

SOFTWARE ENGINEERING

ISOE

TEST PLAN DOCUMENT

HOT-WHEELZ
CAR DEALING/RENTAL WEBSITE

Customer-

General public

GROUP MEMBERS-

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SECTION 1:

INTRODUCTION

This is a test execution document of an online car dealing website ‘HOTWHEELZ’ Software Engineering project at the Information Technology Department of Indian Institute of Information Technology Allahabad . ‘HOTWHEELZ’ project is a website meant for selling second hand and new cars online. Its main goal is to improve the process of selling vehicles online . This document presents the results of the execution of the different tests presented in the ‘HOTWHEELZ’ plan document. The document is organized as follows:

- Section 1 is the Introduction itself.
- Section 2 introduces the results of Unit testing
- Section 3 introduces the results of Integration testing.
- Section 4 introduces the results of System testing.
- Section 5 describes the bugs found during the test phase, are listed.

The results of the test execution will be presented in subsection as follows:

- Id and name of the executed test.
- Description of the test, or collected results.
- Errors found if any, and maybe a reference to the bug and fixes report. If error was found on a certain step of Test Case, the step number is given.

All test cases were first executed once and found bugs were fixed. Then all test cases were executed again and no further bugs were found.

SECTION 2:

UNIT TESTING

Since we are working on a website.,Unit test were created as screenshots of all the visible interfaces./ Each minute component has been checked for its function for e.g every button's activity has been captured and shown as a test case.

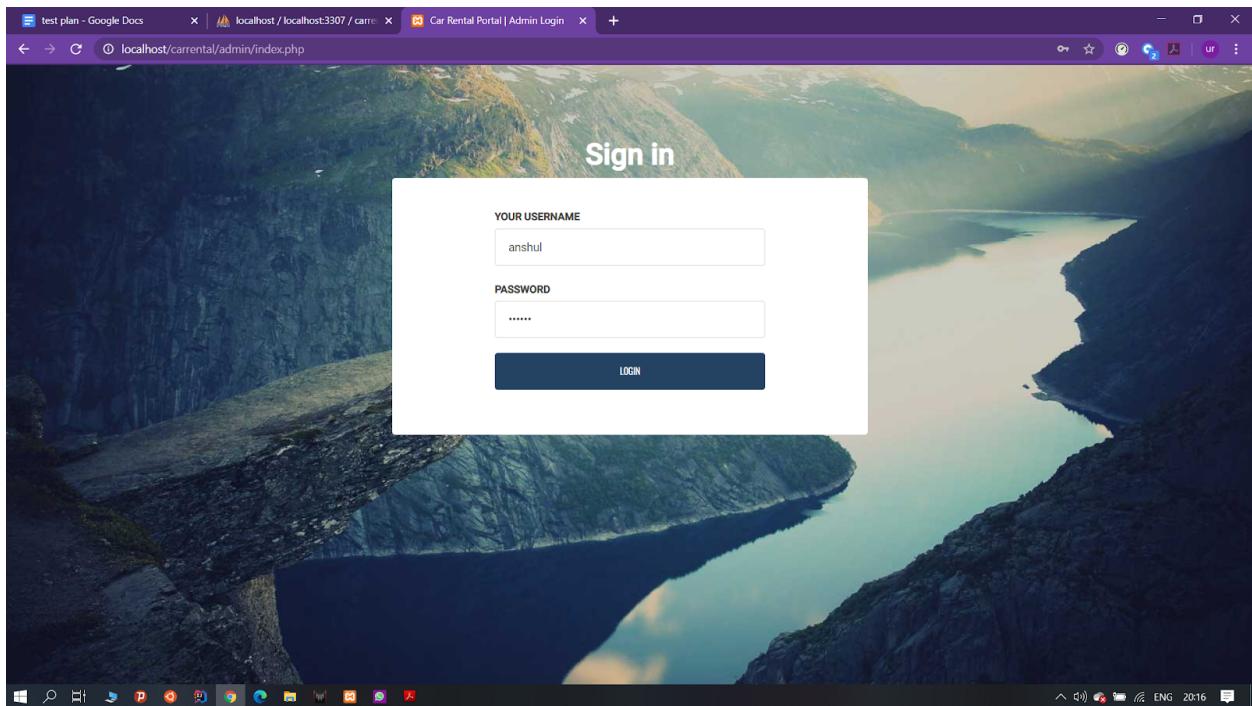
Test Cases

Test Case No.	Name	Test case
1.	Admin Login	Initial Login page to check if admin can log into Mieten or not.
2.	FAQ View questions and Answers	The page where FAQ posted by the Customer can be viewed by the admin and the answers can be posted successfully.
3.	View & Update Profile -Buyer	This page allows Buyer to view and update his/her profile.
4.	Dashboard - Admin	This page allows the admin to know the statistics related to the website. It displays information like number of registered users, listed brands, cars etc.
5.	Create/Add Brand - Admin	The admin changes or updates this page.On this pages new brand details and updates.

