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Contents

[INTRODUCTION 1](#_Toc84842099)

[PROCEDURE 2](#_Toc84842100)

[IMPLEMENTATION 2](#_Toc84842101)

[1. FRONT END 2](#_Toc84842102)

[PROCEDURE OUTCOME 17](#_Toc84842103)

[CONCLUSION 17](#_Toc84842104)

# INTRODUCTION

Cheki is a simple user interface for trading of vehicles on an e-commerce platform. Cheki is developed to solve the following problem statement.

**Create a react js application with user defined components and a good hierarchy for passing state from top level JSX elements to lower level JSX elements. The program should allow contacting of support team through a live bot, registering of new users and efficient logging into the site, unique privileges for dealers registering to the website, display new cars, insurance companies, allow car loans, view other user reviews and a dedicated news article page on vehicles.**

Cheki allows users to interact quickly with a vast number of vehicle owners through a fast interface, view most purchased cars, view newly uploaded vehicle offers, view specific vehicle dealers and get offers from them, filter vehicles by their type, location available and finally view others reviews. In conclusion, the Cheki platform allows users to interact widely with long time professionals in the vehicle market.

# PROCEDURE

1. Create a user friendly navigation bar at the top that prompts users to login and allows contacting of the support team register new users, login new users and finally log in a dealer with expanded privileges.
2. Create a navigation bar that allows jumping to sections of the page or specific services. The navigation bar should allow jump to new cars section, view vehicle insurers, take car loans, view leading dealer in terms of sales, write and read reviews and see a dedicated vehicle news feed.
3. In the navigation bar above create two distinct buttons to add a car and to save a car
4. Create a search form that allows filtered search by make, model, year and price of the vehicle
5. Create a hub to view top purchased items under featured cars
6. Create a hub to view newly added vehicles
7. Create a hub to view list of dealers and show the leading vehicle dealer in terms of sales.
8. Create a hub to list all types of vehicles available. For example, salon cars, 4WD cars or electric cars
9. Create a hub to list address locations of vehicle dealers and cost estimates
10. Create a hub to allow users to write reviews on the services offered in the website
11. Create a hub that allows users to view the latest news in a dedicated feed on vehicles
12. Create a hub to show a brief description and link the users to support team
13. Create a popup that is hidden by default to allow context sensitive menu. For example, checkout operations menu.

# IMPLEMENTATION

1. **FRONT END**

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<meta name="author" content="greatsilas23">

<title>Vehicles for Sale in Kenya</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<div id="parent\_div">

