Sri Lanka Institute of Information Technology



IT3060 - Human Computer Interaction

Assignment 3 High Fidelity Prototyping

Group number - 2023-WE-S2-52

Project title - Riyasewana

Group Member Details

Name	Student ID	Workload Distribution
Mendis A.R. P	IT21228094	Search Wanted Page My Account Page Edit Profile Page Change Password Page
JayasingheJ.A.J.M	IT21225574	Home Page Sell Vehicles Page My Favorite Pag
SandaruwanW.M.I.M.	IT21231100	Buy Spare Parts Page Registration Page Login Page
Madhusanka J.A.A.	IT21215292	Edit Ad Wanted Page Delete Ad Wanted Page Add Ad Wanted Page Ads View Page Vehicle Leasing Page
Bhagya P.S.	IT21225024	Contribute Page Contact Us Page Buy Vehicles Page

Table of Content

Contents

Group Member Details	2
Table of Content	3
Introduction	5
Methodology	5
Figma – High Fidelity Prototype Link	6
Record Video Link	6
Variants of Interfaces	6
Task Description	7
IT21228094 – Mendis A.R. P	7
Generate Dummy Data	7
Sample Analysis of Data	7
Test Case	
IT21225574 – JayasingheJ.A.J.M	3
Generate Dummy Data	3
Sample Analysis of Data	g
Test Case	
IT21231100 – Sandaruwan W.M.I.M	g
Generate Dummy Data	
Sample Analysis of Data	10
Test Case	10
IT21215292 – Madhusanka J.A.A	11
Generate Dummy Data	11
Sample Analysis of Data	11
Test Case	12
IT21225024 – Bhagya P.S	12
Generate Dummy Data	12
Sample Analysis of Data	12
Test Case	13
Summary	13
References	14

Gantt Chart	14
Appendix	15
Search Wanted Page	15
My Account Page	16
Edit Profile Page	16
Change Password Page	17
Home Page	18
Sell Vehicles Page	19
My Favorite Page	20
Buy Spare Parts Page	20
Registration Page	21
Login Page	22
Edit Ad Wanted Page	23
Delete Ad Wanted Page	23
Add Ad Wanted Page	24
Ads View Page	25
Vehicle Leasing Page	25
Contribute Page	25
Contact Us Page	25
Buy Vehicles Page	25

***** Introduction

In the dynamic landscape of online vehicle trading platforms, Riyasewana has emerged as a prominent player in Sri Lanka. Their website serves as a hub for individuals looking to buy and sell vehicles, offering the largest collection of vehicles for sale in the country. Committed to enhancing the user experience, Riyasewana has been a valuable connector of potential buyers and sellers since its inception in 2009. This platform not only provides a diverse array of vehicles but also partners with leading financial institutions to bring users the best leasing offers available in Sri Lanka, thus aiming to meet the varying needs of its users.

However, in our assessment of Riyasewana's website, we have identified several areas in need of improvement. The site currently suffers from issues such as excessive whitespace, a lack of cohesive color themes, misalignment, a disorganized footer, and a cluttered navigation bar. These shortcomings have created a less-than-optimal user experience, making it challenging for customers to gain a clear understanding of the services offered. The website's multi-colored, non-cohesive theme and the discordant color scheme further compound these issues, making a thorough redesign essential to enhance user satisfaction and engagement.

To address these challenges and elevate the user experience on Riyasewana, our team has embarked on a Human-Computer Interaction (HCI) project. The primary goal of this project is to revamp the Riyasewana website, with a multifaceted approach. We will start by creating wireframes to outline the website's structure and design, aiming to streamline the user interface. We will also focus on selecting an appealing color palette that resonates with the target audience, ensuring the website is both visually appealing and user-friendly. Our project's journey involves brainstorming sessions, design ideation, participation in HCI module labs and lectures, and the creation of prototypes, all with the aim of delivering an enhanced online experience for Riyasewana's users.

Methodology

n this project, we'll revamp Riyasewana's website for a better user experience. We start by analyzing the current site's issues and gathering input from users and stakeholders. Then, we create wireframes and high-fidelity designs, making sure to improve color themes, alignment, and overall design. We'll test prototypes with users, refine based on their feedback, and select an appealing color palette. Next, we work with the development team to implement the design while maintaining alignment and color standards. After training the Riyasewana team, we'll monitor the website post-launch, ensuring it continues to provide an improved user experience.

Figma – High Fidelity Prototype Link

https://www.figma.com/file/knpQXQmu6K0KaZa5EJZh0D/Untitled?type=design&node-id=10%3A34&mode=design&t=W5hNOjn6M9cDEB8w-1

Record Video Link

 $https://drive.google.com/drive/folders/1DJ4879dTunT7AO6KJOXdJDcZfDDW_Cem?usp=share_link$

Variants of Interfaces

IT Number	Name	Interface
IT21228094	Mendis A.R. P	Search Wanted Page
		My Account Page
		Edit Profile Page
IT21225574	JayasingheJ.A.J.M	Home Page
		Sell Vehicles Page
		My Favorite Pag
IT21231100	SandaruwanW.M.I.M	Buy Spare Parts Page
		Registration Page
		Login Page
IT21215292	Madhusanka J.A.A.	Edit Ad Wanted Page
		Delete Ad Wanted Page
		Add Ad Wanted Page
		Ads View Page
		<u>Vehicle Leasing Page</u>
IT21225024	Bhagya P.S.	Contribute Page
		Contact Us Page
		Buy Vehicles Page

