Description: The screenshot shows the modal of car product pages which include car details. It is used to have access to car's specifications.

From: New, Used, Brands, Offers

To:

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Screenshots	SWD/Form No.05/SS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 15 of 29

IX. Offer Form:

X



2022 Honda Civic

Loan
Exp. 09/06/22

2.9%⁴⁸
APRmonths

2022 Honda Civic Special Financing

- Eligible Dates: 07/06/22 - 09/06/22
- Excludes trims: Si
- May not be available on all styles

[Build & Price](#)

[Close](#)

Description: The screenshot shows the modal of offers page which include offer details. It is used to have access to offer form.

From: Offers

To:

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Screenshots	SWD/Form No.05/SS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 16 of 29

X. More:

a. Contact Us:

Contact us

First Name

Last Name

Enter email

Phone

Address

Your message

Send

Description: The screenshot shows the contact page which gives user a form to contact to CarBreezy.

From: More

To: About Us, Gallery, Queries, Sitemap.

b. About Us:

About us

CarBreezy is a leading automotive digital marketplace that seeks to make car buying and selling easy, transparent and efficient. From discovery to delivery, consumers can use TrueCar to explore new and used vehicles from an expansive, cross-brand selection of inventory from our vast network of Certified Dealers. Founded in 2022, CarBreezy is building a trusted brand and strong reputation for providing consumers with useful tools, research, market context, and price transparency, as they begin their car-buying journey. The company is bringing even more to consumers' online shopping process to find a new or used car that's right for them, secure financing, sell or trade in their current vehicle, and complete their purchase with a reputable dealer that they Home to.

Description: The screenshot shows the About Us page which gives more informations about CarBreezy.

From: More

To: Contact Us, Gallery, Queries, Sitemap.

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Screenshots	SWD/Form No.05/SS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 17 of 29

c. Queries:

The screenshot shows a website's FAQ section. On the left, there's a sidebar with links: Contact Us, About Us, **Queries(FAQ)** (which is highlighted in blue), Gallery, and Site Map. The main content area has a light blue header bar with 'Find More' and a search bar. Below this, there are four expandable sections, each with an upward arrow icon in the top right corner.

- How long does it take to test drive the car?**

It's a **used car** so need to check more things than new car. Moreover, in order to test drive the car while ensuring that the ability to cross corners, go up and downhill, and not affect traffic, it is necessary to have an appropriate location, not a city road. Must be suburban roads, empty of cars. Therefore, buyers should ask for a longer test period to better consider both design, operation and features in the car.
- Can I see my car's maintenance history?**

A **reputable agent** will be ready to provide you with information if needed, otherwise it will be an unreliable car dealer. To avoid fake reports, make sure the number in the service book matches the vehicle's chassis number. With us, you will be provided with a full vehicle maintenance history.
- What is the return policy?**

Although no one wants to have to return a car after buying it, this is an issue that is directly related to the buyer's interests in the event of any trouble. Most agents have a specific return policy: on time, form and no compensation.
- What after-sale services are there?**

Not only selling new cars but also **used car** still have the after-sale service. Such items will be the maintenance policy, service quality, vehicle delivery, repair system, consulting service and procedures when buying a car.

Description: The screenshot shows the Queries page which shows Frequently Asked Questions.