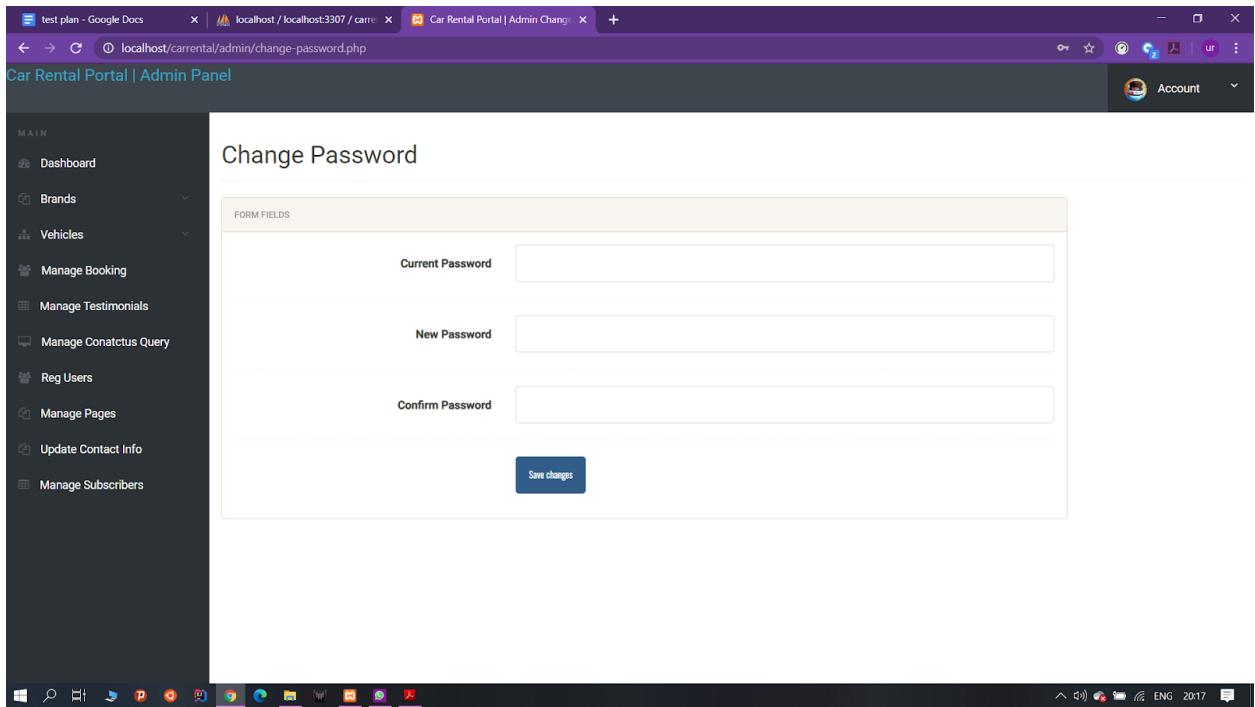
6	Home - Buyer	This page is the landing page when the website is opened or someone logs in. This page can redirect to all the modules of the website.
8	Manage Bookings - Admin	The Admin manages the Bookings made by the user here on this page.
9	Login- Dealer/Customer	Both the dealer and customer can login through this page.
10	Carlisting	This is the page where all the cars available for renting/buying are displayed.
11	Manage Testimonials Page	This page is for the Admin. It is used to toggle the visibility of each testimonial.
12	Contact Us	The user can contact the admin through this page.
13	Post Vehicle	This page can be only accessed by the admin. It serves the purpose of adding cars into the car listing.

TEST CASE 1: Admin Login

This is the admin login page. This page allows an admin to login whose login credentials are already stored in the database. The page redirects to the Admin landing page if the Admin enters the correct login credentials.



After entering credentials and clicking onto login, if the login was successful this page shows up. Implying Test case 1 has passed.



The database for managing login is given below.

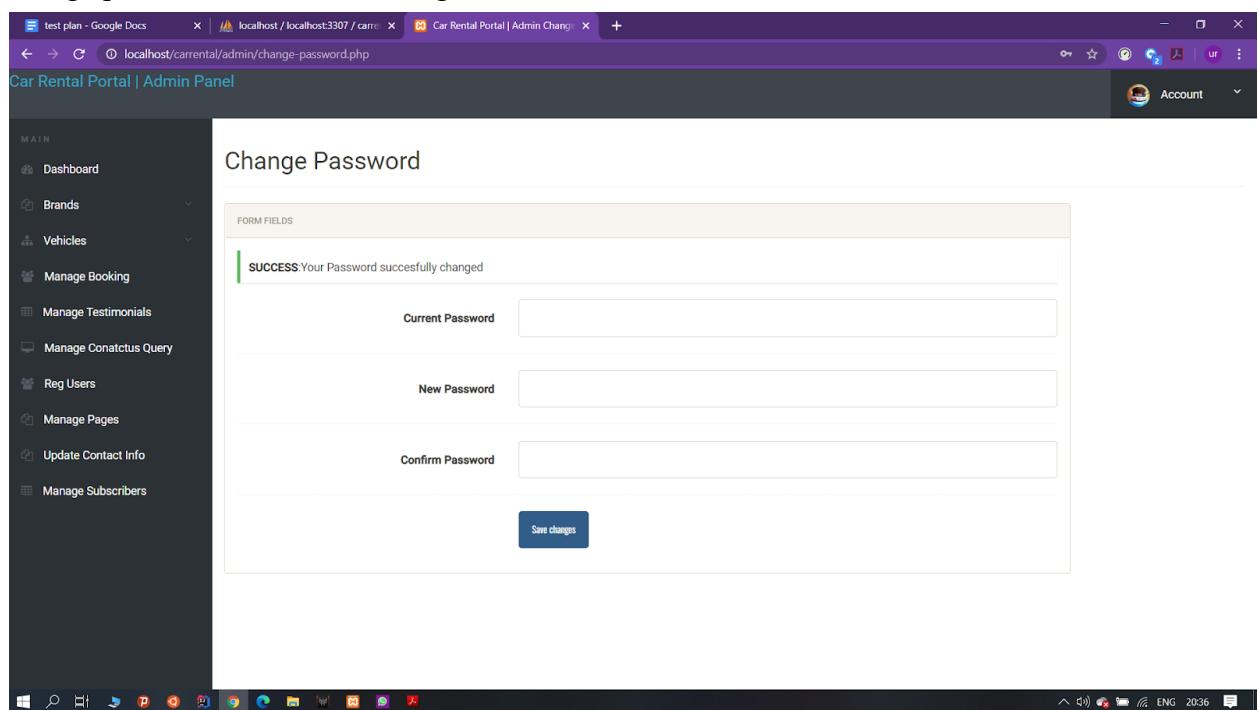
The screenshot shows the phpMyAdmin interface connected to the MySQL database "corrental". The left sidebar lists various tables: admin, tbbooking, tbbrands, tbcontactusinfo, tbcontactusquery, tbcustomers, tbdealers, tbpages, tbsubscribers, tbtestimonial, tbusers, and tbvehicles. The main panel displays the "admin" table with two rows of data:

	id	UserName	Password	updateDate
Edit	1	admin	5c42bd875d2948607f3e3fe134d71b4	2017-06-18 17:52:38
Edit	2	anshul	e10adc3940ba59abbe56e057f20f883e	2020-04-28 16:17:21

Test Case 2: Change Password-Admin

This is the Page where Admin is redirected after logging in. This page allows the admin to change the password of his account. The admin must enter the current password and the new one to successfully change the account's password.

When the admin successfully changes the password, the following message appears above the change password frame, indicating the success of Test case 2.



The database to maintain the credentials is given in the Test Case 1 section.

Test Case 3:

View & Update Profile -Buyer

This is the page where the buyer can see their own profile and can update his/her public profile and can opt from various options given on the left panel the website will get directed to that particular page. Buyer can also update password after giving current credentials after verification new credentials gets updated in the database.

The screenshot shows the 'Profile Settings' page for a user named Ankit Kumar. The left sidebar contains links for Profile Settings, Update Password, My Booking, Post a Testimonial, My Testimonials, and Sign Out. A red square icon with a gear symbol is visible next to the 'Profile Settings' link. The main content area is titled 'GENERAL SETTINGS' and includes fields for Full Name (Ankit Kumar), Email Address (ankitk05021999@gmail.com), Phone Number (8218947324), Date of Birth (dd/mm/yyyy), Your Address, and Country. A red circular button with a white upward arrow is located in the bottom right corner of the form area. At the bottom right of the page, there is a footer with icons for Facebook, Twitter, and LinkedIn.

Profile Settings
Update Password
My Booking
Post a Testimonial
My Testimonials
Sign Out