Task Description

Test Case

Mendis A.R.P. - IT21228094

Test plan for Search Wanted Page, My Account Page, Edit Profile Page, Change Password Page

- What is being tested (features & tasks)
 - I. User can easily change the password
 - II. My profile is easily set up for the user
 - III. User contact information is clearly visible
 - IV. By using the filter system, you can easily find the relevant vehicle type or other types.
 - V. Images and buttons are clearly visible
 - VI. Users can find latest vehicles by using filter.
 - VII. Users can edit their profile without changing their username
 - VIII. Users can easily use the filter and delete it if they don't want it
 - How it is going to be measured
 - I. If the user wants to change the password, enter a new password and click the Save button to change it, it will pass. Otherwise it fails
 - II. If my profile is easily identifiable to the user, it's a pass. Otherwise it is a failure.
 - III. If user contact information is clearly visible, it fails. Otherwise it is passed
 - IV. By using the filter system, it is a pass if you can easily find the relevant vehicle type or other types. Otherwise it is a failure
 - V. The user finds the relevant item on the given (searchable) page, clicks on it and goes to its more details page. Otherwise, it failed
 - VI. If the images, colors and words are clear, it fails. Otherwise it is passed
 - VII. If users can easily use the filter and delete it if they don't want it, it's a pass. Otherwise it is a failure.

Generating dummy data

Name of the participant	Features 1 / Tasks 1	Features 1 / Tasks 1	Features 1 / Tasks 1	Note
Buyer	Go to my profile and edit the contact information and click the save button	My profile and contact information And change password and click save button	Click on the navigation bar Services drop-down to go to its Search want page	All the tasks are passed.
seller	Go to home page and go to navigation bar, go to services drop down and click search wanted page	Go to the search page, use the filter and select a vehicle of your choice	After that, select the vehicle model and view the relevant vehicle type	All the tasks are passed.
Unregister user	After that, select the vehicle model and view the relevant vehicle type	View the vehicle information and click the back button to navigate back to the vehicle type page	After finding information about that type of vehicle, click on the delete button	All the tasks are passed.

Total number of tasks = 12

Total number of successful tasks = 12

Success rate = 100%

Sample analysis of data

Prototype screen/	User's feedback /	Reasons for	Severity	Way(s) to rectify
UI	Problem	negative	(high/medium/low)	& any tradeoffs
		feedback	& justification.	
Change password	No negative	None	None	None
page	feedback was			
	given.			
My account	No negative	None	None	None
pages	feedback was			
	given.			
Search wanted	No negative	None	None	None
page	feedback was			
	given.			
Edit profile page	No negative	None	None	None
	feedback was			
	given.			

IT21225574 - Jayasinghe J.A.J.M.

Generate Dummy Data

Name of the participant	Features 1 / Tasks 1	Features 2 / Tasks 2	Features 3 / Tasks 3	Note
Unregistered User	Click on popular car brand and type of image slider.	Click on all drop downs and search the vehicle.	Click on the riyasewana video.	All the tasks are passed.
Buyer	Click on the selected favourite item.	Click on "Delete All Sold" button.	Click on the next page button.	All the tasks are passed.
Seller	Click the "Post" button in generate preview page	Select the item type to sell.	Click on the "Post" button in genereted preview .	All the tasks are passed.

Total number of tasks = 9

Total number of successful tasks = 9

Success rate = 100%

Sample Analysis of Data

Prototype screen/ UI	User's feedback / Problem	Reasons for negative feedback	Severity (high/medium/low) & justification.	Way(s) to rectify & any tradeoffs
Home Page	No negative feedback was given.	None	None	None
My Favourite pages	No negative feedback was given.	None	None	None
Selling Page	No negative feedback was given.	None	None	None

Test Case

Test plan for Home Page, Sell Vehicles Page, My Favorite Page

- What is being tested (features & tasks)
 - IX. Click on all drop downs and search the vehicle..
 - X. Click on Popular car brand and types of image slider.
 - XI. Click on the riyasewana vehicle selling video.
 - XII. Click on the selected favorite item.
 - XIII. Click on "Delete All Sold" button.
 - XIV. Click on the next page pagination button.
 - XV. Click on the "Add Part" button in the Add Your Spare Parts / Accessories.
 - XVI. Click on the "post" button in generated preview.
 - XVII. Select the item type to sell.
 - How it is going to be measured
 - **I.** Once the user clicks the drop-down different types of vehicles list can be seen.
 - **II.** After the user clicks the Popular car brand and types image slider vehicles are moves like a loop.
 - **III.** The video should play after the user clicks.
 - **IV.** Once clicked the user can see the full description of the selected item.
 - V. After the user clicks the "Delete All Sold" button. All sold items will be deleted.
- VI. After the clicked on the button. The page changes to the second selected favorite item page.
- VII. After clicking the add part button, the ad preview will be generated from the entered details.
- VIII. Once clicked on the "post" button will display this message "Your selling ad is pending. Please confirm your number by sending an SMS with your name to 0766044488."
- **IX.** Once select the item type and clicked search button page will navigate to the form.