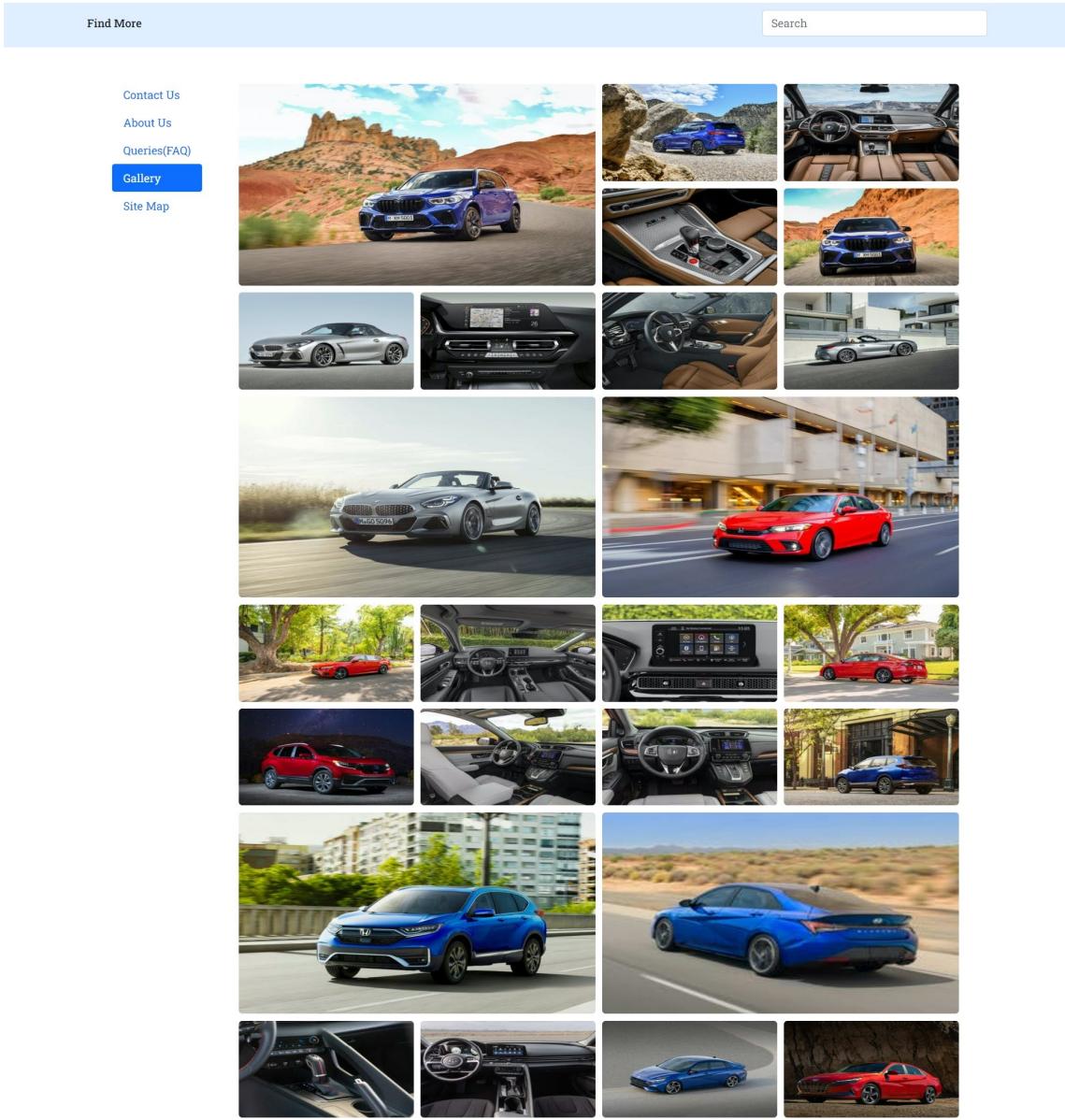
From: More

To: Contact Us, About Us, Gallery, Sitemap.

d. Gallery:

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Screenshots	SWD/Form No.05/SS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 18 of 29



Description: The screenshot shows the Gallery page which display the garniture.

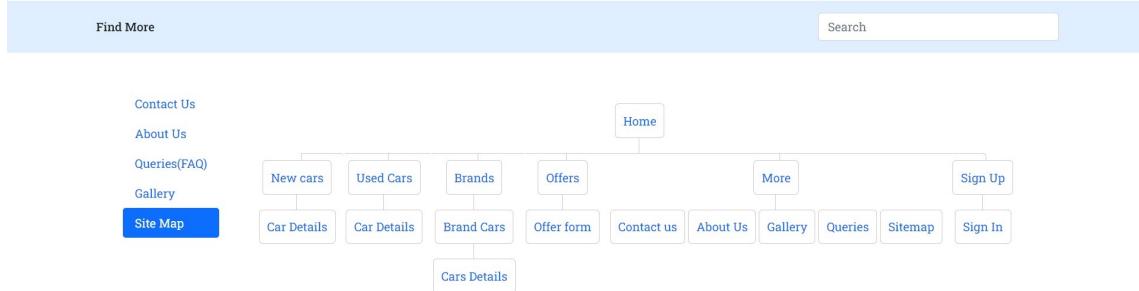
Form: More

To: Contact Us, About Us, Queries, Sitemap.