<!-------------------HIDDEN DIALOG BOXES----------------------->

<!---------------------CARD DIALOG BOX------------------------>

<div id="popup" class="card\_dialog\_box">

<center>

<hr>

<p>PURCHASE ITEM</p>

<hr>

<img src="./img2.jpg" width="600" height="300" alt=""><br>

<p>Price: Ksh. 1,800,00</p>

<button>ADD TO CART</button>

<button onclick="displayMain()">CLOSE</button>

</center>

</div>

<!---------------------DEALER DIALOG BOX------------------------>

<div id="dealer\_popup" class="dealer\_dialog\_box">

<center>

<img src="./img\_dealer\_1.png" width="250" height="150" alt="">

<h4>NISSAN</h4>

<hr>

<div class="vehicle\_cards\_holder" >

<div class="card" onclick="displayMain()">

<img src="./img\_car.jpeg" width="250" height="150" alt="">

<div class="container">

<h3><b>Toyota Land Cruiser</b></h3>

<p>Ksh. 800,000</p>

</div>

</div>

<div class="card" onclick="displayMain()">

<img src="./img4.jpg" width="250" height="150" alt="">

<div class="container">

<h3><b>Toyota Land Cruiser</b></h3>

<p>Ksh. 1,200,000</p>

</div>

</div>

<div class="card" onclick="displayMain()">

<img src="./img5.jpg" width="250" height="150" alt="">

<div class="container">

<h3><b>Toyota Land Cruiser</b></h3>

<p>Ksh. 1,700,000</p>

</div>

</div>

<div class="card" onclick="displayMain()">

<img src="./img5.jpg" width="250" height="150" alt="">

<div class="container">

<h3><b>Toyota Land Cruiser</b></h3>

<p>Ksh. 1,700,000</p>

</div>

</div>

</div>

<button onclick="displayDealer()">CLOSE</button>

</center>

</div>

<!---------------------VEHICLE TYPE DIALOG BOX------------------------>

<div id="vehicle\_type\_popup" class="vehicle\_type\_dialog">

<center>

<img src="./car\_type\_3.png" width="215" height="160" alt="">

<h4>4WD Vehicles</h4>

<hr>

<div class="vehicle\_type\_card\_holder">

<div class="card" onclick="displayMain()">

<img src="./img\_car.jpeg" width="250" height="150" alt="">

<div class="container">

<h3><b>Toyota Land Cruiser</b></h3>

<p>Ksh. 800,000</p>

</div>

</div>

<div class="card" onclick="displayMain()">

<img src="./img4.jpg" width="250" height="150" alt="">

<div class="container">

<h3><b>Toyota Land Cruiser</b></h3>

<p>Ksh. 1,200,000</p>

</div>

</div>

<div class="card" onclick="displayMain()">

<img src="./img5.jpg" width="250" height="150" alt="">

<div class="container">

<h3><b>Toyota Land Cruiser</b></h3>

<p>Ksh. 1,700,000</p>

</div>

</div>

<div class="card" onclick="displayMain()">

<img src="./img5.jpg" width="250" height="150" alt="">

<div class="container">

<h3><b>Toyota Land Cruiser</b></h3>

<p>Ksh. 1,700,000</p>

</div>

</div>

</div>

<button onclick="displayVehicleTypes()">CLOSE</button>

</center>

</div>

<!------------VISIBLE ELEMENTS ON THE PAGE------------------>

<!-------------------------TOP AREA--------------------------------->

<div id="top\_bar">

<div id="item\_1\_1" >

<a href="#contact\_us">Contact us</a>

</div>

<div id="item\_1\_2" onclick="display\_registration()">

<a>Register</a>

</div>

<div id="item\_1\_3" onclick="display\_login()">

<a>Login</a>

</div>

<div id="item\_1\_4" onclick="display\_dealer\_login()">

<a>Login Dealer</a>

</div>

</div>

<!-----------------------NAVIAGTION AREA------------------------------>

<div id="top\_bar\_2">

<!-------------MORE HIDDEN POPUP DIALOGS-->

<!--LOGIN POPUP-->

<div id="login\_form">

<form id="login\_details\_form" onsubmit="event.preventDefault()" autocomplete="off">

<label>E-mail or Username</label><br>

<input id="login\_usr\_name\_or\_email" type="text" placeholder="example: jdoe@gmail.com"><br>

<label>Password</label>

<input id="login\_usr\_pass" type="password" placeholder="example: \*\*\*\*"><br>

<center>

<button onclick="authenticate\_login()">Log In</button>

</center>

<p id="var\_err"></p>

</form>

</div>

<!--REGISTER POPUP-->

<div id="register\_form">

<form id="register\_details\_form" onsubmit="event.preventDefault()" autocomplete="off">

<label>First Name</label><br>

<input id="usr\_fname" type="text" placeholder="example: John"><br>

<label>Last Name</label><br>

<input id="usr\_lname" type="text" placeholder="example: Doe"><br>

<label>Pick a Username</label>

<input id="usr\_name" type="text" placeholder="example: jdoe"><br>

<label>E-mail</label><br>

<input id="usr\_email" type="text" placeholder="example: jdoe@gmail.com"><br>

<label>Password</label>

<input id="usr\_pass" type="password" placeholder="example: \*\*\*\*"><br>

<label>Confirm Password</label>

<input id="usr\_pass\_confirm" type="password" placeholder="example: \*\*\*\*"><br>

<center>

<button onclick="register\_user()">Register</button>

</center>

</form>

</div>

<!--DEALER LOGIN POPUP-->

<div id="dealer\_form">

<form id="login\_details\_form" onsubmit="event.preventDefault()" autocomplete="off">

<label>E-mail or Username</label><br>

<input id="login\_usr\_name\_or\_email" type="text" placeholder="example: jdoe@gmail.com"><br>

<label>Password</label>

<input id="login\_usr\_pass" type="password" placeholder="example: \*\*\*\*"><br>

<center>

<button onclick="authenticate\_login()">Log In</button>

</center>

<p id="var\_err"></p>

</form>

</div>

<!----------------NAVIGATION AREA------------------>

<div id="icon">

<p>magari</p><p class="small" >.co.ke</p>

</div>

<div id="item\_2\_1" >

<a href="#new\_cars" >New Cars</a>

</div>

<div id="item\_2\_2" onclick="display\_insurers()">

<a>Insurance</a>

</div>

<div id="item\_2\_3" onclick="display\_car\_loan\_form()">

<a>Car Loans</a>

</div>

<div id="item\_2\_4" >

<a href="#dealers" >Winning Dealer</a>

</div>

<div id="item\_2\_5" >

<a href="#reviews\_section" >Reviews</a>

</div>

<div id="item\_2\_6" >

<a href="#blogs" >Blog</a>

</div>

<div id="top\_bar\_2\_bn" >

<button class="top\_bar\_2" onclick="showRequestCarForm()">Request a car</button>