IT21231100 - Sandaruwan W.M.I.M.

Generate Dummy Data

Name of the	Feature/Task1	Feature/Task2	Feature/Task3	Note
Participants Registered User	Click the login button on home page	Enter email and the password	Click the login button	All the tasks are passed.
Unregistered User	Click the register button on the home page.	Fill in the register form by entering asked details	Click the register button	All the tasks are passed.
Buyer	Click spare parts button in the navigation	Drop down to view more adds.	Try to view more details by clicking an each add	All the tasks are passed.
Seller	Click add any part or accessory button	Select helmets	Navigate to all helmets category page	All the tasks are passed.

Total number of tasks = 9

Total number of successful tasks = 9

Success rate = 100%

Sample Analysis of Data

Prototype screen/UI	User's feedback/Problem	Reason for negative feedback	Severity (high/medium/low) and justification	Way(s) to rectify and any tradeoffs
Login	Clear layout content nicely arranged	-	-	-

Register	User satisfied, content is well arranged and user friendly.	-	-	-
Buy Spare parts	·	-	-	-

Test Case

Test plan for Login Page, Register Page, Buy Spare Parts Page

- What is being tested (features & tasks)
 - I. A clean and intuitive design that's easy to navigate.
 - II. A well-designed login page, user-friendly and include features like login with google and Facebook.
 - III. A straightforward, step-by-step process to guide users through registration.
 - IV. The option to register using social media accounts for a quicker registration process.
 - V. User needs to give only few data types to register.
 - VI. Clear and concise list of adds of vehicle parts are displayed.
 - VII. Advanced search and filtering options for buyers to narrow down their search based on criteria like Accessary type, brand, price range, and condition.
 - VIII. Display a gallery of high-resolution images for showcase to the buyer.
 - IX. List the spare part's specifications and features, such as useability features, technology, and any optional add-ons.
 - How it is going to be measured
 - I. By using an email and a password which has already registered, logging to the system.
 - II. If the user can login without an error the login is successful. Otherwise, it is failed. There will be issue in login or the email and the password will not match.
 - III. Collect user information during registration and analyse the types of information users are willing to provide.
 - IV. Need to use a password with minimum of eight characters. If not, user cannot register.
 - V. The given password must reenter again to confirm password. If the passwords are not matching the user cannot register.
 - VI. By using the advanced filter in the side of spare parts page, it is passed if the filtered outputs are displayed. Otherwise, it is failed.
 - VII. If users can easily use the filter and delete it if they don't want it, it's a pass. Otherwise, it is a failure.

IT21215292 - Madhusanka J.A.A.

Madhusanka J.A.A -IT21215292

Test plan for Edit Ads Page, Delete Ads Page, Ads View Page, leasing offer page Test plan for Search Wanted Page, My Account Page, Edit Profile Page, Change Password Page

- What is being tested (features & tasks)
 - X. Select the leasing offer page in the navigation bar.
 - XI. Fill all required details to the leasing offers forrm.
 - XII. Click the leasing offer button .
 - XIII. Fill the required data in add wanted add form
 - XIV. . click the "vehicle types" drop down.
 - XV. Click "ok" preview ad.
 - XVI. click the delete button in selected vehicle
 - XVII. click the delete button in delete pop up message
 - XVIII. Click the "add wanted ad" button
 - How it is going to be measured
 - VIII. Navigate to the leasing offers page home page.
 - IX. input fields are filed with input data leasing offer page.
 - X. After clicked the button page will and navigate to the leasing offer form page.
 - XI. Once fill the required data input filed are filed with the required data.
 - XII. Once the user clicks the drop-down different types of vehicles list can be seen
 - XIII. After the clicked on the "ok" button. and navigate to my ads page.
 - XIV. After clicking the "delete "button, page shows pop ups massage for confirmation to delete.
 - XV. Once clicked on the "delete" button in pop-up message selected item will permanently delete.
 - XVI. Once Click the"add wanted ad"button page will navigate to the add wanted page.

Name of the participant	Features 1 / Tasks 1	Features 1 / Tasks 1	Features 1 / Tasks 1	Note
Unregister user	Select the leasing offer page in the navigation bar.	Fill all required details to the leasing offers.	Click the leasing offer button	All the tasks are passed.
Buyer	Fill the required data in add wanted add form	Click the"Vehicle Types" Drop down	Click "OK" preview ad	All the tasks are passed.
seller	click the "Delete" button in selected vehicle and delete it.	Click the "Delete" button in delete pop up message. vehicle type page	lick the"Add Wanted Ad"button	All the tasks are passed.

Total number of tasks = 9

Total number of successful tasks = 9

Success rate = 100%

Sample analysis of data

Sample Analysis of Data

Prototype screen/	User's feedback /	Reasons for	Severity	Way(s) to rectify
UI	Problem	negative	(high/medium/low)	& any tradeoffs
		feedback	& justification.	
Edit Ads Wanted	No negative	None	None	None
page	feedback was			
	given.			
Add ads Wanted	No negative	None	None	None
page	feedback was			
	given.			
Delete Ads	No negative	None	None	None
Wanted page	feedback was			
	given.			
easing Offer page	No negative	None	None	None
	feedback was			
	given.			