GENERAL SETTINGS

Reg Date - 2020-04-30 15:33:07

Full Name
Ankit Kumar

Email Address
ankitk05021999@gmail.com

Phone Number
8218947324

Date of Birth (dd/mm/yyyy)
dd/mm/yyyy

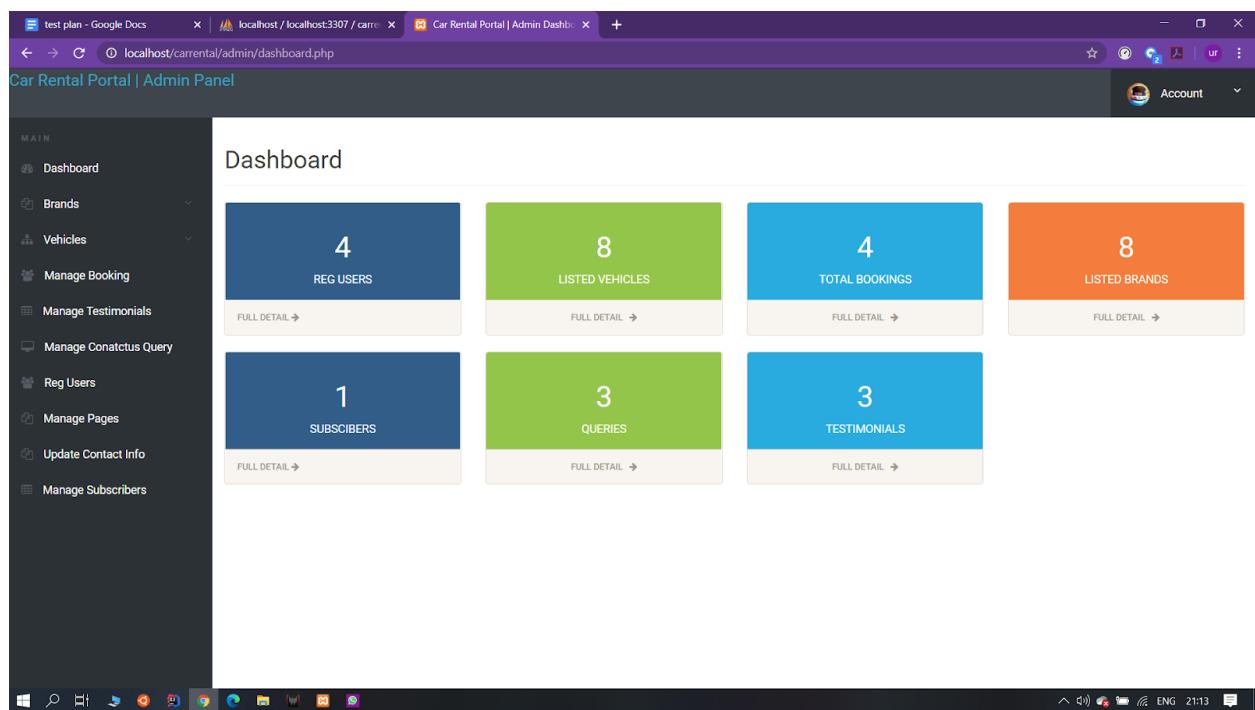
Your Address

Country

Powered by

Test Case 4: Dashboard - Admin

This page acts as the dashboard of the website. The admin can see the number of users, listed brands, listed vehicles, total bookings, number of queries, subscribers and testimonials. This can be accessed from the menu given on the left side of the website. If the admin is able to access each section in the dashboard the test case 4 is successful.



The screenshot shows a web browser window with the title 'Car Rental Portal | Admin Panel'. On the left, there is a dark sidebar menu titled 'MAIN' with the following items:

- Dashboard
- Brands
- Vehicles
- Manage Booking
- Manage Testimonials
- Manage Contactus Query
- Reg Users
- Manage Pages
- Update Contact Info
- Manage Subscribers

The main content area is titled 'Dashboard' and contains six colored boxes with statistics:

Category	Value	Color
REG USERS	4	Dark Blue
LISTED VEHICLES	8	Light Green
TOTAL BOOKINGS	4	Cyan
LISTED BRANDS	8	Orange
SUBSCRIBERS	1	Dark Blue
QUERIES	3	Light Green
TESTIMONIALS	3	Cyan

Each box has a 'FULL DETAIL' link at the bottom.

Each section expands to the following page.

The screenshot shows a Microsoft Edge browser window with three tabs open:

- test plan - Google Docs
- localhost / localhost:3307 / carrental
- Car Rental Portal | Admin Manager

The main content area displays the "Manage Vehicles" page under the "Vehicles" section of the sidebar. The page title is "Manage Vehicles".

VEHICLE DETAILS

#	Vehicle Title	Brand	Price Per day	Fuel Type	Model Year	Action
1	BMW	BMW	345345	Petrol	3453	<input checked="" type="checkbox"/> <input type="button" value="x"/>
2	Maruti Suzuki	BMW	859	CNG	2015	<input checked="" type="checkbox"/> <input type="button" value="x"/>
3	Toyota	Nissan	563	CNG	2012	<input checked="" type="checkbox"/> <input type="button" value="x"/>
4	Nissan	Maruti	5636	CNG	2012	<input checked="" type="checkbox"/> <input type="button" value="x"/>
5	Audi	Toyota	345345	Petrol	3453	<input checked="" type="checkbox"/> <input type="button" value="x"/>
6	audi	Audi	432	Diesel	2019	<input checked="" type="checkbox"/> <input type="button" value="x"/>
7	audi	Audi	453	CNG	2020	<input checked="" type="checkbox"/> <input type="button" value="x"/>
8	maruti suzuki	Maruti	445	Petrol	2021	<input checked="" type="checkbox"/> <input type="button" value="x"/>

Show 10 entries Search:

Showing 1 to 8 of 8 entries

PREVIOUS **1** NEXT

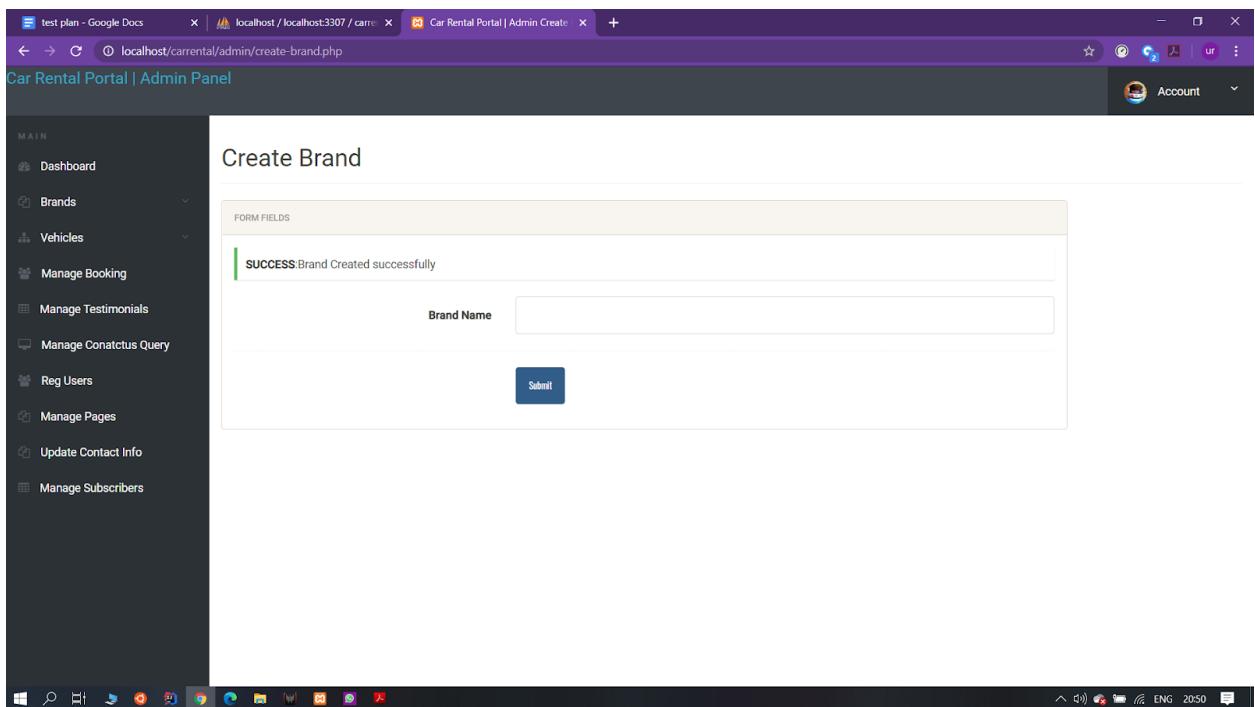
System tray icons include: Windows Start, Task View, File Explorer, Edge, File, Mail, Photos, OneDrive, Taskbar, and a battery icon.