</div>

<div id="top\_bar\_2\_bn\_2" >

<button class="top\_bar\_2\_bn" onclick="showSellCarForm()">Sell a car</button>

</div>

</div>

<!-------------------------NAVIGATION AREA------------------------------>

<div id="top\_bar\_3">

<!------------------------REQUEST A CAR DIALOG--------------------------->

<div id="car\_loans\_form\_8" class="request\_car\_form">

<form id="loan\_details\_form" onsubmit="event.preventDefault()" autocomplete="off">

<label>Car Make</label><br>

<input id="car\_make" type="text" placeholder="example: Subaru"><br>

<label>Car Model</label>

<input id="car\_model" type="text" placeholder="example: Forester (2010)"><br>

<center>

<button onclick="authenticate\_login()">Apply Loan</button>

</center>

<p id="var\_err"></p>

</form>

</div>

<!--------SELL A CAR DIALOG---------->

<div id="car\_loans\_form\_10" class="sell\_car\_form">

<form id="loan\_details\_form" onsubmit="event.preventDefault()" autocomplete="off">

<label>Car Make</label><br>

<input id="car\_make" type="text" placeholder="example: Subaru"><br>

<label>Car Model</label>

<input id="car\_model" type="text" placeholder="example: Forester (2010)"><br>

<label>Car Price</label><br>

<input id="car\_price" type="text" placeholder="example: Ksh. 300,000"><br>

<center>

<button onclick="">SELL CAR</button>

</center>

<p id="var\_err"></p>

</form>

</div>

<!--INSURANCE POPUP-->

<div id="insurance\_form">

<div class="insur">

<div class="tile">

<img src="./aaa\_insurance.gif" width="250" height="50" alt="">

</div>

<div class="tile">

<img src="./allstate\_insurance.png" width="250" height="50" alt="">

</div>

<div class="tile">

<img src="./nationwide.jpeg" width="250" height="50" alt="">

</div>

</div>

</div>

<!--CAR LOANS POPUP-->

<div id="car\_loans\_form">

<form id="loan\_details\_form" onsubmit="event.preventDefault()" autocomplete="off">

<label>Car Make</label><br>

<input id="car\_make" type="text" placeholder="example: Subaru"><br>

<label>Car Model</label>

<input id="car\_model" type="text" placeholder="example: Forester (2010)"><br>

<label>Car Price</label><br>

<input id="car\_price" type="text" placeholder="example: Ksh. 300,000"><br>

<label>Loan Period</label><br>

<input id="loan\_period" type="text" placeholder="example: 2 years"><br>

<center>

<button onclick="authenticate\_login()">Apply Loan</button>

</center>

<p id="var\_err"></p>

</form>

</div>

<!--------------------TABBED MENU-------------------------------->

<div id="tabbed\_menu">

<div id="btns">

<button class="tablink tablink-left" id="defaultOpen" onclick="openOption('used',this,'black');">

USED

</button>

<button class="tablink" onclick="openOption('new',this,'black');">

NEW

</button>

<button class="tablink tablink-right" onclick="openOption('import',this,'black');">