Test Case

Test plan for Edit Ad Page, Delete Ad Page,

- What is being tested (features & tasks) Ad View Page
 - I. Select the leasing offer page in the navigation bar.
 - II. Fill the all required details to the leasing offers form.
 - III. Click the leasing offer button.
 - IV. Fill the required data in add wanted add form.
 - V. click the "vehicle types" drop down.
 - VI. Click "ok" preview ad.
 - VII. click the delete button in selected vehicle
 - VIII. click the delete button in delete pop up message.
 - IX. Click the "add wanted ad" button
 - How it is going to be measured
 - **I.** Navigate to the leasing offers page home page.
 - II. input fields are filed with input data leasing offer page.
- **III.** After clicked the button page will and navigate to the leasing offer form page.
- **IV.** Once fill the required data input filed are filed with the required data.
- **V.** Once the user clicks the drop-down different types of vehicles list can be seen.
- **VI.** After the clicked on the "ok" button. and navigate to my ads page.
- **VII.** After clicking the "delete "button, page shows pop ups massage for confirmation to delete.
- VIII. Once clicked on the "delete" button in pop-up message selected item will permanently delete.
- **IX.** Once Click the "add wanted ad" button page will navigate to the add wanted page.

IT21225024 - Bhagya P.S.

Generate Dummy Data

Name of the	Feature/Task1	Feature/Task2	Feature/Task3	Note	
Participants					
Registered User	Click on the selected "Contribute" link.	Fill contribute form and clicks on contribute button.	Clicks on pay button to donate money via online payment method.	All the tasks are passed.	
Seller	Click on the "send message" button to send question and messages.	Verify that users are able to enter their name, email and message	Ensure that the page is accessible to all registered and unregistered users.	All the tasks are passed.	
Buyer	Clicks on "Buy Vehicles " link in the navigation bar.	Find the appropriate vehicle type or additional types with ease via the filter system	Clicks on Delete button and delete detailed information about a selected vehicle.	All the tasks are passed.	

Total number of tasks = 9

Total number of successful tasks = 9

Success rate = 100%

Sample Analysis of Data

Prototype screen/ UI	User's feedback / Problem	Reasons for negative feedback	Severity (high/medium/low) & justification.	Way(s) to rectify & any trade-offs		
Contribute Page	No negative feedback was given.	None	None	None		
Contact Us pages	No negative feedback was given.	None	None	None		

Buy Vehicles Page	No negative	None	None	None
	feedback was			
	given.			

Test Case

Test plan for Buy vehicle page, Contribute Page, Contact Us page

- What is being tested (features & tasks)
 - I. Clicks on "Buy Vehicles" link in the navigation bar.
 - II. Find the appropriate vehicle type or additional types with ease via the filter system.
 - III. Clicks on Delete button and delete detailed information about a selected vehicle.
 - IV. Click on the selected "Contribute" link.
 - V. Fill contribute form and clicks on contribute button.
 - VI. Clicks on pay button to donate money via online payment method.
 - VII. Click on the "send message" button ton send question and messages.
 - VIII. Verify that users are able to enter their name, email and message
 - IX. Ensure that the page is accessible to all registered and unregistered users.

How it is going to be measured

- I. Measurement: Check the ability of users to find particular vehicle type easily using filters.
 - Pass: If users could use the filters quickly figure out the type of vehicle they want. Or else fail.
- II. Measurement: Analyse whether the written content, images, and colours of the vehicles are clear and easy to understand.
 - Pass: if users are able to understand the text content, colours, and images with clearly. Or else fail.
- III. Measurement: Check if filters are simple for users to use and remove.
 - Pass: If users can apply filters and remove them without complications. Or else fail
- IV. Measurement: Test to see if users make monetary contributions.Pass: whether users are able to complete the contribution process without difficulty.Or else fail.
- V. Measurement Validate the payment processing security.
 Pass: If proper practises are followed and payment processing is secure.
 Or else fail.

- VI. Measurement: Verify that the contact form is operating properly.

 Pass: If users should have difficulty inputting their name, email address, and message.

 Or else fail.
- VII. Measurement: Verify if the page's text, colours, buttons and images are all clear. Pass: if the texts, pictures, and colours are readable, clickable and eye-catching. Or else fail.

Summary

In this session, we introduced our project by pointing up the Riyasewana website's problems and its structural flaws. In order to identify the most troublesome website, we then examined a number of underperforming websites in the automotive marketplace. Following the selection of our target website, we carefully categorized and identified three different stakeholder groups, each of which had its own set of needs and usability problems. This stage prepared the path for our website makeover by offering helpful data on the different needs of primary, secondary, and tertiary users.

After that, we started the redesign process by making thorough wireframes for the desktop user interfaces. The most appropriate wireframe was chosen after careful consideration of two different interface variations. To transform these wireframes into visually beautiful and user-friendly interfaces, Figma was used as our design tool. Our project went above and beyond design, requiring the production of a thorough video presentation to highlight the features and capabilities of the new interface. In addition, we provided Figma interactive prototypes that let visitors explore and navigate the redesigned Riyasewana website. We concluded the project successfully and delivered a detailed report summarizing our work in the closing phases by clearly outlining the features and navigation of the new interface.