Test Case 5: Create/Add Brand - Admin

This page allows the admin to add vehicle brands to the website. This can be accessed from the dashboard. The options given to the left side of the website allows admin to navigate to different pages. After entering the brand name and clicking on submit, the brand is available to choose while adding vehicles.

The screenshot shows a Microsoft Edge browser window with the title 'Car Rental Portal | Admin Create'. The address bar displays 'localhost:3307 / carrental/admin/create-brand.php'. The main content area is titled 'Create Brand' and contains a form with one field labeled 'Brand Name' containing the value 'Honda'. A 'Submit' button is visible below the input field. On the left, a dark sidebar menu lists various administrative functions: Dashboard, Brands, Vehicles, Manage Booking, Manage Testimonials, Manage Contact Query, Reg Users, Manage Pages, Update Contact Info, and Manage Subscribers. The status bar at the bottom shows standard Windows system icons and the text 'ENG 2050'.

This message on top indicates the brand was added successfully and implies that Test case 5 has passed.



The screenshot shows a web browser window with three tabs open:

- test plan - Google Docs
- localhost / localhost:3307 / carrental
- Car Rental Portal | Admin Create

The main content area is titled "Create Brand". It contains a "FORM FIELDS" section with a green "SUCCESS" message: "Brand Created successfully". Below this is a form field labeled "Brand Name" with an empty input box and a "Submit" button. On the far left, there is a sidebar with a dark background and white text, listing various administrative functions:

- MAIN
 - Dashboard
 - Brands
 - Vehicles
 - Manage Booking
 - Manage Testimonials
 - Manage Contact Query
 - Reg Users
 - Manage Pages
 - Update Contact Info
 - Manage Subscribers

The database for maintaining the vehicle brands is given below.

The screenshot shows the phpMyAdmin interface for the 'currental' database. The left sidebar lists various tables, and the main area displays the 'tblbrands' table with the following data:

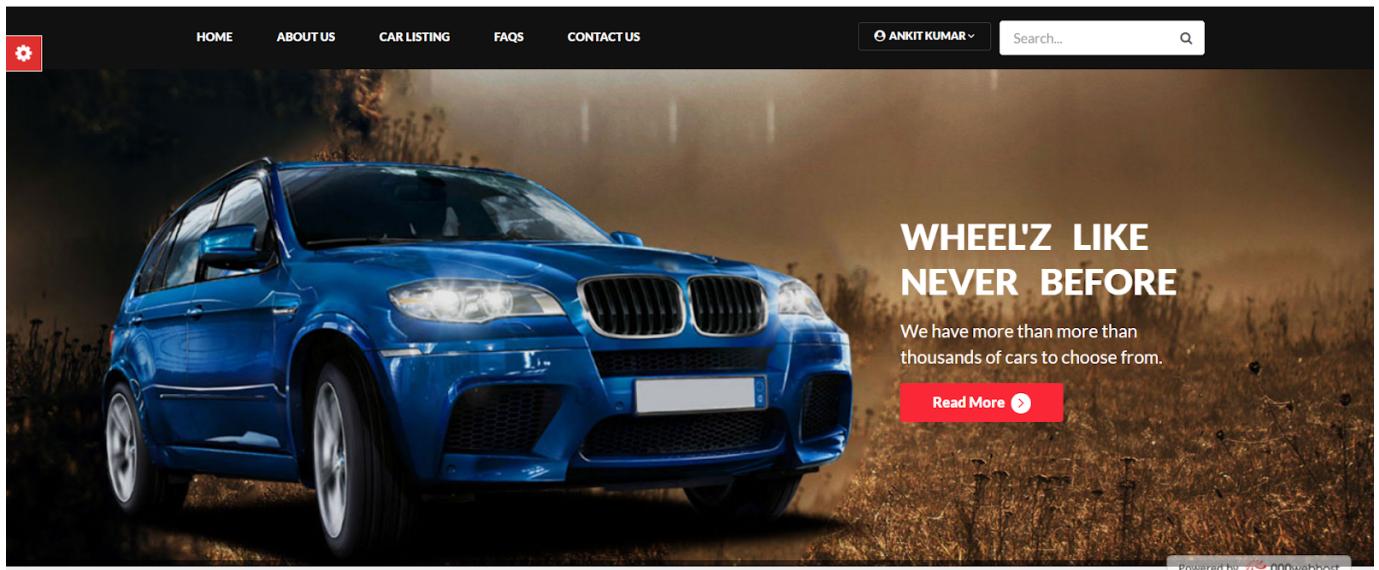
	id	BrandName	CreationDate	UpdatationDate
1	1	Maruti	2017-06-18 21:54:34	2017-06-19 12:12:23
2	2	BMW	2017-06-18 21:54:50	NULL
3	3	Audi	2017-06-18 21:55:03	NULL
4	4	Nissan	2017-06-18 21:55:13	NULL
5	5	Toyota	2017-06-18 21:55:24	NULL
7	7	Marutiu	2017-06-19 11:52:13	NULL
8	8	Yello	2020-04-29 17:14:50	NULL