IMPORT

</button>

</div>

<div id="used" class="tabcontent">

<center>

<form>

<input type="text" class="wide" placeholder="Make"><br>

<input type="text" class="wide" placeholder="Model"><br>

<input type="text" class="slim" placeholder="Year: From">

<input type="text" class="slim" placeholder="Year: To"><br>

<input type="number" class="slim" placeholder="Price: Min">

<input type="number" class="slim" placeholder="Price: Max"><br>

<input type="submit" class="wide\_bn" value="SEARCH NOW"><br>

</form>

</center>

</div>

<div id="new" class="tabcontent">

<center>

<form>

<input type="text" class="wide" placeholder="Make"><br>

<input type="text" class="wide" placeholder="Model"><br>

<input type="submit" class="wide\_bn" value="SEARCH NOW"><br>

</form>

</center>

</div>

<div id="import" class="tabcontent">

<center>

<form>

<input type="text" class="wide" placeholder="Make"><br>

<input type="text" class="wide" placeholder="Model"><br>

<input type="text" class="slim" placeholder="Year: From">

<input type="text" class="slim" placeholder="Year: To"><br>

<input type="number" class="slim" placeholder="Price: Min">

<input type="number" class="slim" placeholder="Price: Max"><br>

<input type="submit" class="wide\_bn" value="SEARCH NOW"><br>

</form>

</center>

</div>

</div>

</div>

<!-----------------------SECTION SEPARATOR--------------------------------->

<div class="section\_separator">

<h3>Featured</h3>

</div>

<!--------------------FEATURED CARDVIEWS---------------------------->

<div id="featured\_cars" class="featured\_cars">

<div class="card" onclick="displayMain()">

<img src="./img\_car.jpeg" width="250" height="150" alt="">

<div class="container">

<h3><b>Toyota Land Cruiser</b></h3>

<p>Ksh. 800,000</p>

</div>

</div>

<div class="card" onclick="displayMain()">

<img src="./img2.jpg" width="250" height="150" alt="">

<div class="container">

<h3><b>Toyota Land Cruiser</b></h3>

<p>Ksh. 1,800,000</p>

</div>

</div>

<div class="card" onclick="displayMain()">

<img src="./img4.jpg" width="250" height="150" alt="">

<div class="container">

<h3><b>Toyota Land Cruiser</b></h3>

<p>Ksh. 1,200,000</p>

</div>

</div>

<div class="card" onclick="displayMain()">

<img src="./img5.jpg" width="250" height="150" alt="">

<div class="container">

<h3><b>Toyota Land Cruiser</b></h3>

<p>Ksh. 1,700,000</p>

</div>

</div>

</div>

<!-----------------------SECTION SEPARATOR--------------------------------->

<div id="new\_cars" class="section\_separator">

<h3>New</h3>

</div>

<!--------------------FEATURED CARDVIEWS---------------------------->

<div class="featured\_cars">

<div class="card" onclick="displayMain()">

<img src="./img\_car.jpeg" width="250" height="150" alt="">

<div class="container">

<h3><b>Toyota Land Cruiser</b></h3>

<p>Ksh. 800,000</p>

</div>

</div>

<div class="card" onclick="displayMain()">

<img src="./img2.jpg" width="250" height="150" alt="">

<div class="container">

<h3><b>Toyota Land Cruiser</b></h3>

<p>Ksh. 800,000</p>

</div>

</div>

<div class="card" onclick="displayMain()">

<img src="./img4.jpg" width="250" height="150" alt="">

<div class="container">

<h3><b>Toyota Land Cruiser</b></h3>

<p>Ksh. 800,000</p>

</div>

</div>

<div class="card" onclick="displayMain()">

<img src="./img5.jpg" width="250" height="150" alt="">

<div class="container">

<h3><b>Toyota Land Cruiser</b></h3>

<p>Ksh. 800,000</p>

</div>

</div>

</div>

<!-----------------------SECTION SEPARATOR--------------------------------->

<div id="dealers" class="section\_separator">

<h3>Dealer Partners</h3>

</div>

<!----------------------------VEHICLE DEALERS----------------------------------->

<div id="dealer\_partners">

<fieldset class="show\_winner">

<legend class="show\_winner\_legend">WINNNING DEALER</legend>

<div class="dealers\_card" onclick="displayDealer()">

<img src="./img\_dealer\_1.png" width="250" height="150" alt="">

<div class="dealer\_tag">

<h4>NISSAN</h4>

</div>

</div>

</fieldset>

<div class="dealers\_card" onclick="displayDealer()">

<img src="./img\_dealer\_2.jpg" width="250" height="150" alt="">

<div class="dealer\_tag">

<h4>TOYOTA</h4>

</div>

</div>

<div class="dealers\_card" onclick="displayDealer()">

<img src="./img\_dealer\_3.jpg" width="250" height="150" alt="">

<div class="dealer\_tag">

<h4>SUBARU</h4>

</div>

</div>

<div class="dealers\_card" onclick="displayDealer()">

<img src="./img\_dealer\_4.png" width="250" height="150" alt="">

<div class="dealer\_tag">

<h4>MISTUBISHI</h4>

</div>

</div>

</div>

<!-----------------------SECTION SEPARATOR--------------------------------->

<div class="section\_separator">

<h3>Vehicle Types</h3>

</div>

<!-----------------------VEHICLE TYPES--------------------------------->