References

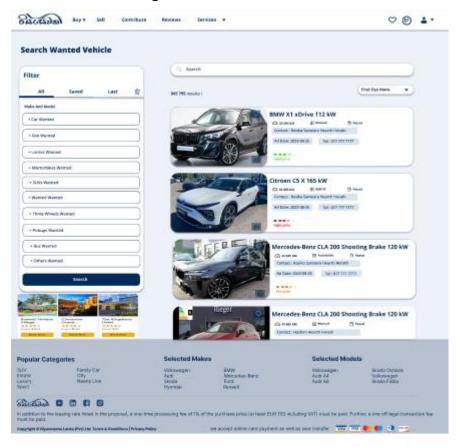
https://lecturecapture.sliit.lk/eplayer.php?id=NEROakxoczIYNI81NDQ1OA==
https://help.figma.com/hc/en-us

Gantt Chart

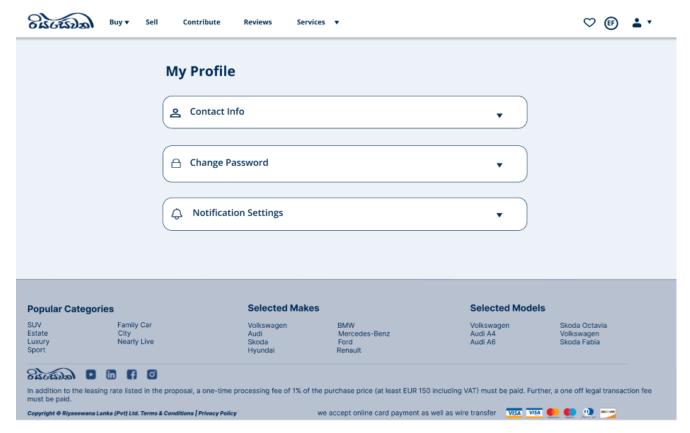
		Au	gust			Sept	ember		October				November	
Task	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week10	Week11	Week12	Week13	Week14
Registration and project topic selection														
Identifying useability issues								R						
Designing personas								5						
Scripting contextual inquires														
Documenting								88						
Activity 1 Submitting								10						
Designing paper sketches						9								
Justifying pros & cons			Ĭ ,											
Identifying techniques														
Planning														
Documenting								0.						
Activity 2 Submitting														
Design high fidelity prototyping								0					1	
Making video demonstration								W						
Implementing our project														
Activity 3 Submitting								3						
Making final project								8						
Final Presentation														