Test Case 6:

Home - Buyer

This is the home page of the buyer who successfully logs into the website. This page is visible when the user clicks on the home button. From this page buyers can navigate to different pages.

On the top panel the car listing , FAQs and other quick links are available from where users can be directed to that particular link. On scrolling down the user will find testimonials and button for writing his/her own testimonial.



This is the database maintaining the list of users of the website.

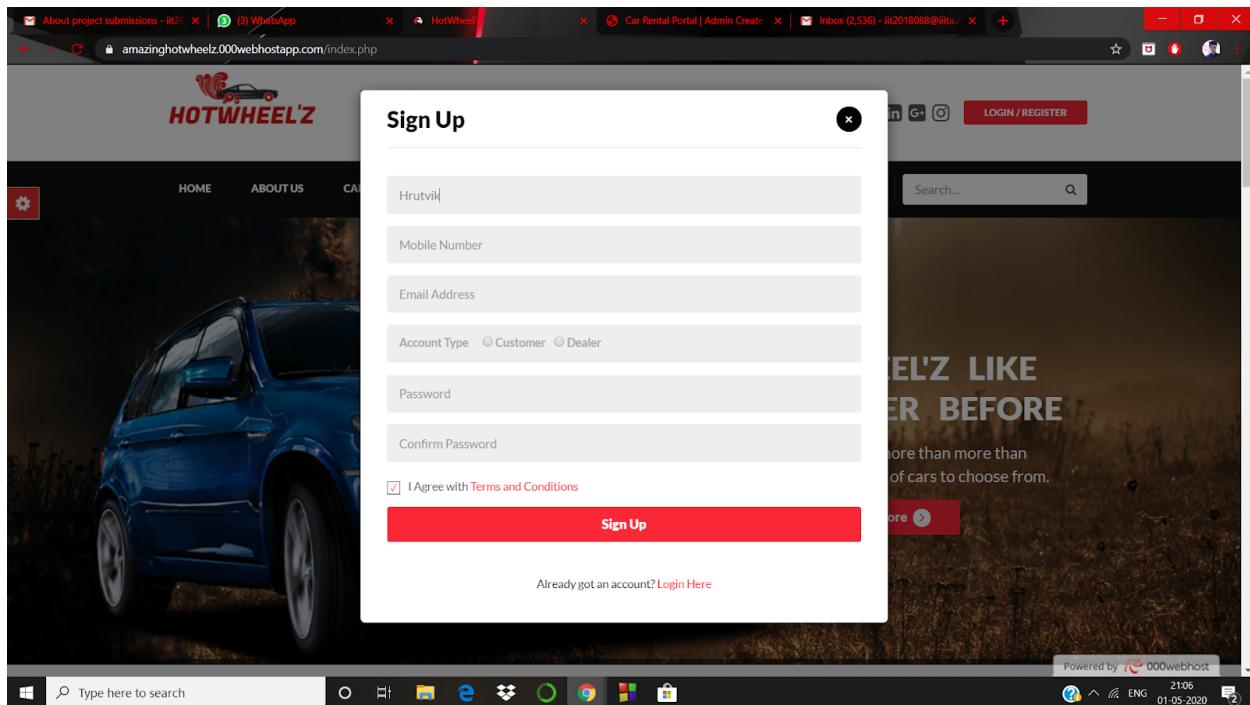
	Edit	Copy	Delete	10	vineet	xyz@gmail.com	827ccb0eea8a706c434a16891f84e7b	1234567891	customer	21/09/1995	jhansi	kanpur	allahabad	2020-04-21	20:04:56	2020-04	
	Edit	Copy	Delete	11	ankit	ankit@gmail.com	202cb962ac59075b964b07152d234b70	1234567891	dealer	NULL	NULL	NULL	NULL	2020-04-28	17:56:14	NULL	
	Edit	Copy	Delete	12	anshul	anshul@gmail.com	202cb962ac59075b964b07152d234b70	1234567891	dealer	NULL	NULL	NULL	NULL	2020-04-28	17:57:53	NULL	
	Edit	Copy	Delete	13	anshul	urumum@gmail.com	e10adc3949ba59abbe56e057f20ff83e	123456789	dealer	30/03/2001					2020-04-28	14:47:06	2020-04
	Edit	Copy	Delete	10	vineet	xyz@gmail.com	827ccb0eea8a706c434a16891f84e7b	1234567891	customer	21/09/1995	jhansi	kanpur	allahabad	2020-04-21	20:04:56	2020-04	
	Edit	Copy	Delete	11	ankit	ankit@gmail.com	202cb962ac59075b964b07152d234b70	1234567891	dealer	NULL	NULL	NULL	NULL	2020-04-28	17:56:14	NULL	
	Edit	Copy	Delete	12	anshul	anshul@gmail.com	202cb962ac59075b964b07152d234b70	1234567891	dealer	NULL	NULL	NULL	NULL	2020-04-28	17:57:53	NULL	
	Edit	Copy	Delete	13	anshul	urumum@gmail.com	e10adc3949ba59abbe56e057f20ff83e	123456789	dealer	30/03/2001					2020-04-28	14:47:06	2020-04