<div id="vehicle\_types">

<div class="car\_type" onclick="displayVehicleTypes()">

<img src="./car\_type\_1.png" width="215" height="160" alt="">

<div class="dealer\_tag">

<h4>STATION WAGON</h4>

</div>

</div>

<div class="car\_type" onclick="displayVehicleTypes()">

<img src="./car\_type\_2.png" width="215" height="160" alt="">

<div class="dealer\_tag">

<h4>SALOON CAR</h4>

</div>

</div>

<div class="car\_type" onclick="displayVehicleTypes()">

<img src="./car\_type\_3.png" width="215" height="160" alt="">

<div class="dealer\_tag">

<h4>4WD CARS</h4>

</div>

</div>

<div class="car\_type" onclick="displayVehicleTypes()">

<img src="./car\_type\_4.png" width="215" height="160" alt="">

<div class="dealer\_tag">

<h4>4WD CARS</h4>

</div>

</div>

<div class="car\_type">

<img src="./car\_type\_5.webp" width="215" height="160" alt="">

<div class="dealer\_tag">

<h4>ELECTRIC CARS</h4>

</div>

</div>

</div>

<!-----------------------SECTION SEPARATOR--------------------------------->

<div class="section\_separator">

<h3>Location</h3>

</div>

<!-----------------------BRANCH LOCATIONS--------------------------------->

<div class="locations">

<img src="./location\_icon.jpg" alt="" width="50" height="50">

<h3>Kisumu</h3>

<img src="./location\_icon.jpg" alt="" width="50" height="50">

<h3>Nairobi</h3>

<img src="./location\_icon.jpg" alt="" width="50" height="50">

<h3>Mombasa</h3>

<img src="./location\_icon.jpg" alt="" width="50" height="50">

<h3>Nakuru</h3>

<img src="./location\_icon.jpg" alt="" width="50" height="50">

<h3>Eldoret</h3>

<img src="./location\_icon.jpg" alt="" width="50" height="50">

<h3>Thika</h3>

<img src="./location\_icon.jpg" alt="" width="50" height="50">

<h3>Lamu</h3>

<img src="./location\_icon.jpg" alt="" width="50" height="50">

<h3>Kisii</h3>

<img src="./location\_icon.jpg" alt="" width="50" height="50">

<h3>Meru</h3>

<img src="./location\_icon.jpg" alt="" width="50" height="50">

<h3>Murang'a</h3>

</div>

<!-----------------------SECTION SEPARATOR--------------------------------->

<div id="reviews\_section" class="section\_separator">

<h3>Reviews</h3>

</div>

<!--------------------------Reviews---------------------------------------->

<div class="review\_items">

<div class="review"><p>This website is amazing, I bought a second-hand vehicle in good condition </p></div>

<div class="review\_2"><p>For anyone looking for a fast way to purchase, this is the place</p></div>

</div>

<!-----------------------SECTION SEPARATOR--------------------------------->

<div id="blogs" class="section\_separator">

<h3>Out Latest Posts</h3>

</div>

<!-----------------------NEWS BYTES--------------------------------->

<div class="posts">

<div id="my details" class="news\_bytes">

<img src="" alt="owner" width="300" height="300">

<p>Hello world</p>

</div>

<div class="card">

<img src="./post\_1.png" width="250" height="150" alt="">

<div class="container">

<h3><b>Rising Fuel Prices In The Continent</b></h3>

</div>

</div>

<div class="card">

<img src="./post\_2.jpeg" width="250" height="150" alt="">

<div class="container">

<h3><b>Reckless Driving In Sub-urban Areas</b></h3>

</div>

</div>

<div class="card">

<img src="./post\_3.jpeg" width="250" height="150" alt="">

<div class="container">

<h3><b>Construction Of New Expressway</b></h3>

</div>

</div>

</div>

<!-----------------------SECTION SEPARATOR--------------------------------->

<div class="section\_separator">

<h3>Contact Us</h3>

</div>

<!------------------------------CONTACT US-------------------------------->

<div id="contact\_us">

<div class="card">

<img src="./instagram.png" width="150" height="150" alt="">

<div id="gram">

<h3>@silas.n\_</h3>

</div>

</div>

<div id="details\_card" class="card">

<img src="./facebook.png" width="200" height="150" alt="">

<div id="gram">

<h3>@Silas Nyamwange</h3>

</div>

</div>

</div>

</div>

</body>

<script type="text/javascript">

let items\_arr = new Array()

let item\_id\_to\_add = 0

let popupIsShowing = false

let users = new Array()

let isLoggedIn

document.getElementById("defaultOpen").click()

function openOption(carState,elemnt,color){

var i, tabcontent, tablinks

tabcontent = document.getElementsByClassName("tabcontent")

for (i = 0; i < tabcontent.length; i++) {

tabcontent[i].style.display = "none"

}

tablinks = document.getElementsByClassName("tablink")

for (i = 0; i < tablinks.length; i++) {

tablinks[i].style.backgroundColor = ""

}

document.getElementById(carState).style.display = "block"

elemnt.style.backgroundColor = color

}

function getUsers(){

var str = localStorage.getItem("local\_items")

if(str != null){

items\_arr = JSON.parse(str)