Appendix

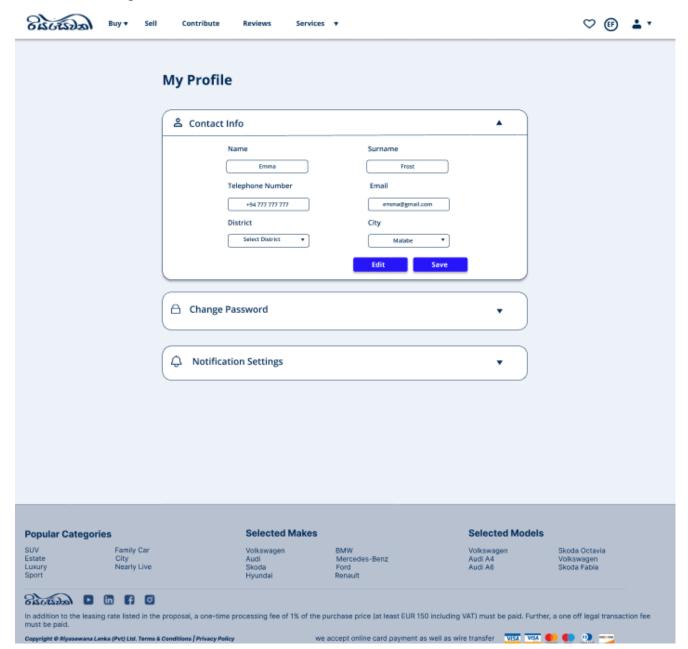
Search Wanted Page



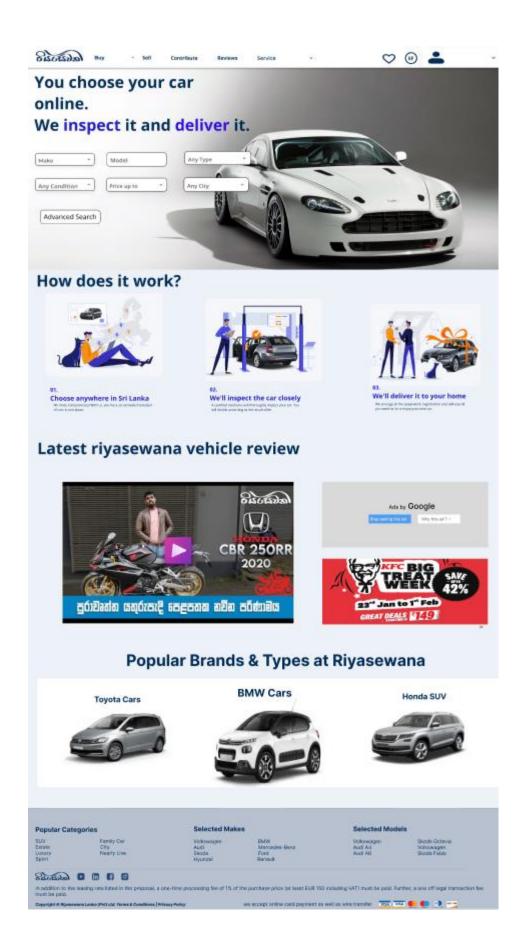
My Account Page



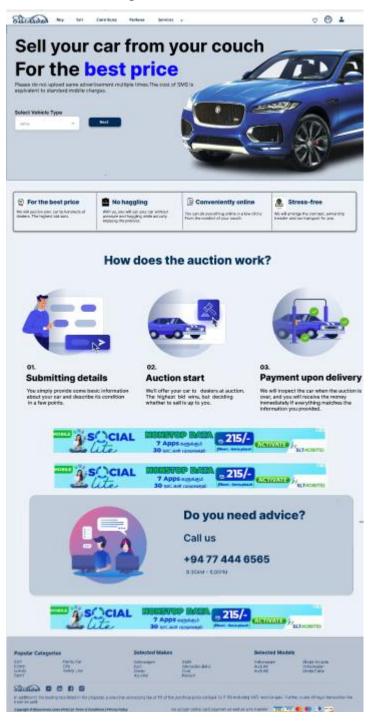
Edit Profile Page



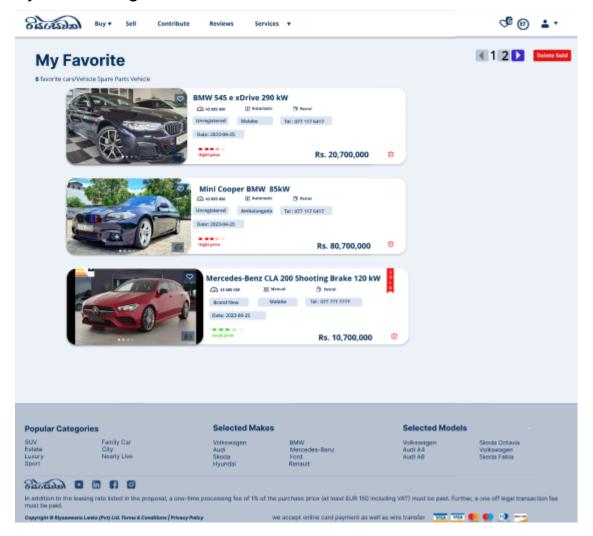
Home Page



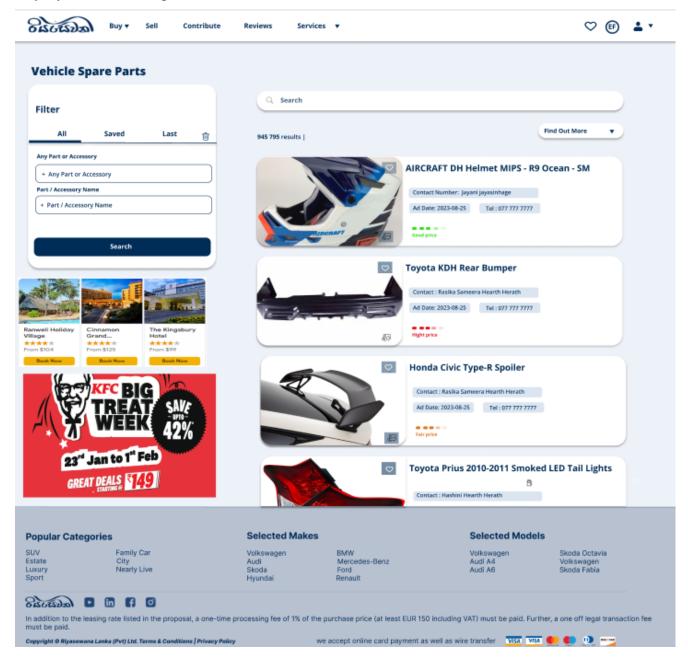
Sell Vehicles Page