Test Case 7:

Sign Up :- Dealer/Customer

This is the landing page of the dealer where the dealer can sign up successfully into the page. If this page is visible, it implies that the dealer can successfully sign Up into his page . Similarly we can use this page for Customer Sign Up.

This shows that the test case 7 is passed.



This is the database maintaining the Sign Up for customer/Dealer.

The screenshot shows the phpMyAdmin interface for a MySQL database named 'currental'. The left sidebar lists various databases and tables, including 'tblcustomers' which is currently selected. The main area displays the contents of the 'tblcustomers' table with one row of data:

	id	FullName	EmailId	Password	ContactNo	Type	dob	Address	City	Country	RegDate	UpdationDate
	10	vineet	xyz@gmail.com	827ccb0eea8a706c4c34a16891f84e7b	1234567891	customer	21/09/1995	Jhawla allabad	kanpur	allahabad	2020-04-21 20:04:56	2020-04-21 20:04:56

Below the table, there are several operation buttons: Edit, Copy, Delete, Check all, With selected:, and Export. There are also links for Print, Copy to clipboard, Export, Display chart, and Create view. A 'Query results operations' section at the bottom includes a 'Bookmark this SQL query' button.

Test Case 8: Manage Bookings - Admin

This page allows admin to manage bookings. Admin is responsible for accepting or rejecting booking made by users. The admin can access the Manage Booking page from the left menu provided in the website. The following page shows up when this is opened.

The screenshot shows the 'Manage Bookings' page of the Car Rental Portal Admin Panel. The left sidebar contains a navigation menu with options like Dashboard, Brands, Vehicles, Manage Booking (which is selected), Manage Testimonials, Manage Contactus Query, Reg Users, Manage Pages, Update Contact Info, and Manage Subscribers. The main content area is titled 'Manage Bookings' and contains a table titled 'BOOKINGS INFO'. The table has columns for #, Name, Vehicle, From Date, To Date, Message, Status, Posting date, and Action. The data in the table is as follows:

#	Name	Vehicle	From Date	To Date	Message	Status	Posting date	Action
1	vineet	BMW , Maruti Suzuki	22/06/2017	25/06/2017	congrats !! You buy this car	Confirmed	2020-04-21 01:45:43	Confirm / Cancel
2	vineet	Nissan , Toyota	30/06/2017	02/07/2017	Okay !! Hope you will like other car.	Cancelled	2020-04-21 01:45:43	Confirm / Cancel
3	vineet	Maruti , Nissan	02/07/2017	07/07/2017	Welcome !! take your time to decide which car you want to purchase	Not Confirmed yet	2020-04-21 01:45:43	Confirm / Cancel
4	anshul	BMW , BMW	22/6/2020	24/6/2020	None	Confirmed	2020-04-28 20:01:11	Confirm / Cancel

Showing 1 to 4 of 4 entries

When the booking is confirmed, messages show up on the top of the screen. The status of the booking turns to Confirmed when the booking is accepted, indicating that this test case was successful.

The screenshot shows a web browser window with multiple tabs open. The active tab displays a user profile for 'anhul' with a car icon and the word 'Autospot'. On the left, a sidebar menu includes 'Profile Settings', 'Update Password', 'My Booking' (which is selected), 'Post a Testimonial', 'My Testimonials', and 'Sign Out'. The main content area is titled 'MY BOOKINGS' and shows a booking for 'BMW, BMW' from '22/6/2020' to '24/6/2020'. A green button labeled 'Confirmed' is visible next to the booking details. The status 'Message: None' is also present. The browser's taskbar at the bottom shows various pinned icons and the system tray on the right.

The database for this system is given below.