}

}

function getId(){

var str = localStorage.getItem("local\_item\_to\_add")

if(str != null){

item\_id\_to\_add = JSON.parse(str)

}

}

function getCardItem(){

getItems()

var search\_item\_name = document.getElementById("input#item\_name").value

for(var i = 0; i < items\_arr.length; i++){

if (items\_arr[i].item\_name == search\_item\_name)

var item\_id = items\_arr[i].item\_id

}

return item\_id

}

function setCardItem(){

let item\_id = `SN${Math.floor(Math.random(100))}`

items\_arr.push({

item\_id: item\_id,

item\_price: document.getElementById("input#item\_price").value,

item\_name: document.getElementById("input#item\_name").value

})

localStorage.setItem("local\_items", JSON.stringify(items\_arr))

localStorage.setItem("local\_item\_to\_add", JSON.stringify(items\_id))

}

function showCardItem(){

getItems()

getId()

let item\_price = 0

let item\_name = ""

for(var i = 0; i < items\_arr.length; i++){

if(items\_arr[i].item\_id == item\_id\_to\_add){

item\_price = items\_arr[i].item\_price

item\_name = items\_arr[i].item\_name

}

}

document.getElementById("card\_collection\_1").innerHTML = (

'<div class="card\_view\_item">'+'center'+

'<p>item price"+`${item\_price}`</p>'+

'<p>item name"+`${item\_name}`</p>'+

'<p>item id"+`${item\_id\_to\_add}`</p>'+

'</center>'+

'</div>')

}

function display\_login(){

if(popupIsShowing === false){

document.getElementById("login\_form").style.display = "inline"

popupIsShowing = true

} else {

document.getElementById("login\_form").style.display = "none"

popupIsShowing = false

}

}

function getUsersDetails(){

let str = localStorage.getItem("usersRegistered")

if(str != null){

users = JSON.parse(str)

}

}

function authenticate\_login(){

getUsersDetails()

let login\_usr\_name\_or\_email = document.getElementById("login\_usr\_name\_or\_email").value

let login\_usr\_pass = document.getElementById("login\_usr\_pass").value

for(let i = 0; i < users.length; i++){

if(users[i].usr\_email === login\_usr\_name\_or\_email - - users[i].usr\_name === login\_usr\_name\_or\_email){

users[i].isLoggedIn = true

console.log("logged in as ", users[i].usr\_name)

document.getElementById("login\_form").style.display = "none"

isLoggedIn = users[i].usr\_name

}

else{

document.getElementById("var\_err").innerHTML = "Incorrect username or password"

}

}

document.getElementById("login\_details\_form").reset()

display\_login\_name()

}

function register\_user(){

getUsersDetails()

let usr\_fname = document.getElementById("usr\_fname").value

let usr\_lname = document.getElementById("usr\_lname").value

let usr\_name = document.getElementById("usr\_name").value

let usr\_email = document.getElementById("usr\_email").value

let usr\_pass = document.getElementById("usr\_pass").value

let usr\_pass\_confirm = document.getElementById("usr\_pass\_confirm").value

users.push({

usr\_fname: usr\_fname,

usr\_lname: usr\_lname,

usr\_name: usr\_name,

usr\_email: usr\_email,

usr\_pass: usr\_pass,

isLoggedIn: false

})

localStorage.setItem("usersRegistered", JSON.stringify(users))

document.getElementById("register\_form").style.display = "none"

document.getElementById("register\_details\_form").reset()

console.log("registered as ", usr\_name)

}

function display\_registration(){

if(popupIsShowing === false){

document.getElementById("register\_form").style.display = "inline"

popupIsShowing = true

} else {

document.getElementById("register\_form").style.display = "none"

popupIsShowing = false

}

}

function display\_dealer\_login(){

if(popupIsShowing === false){

document.getElementById("dealer\_form").style.display = "inline"

popupIsShowing = true

} else {

document.getElementById("dealer\_form").style.display = "none"

popupIsShowing = false

}

}

function display\_car\_loan\_form(){

if(popupIsShowing === false){

document.getElementById("car\_loans\_form").style.display = "inline"

popupIsShowing = true

} else {

document.getElementById("car\_loans\_form").style.display = "none"

popupIsShowing = false

}

}

function display\_insurers(){

if(popupIsShowing === false){

document.getElementById("insurance\_form").style.display = "inline"

popupIsShowing = true

} else {

document.getElementById("insurance\_form").style.display = "none"

popupIsShowing = false

}

}

function display\_login\_name(){

getUsersDetails()