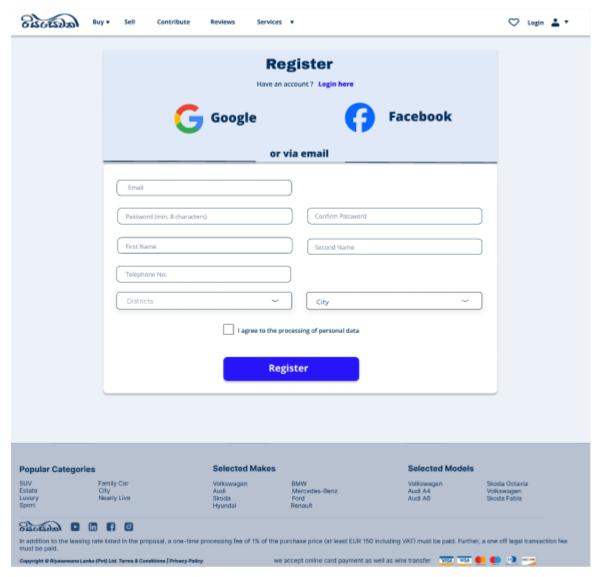
My Favorite Pag



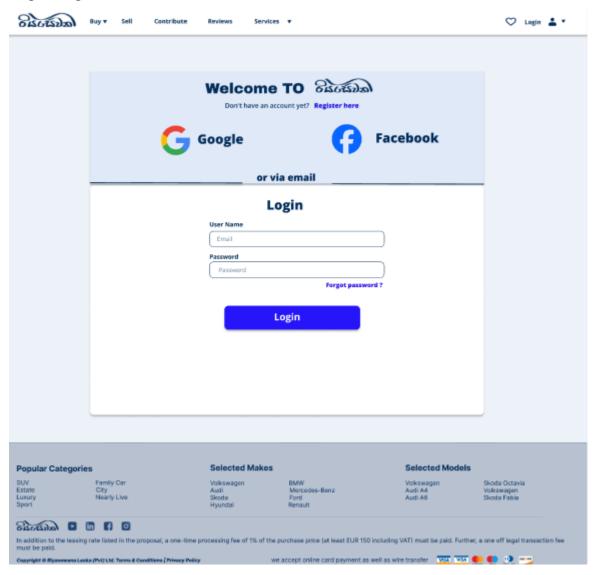
Buy Spare Parts Page



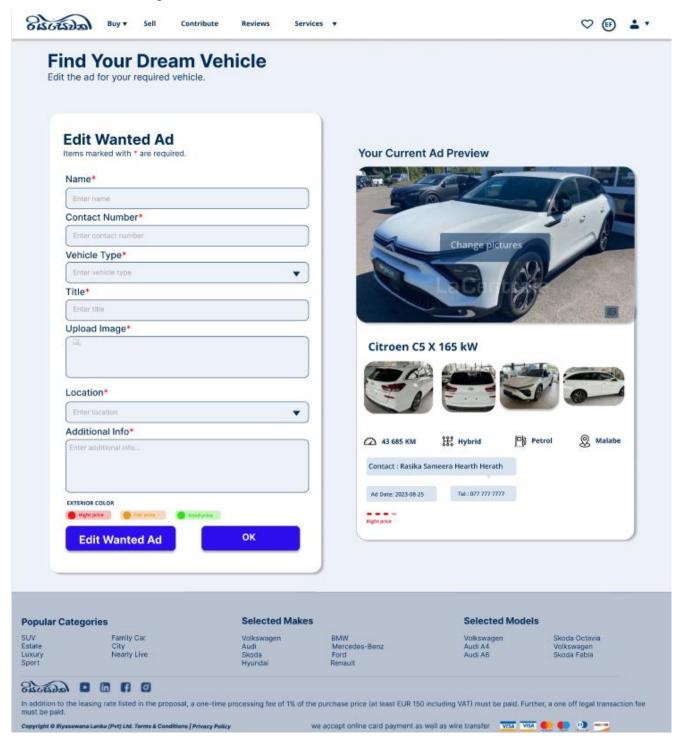
Registration Page



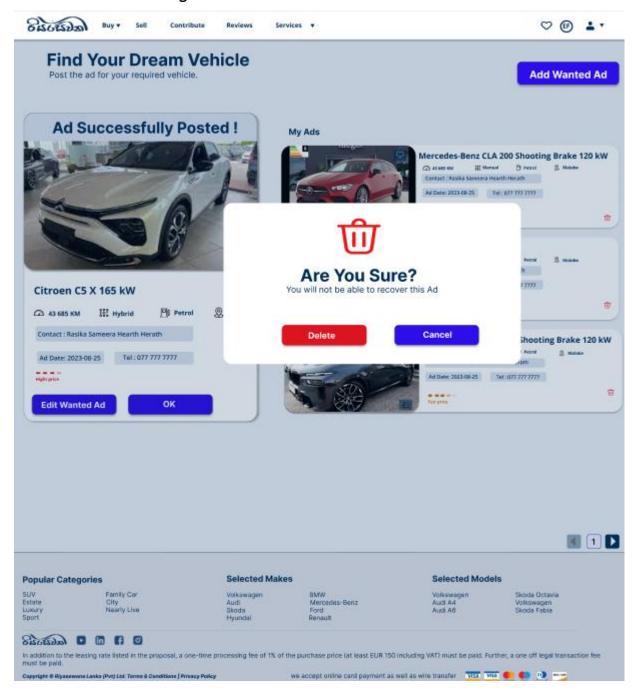
Login Page



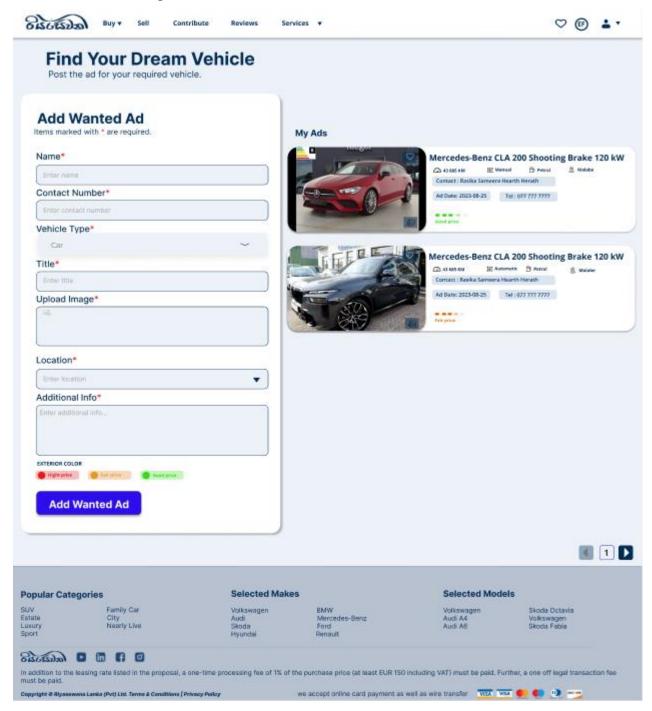
Edit Ad Wanted Page



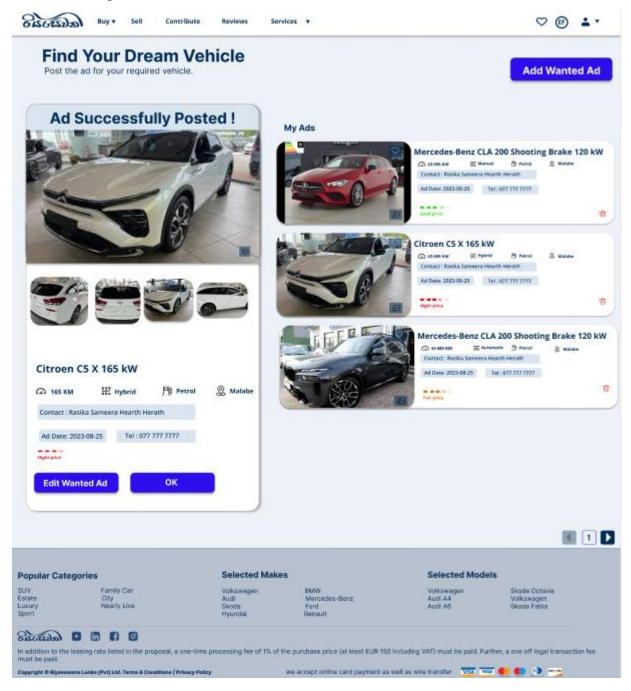