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Screenshots	SWD/Form No.05/SS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 19 of 29

e. Sitemap:



Description: The screenshot shows the Sitemap page which gives a map of links for user to navigate to a specific place.

From: More

To: Contact Us, About Us, Gallery, Queries, Sitemap.

XI. Sign Up:

The screenshot shows a 'CAR SHOW ROOM' sign with two cars. Below it is a 'Sign in' button. To the right are input fields for 'Your email address', 'Password', 'Confirm password', 'First and last name', and 'Address'. A 'Submit' button is at the bottom.

Description: The screenshot shows the Sign Up page. It is used to register for a user account.

From: Home

To: Sign In

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Screenshots	SWD/Form No.05/SS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 20 of 29

XII. Sign In:



Description: The screenshot shows the Sign In page. It is used to log in a user account.

Form: Sign Up

To: Sign In

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Testing document	SWD/Form No. 06/TD/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 21 of 29

Testing document

Sr.No	Features Tested	Remarks
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Final checklist	SWD/Form No.07/FC/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 22 of 29

Final checklist

Sr.No	Aspected Tested	Suggestion/ Remarks
1	Are all the users able to view the images and links?	
2	Have all the views, modules and controllers been properly integrated and is the site function as a single page application?	
3	Are the GUI content devoid of spelling mistakes?	
4	Is the application user-friendly?	
5	Is the Website launching correctly in all popular browsers?	
6	Are all the forms validated with proper criteria?	
7	Do all text links lead to the appropriate website?	
8	Do all image links lead to the appropriate website?	
9	Are all the images and links clearly visible on the page?	
10	Does the Web page work properly in all the tested browsers?	
11	Does the Web page take too long to be loaded fully?	
12	Is the navigation sequences correct through all the Web pages on the site?	
13	Is the JavaScript code working as expected in all click events?	

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		

Design Plan: CarBreezy	Document Name: Task Sheet	SWD/Form No.08/TS/Ver1.0
Effective Date: 20-07-2022	Version 1.0	Page No: 23 of 29

No	Member	Contents	Page Name	Activity Plan	Date of Preparation of Activity Plan		
				Planned Start Date	Actual Start Date	Actual Days	Status
1	Võ Minh Tú	New Cars	new-cars.html	28/07/2022	30/07/2022	2	OK
2		Used Cars	used-cars.html	28/07/2022	30/07/2022	2	OK
3		Offers	offers.html	28/07/2022	30/07/2022	2	OK
4		Offer-form	offer-form.html	28/07/2022	30/07/2022	2	OK
5		Brands	brands.html	28/07/2022	30/07/2022	2	OK
6		Brand Cars	brand-cars.html	28/07/2022	30/07/2022	2	OK
7		Car Details	car-details.html	28/07/2022	30/07/2022	2	OK
1	Bùi Thanh Yến Phi	Home	home.html	20/07/2022	22/07/2022	2	OK
2		Footer	footer.html	20/07/2022	22/07/2022	2	OK
3		Header	header.html	20/07/2022	22/07/2022	2	OK
4		Gallery	gallery.html	28/07/2022	30/07/2022	2	OK
5		Queries	queries.html	28/07/2022	30/07/2022	2	OK
1	Võ Trọng Tín	More	more.html	28/07/2022	30/07/2022	2	OK
2		About us	about.html	28/07/2022	30/07/2022	2	OK
3		Contact us	contact.html	28/07/2022	30/07/2022	2	OK
4		Sign In	signin.html	28/07/2022	30/07/2022	2	OK
5		Sign Up	signup.html	28/07/2022	30/07/2022	2	OK
1	Phù Tường Vũ	Sitemap	sitemap.html	28/07/2022	30/07/2022	2	OK

	Prepared by (Student) Project Group No: 01	Approved by (Faculty) Le Thanh Nhan
Signature		
Date		