for(let i = 0; i < users.length; i++){

if(users[i].usr\_name === isLoggedIn){

document.getElementById("loggedIn").innerHTML ="Welcome, " +users[i].usr\_fname

}

}

}

function showRequestCarForm(){

if(popupIsShowing === false){

document.getElementById("car\_loans\_form\_8").style.display = "inline"

popupIsShowing = true

} else {

document.getElementById("car\_loans\_form\_8").style.display = "none"

popupIsShowing = false

}

}

function showSellCarForm(){

if(popupIsShowing === false){

document.getElementById("car\_loans\_form\_10").style.display = "inline"

popupIsShowing = true

} else {

document.getElementById("car\_loans\_form\_10").style.display = "none"

popupIsShowing = false

}

}

function displayMain(){

if(popupIsShowing === false){

document.getElementById("popup").style.display = "inline"

popupIsShowing = true

} else {

document.getElementById("popup").style.display = "none"

popupIsShowing = false

}

}

function displayDealer(){

if(popupIsShowing === false){

document.getElementById("dealer\_popup").style.opacity = "1"

document.getElementById("dealer\_popup").style.visibility = "visible"

popupIsShowing = true

} else {

document.getElementById("dealer\_popup").style.opacity = "0"

document.getElementById("dealer\_popup").style.visibility = "hidden"

popupIsShowing = false

}

}

function displayVehicleTypes(){

if(popupIsShowing === false){

document.getElementById("vehicle\_type\_popup").style.display = "inline"

popupIsShowing = true

} else {

document.getElementById("vehicle\_type\_popup").style.display = "none"

popupIsShowing = false

}

}

</script>

</html>

1. **BACK END**

This section explains how server side scripting was done to handle POST and GET requests as well as RESTFUL API’s

1. **DATABASE**

This section explains how the information for the entire webpage is organized

* 1. **List of Tables**
     1. **companyFunds –** a table that describes the available funds in the company’s treasury.

**Fields**

It has the following fields:

* + - * transactionId
      * transactionType
      * transactionAmount

**Query Examples**

It can be used for the following queries

* find out the subtotal amount of each transaction type
* fund net company balance by comparing transactions of type deposit to type withdrawal

**Interface**

* + 1. **dealerPartners –** a table that deals with car-makes from various dealers.

**Fields**

It has the following fields:

* + - * dealerId
      * dealerName
      * dealtVehicles

**Query Examples**

It can be used for the following queries

* find out the dealer with the highest number of vehicles sold
* get subtotal of production numbers by each dealer of each vehicle type

**Interface**

* + 1. **insurancePartners –** a table showing each insurer available for services

**Fields**

It has the following fields:

* + - * insurerId
      * insurerName

**Query Examples**

It can be used for the following queries

* get list of available insurers

**Interface**

* + 1. **latestPosts –** a table that shows the list of available motor related articles

**Fields**

It has the following fields:

* + - * postId
      * usrId
      * postTitle
      * postContent

**Query Examples**

It can be used for the following queries

* get list of available motor related articles
* show subtotal number of articles written by each author

**Interface**

* + 1. **loanAppications –** a table that allows the user to interact with loan services offered by insurers

**Fields**

It has the following fields:

* + - * loanId
      * usrId
      * loanPrincipal
      * loanRate
      * loanTime

**Query Examples**

It can be used for the following queries

* get list of users with pending loans
* get subtotal of loans per dealer
* get average rate of loan for all lender

**Interface**

* + 1. **serviceLocations -**  a table showing available locations for pickup or delivery of vehicles

**Fields**

It has the following fields:

* + - * locationId
      * locationName

**Query Examples**

It can be used for the following queries

* get list of nearby locations to save on cost for users

**Interface**

* + 1. **userComments –** a table that stores comments made by the users through the reviews section or through the support accounts

**Fields**

It has the following fields:

* + - * commentId
      * usrId
      * commentContent
      * serviceRating

**Query Examples**

It can be used for the following queries

* get list of available complaints on a given vehicle, dealer or service through use of keywords
* get average service rating of our services from users
* get subtotal of common complaints
* get requests for vehicles that are not in the database

**Interface**

* + 1. **vehicleInfo –** a table that shows information about each vehicle in detail

**Fields**

It has the following fields:

* + - * vehicleId
      * vehicleMake
      * vehicleModel
      * vehiclePrice
      * vehicleYearMade
      * vehicleOrigin

**Query Examples**

It can be used for the following queries

* get average price of vehicle
* get subtotal of available model for each make
* get average year made for all vehicles in the database
* get subtotal of imported, new or used vehicles in the database

**Interface**

* + 1. **vehicleRegistry –** a table that shows whether a vehicle is still up for sale or not