Delete Ad Wanted Page



Add Ad Wanted Page



Ads View Page

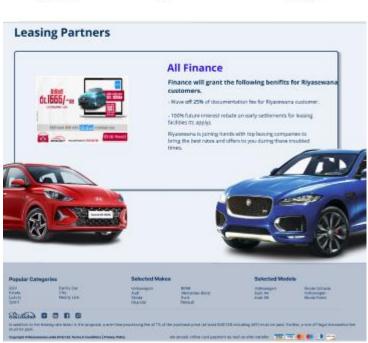


Vehicle Leasing Page

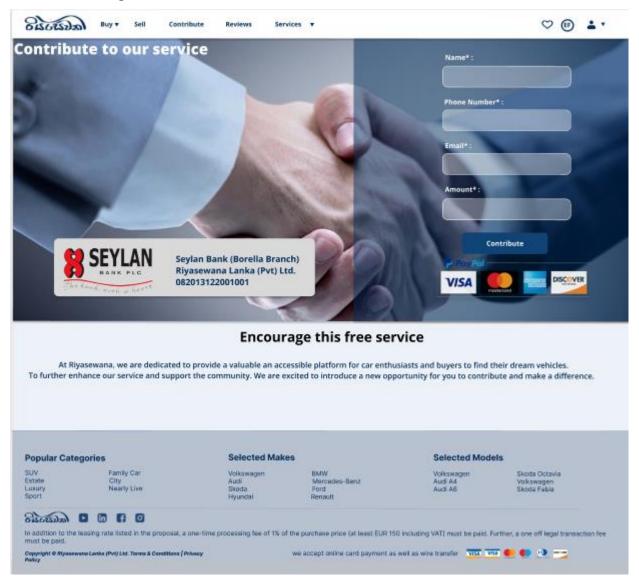


How does Riyasewana Leasing work?

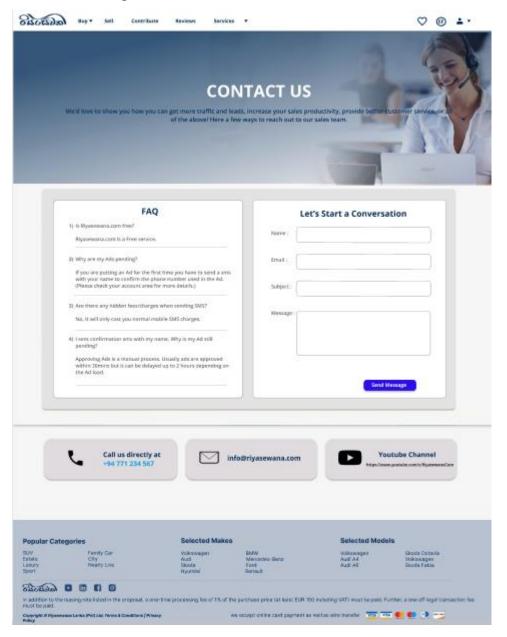




Contribute Page



Contact Us Page



Buy Vehicles Page