**Fields**

It has the following fields:

* + - * vehicleId
      * vehicleName
      * vehicleIsSold

**Query Examples**

It can be used for the following queries

* get list of available vehicles for sale
* get list of sold vehicles within a period of time
* get average price of vehicle bought
* get percentage of vehicles that are not selling fast

**Interface**

* + 1. **vehicleTypes –** a table that shows the list of available vehicle categories

**Fields**

It has the following fields:

* + - * typeId
      * typeName

**Query Examples**

It can be used for the following queries

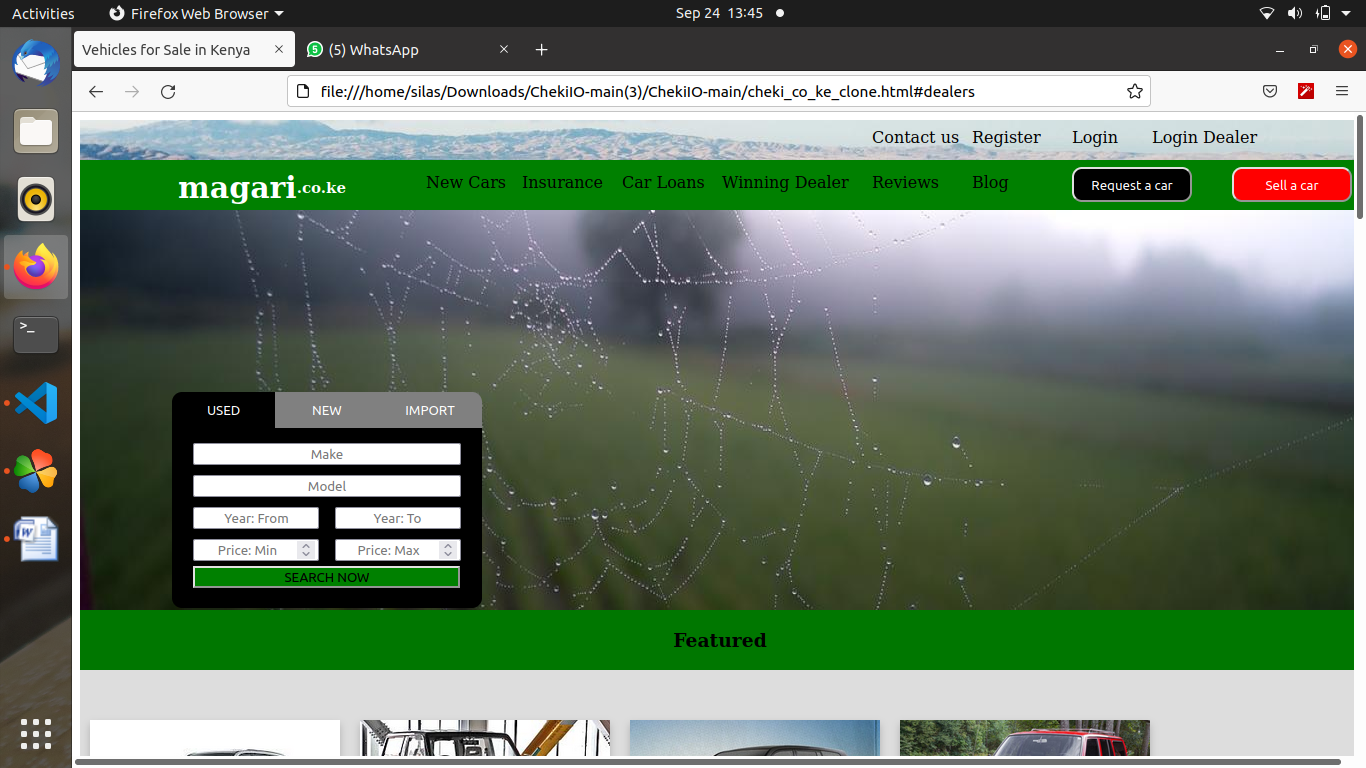
* get subtotal of vehicles in each category

**Interface**

* 1. **Visual Relationship Between Tables**

to be created using VisioModeller 13

# PROCEDURE OUTCOME



# CONCLUSION

In summary, this product is designed to allow creation of car offers, reading of items stored in the website containing car offers, updating of offers and deleting of offers. While it is true to claim that traditional commerce is the leading mode of vehicle acquisition, e-commerce is upcoming fast and this requires websites that can adapt to user needs. Our Cheki product aims to meet these needs.

Our product has met those needs in the following ways:

1. Offering a simple user interface that is attractive to users so as to get customers
2. Offering fast checkout options