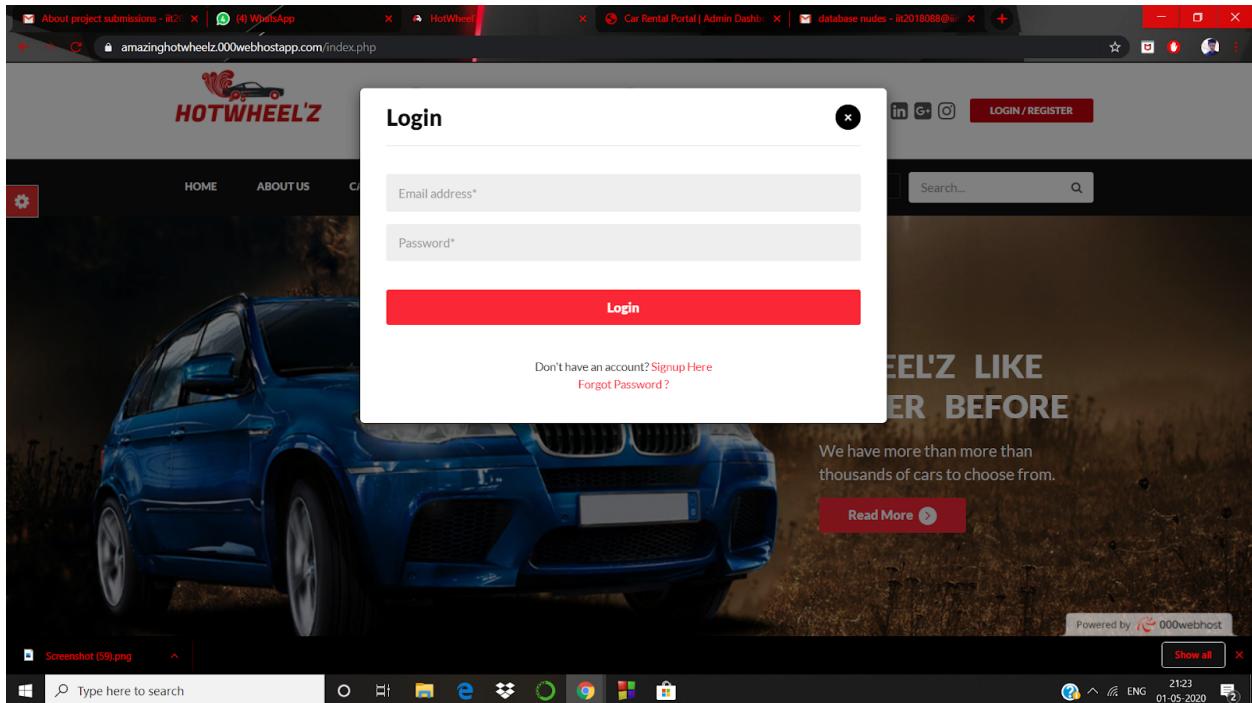
The screenshot shows the phpMyAdmin interface for the 'currental' database. The left sidebar lists various tables: admin, tblbooking, tbbrands, tbcontactusinfo, tbcontactusquery, tbcustomers, tbdealers, tbpages, tbsubscribers, tbtestimonial, tbusers, and tbvehicles. The 'tblbooking' table is selected in the main area. The table structure includes columns: id, userEmail, VehicleId, FromDate, ToDate, message, Status, and PostingDate. There are four rows displayed:

	id	userEmail	VehicleId	FromDate	ToDate	message	Status	PostingDate
Edit	1	xyz@gmail.com	2	22/06/2017	25/06/2017	congrats !! You buy this car.	1	2020-04-21 01:45:43
Edit	2	xyz@gmail.com	3	30/06/2017	02/07/2017	Okay !! Hope you will like other car.	2	2020-04-21 01:45:43
Edit	3	xyz@gmail.com	4	02/07/2017	07/07/2017	Welcome !! Take your time to decide which car you	0	2020-04-21 01:45:43
Edit	4	urumun@gmail.com	1	22/6/2020	24/6/2020	None	1	2020-04-28 20:01:11

Below the table, there are buttons for 'Check all', 'With selected', 'Edit', 'Copy', 'Delete', and 'Export'. The bottom section contains 'Query results operations' with options for Print, Copy to clipboard, Export, Display chart, and Create view. A 'Bookmark this SQL query' section allows labeling the query and choosing access rights. The status bar at the bottom shows system icons and the text 'ENG 21:30'.

Test Case 9: Login- Dealer/Customer

This is the landing page of the dealer/customer who has successfully logs into the page. If this is visible, it implies that the Dealer/Customer has successfully logged into the page.
This shows that the test cases 9 have passed.



The databases for maintaining a login record for the dealer is shown in the page below.

The screenshot shows the phpMyAdmin interface for the 'carrental' database. The left sidebar lists various tables: New, admin, tbbooking, tbbrands, tbcontactusinfo, tbcontactusquery, tbcustomers, tbdealers, tbpages, tbsubscribers, tbtestimonial, tbusers, and tbvehicles. The 'tbldealers' table is selected. The main area displays the contents of the 'tbldealers' table with three rows of data. The columns are: id, FullName, EmailId, Password, ContactNo, Type, dob, Address, City, Country, RegDate, and UpdationD. The data is as follows:

	id	FullName	EmailId	Password	ContactNo	Type	dob	Address	City	Country	RegDate	UpdationD
	11	ankit	ankit@gmail.com	202cb962ac59075b964b07152d234b70	1234567891	dealer	NULL	NULL	NULL	NULL	2020-04-28 17:56:15	NULL
	12	anshul	anshul@gmail.com	202cb962ac59075b964b07152d234b70	1234567891	dealer	NULL	NULL	NULL	NULL	2020-04-28 17:57:53	NULL
	13	anshul	urumum@gmail.com	e10adc3949ba59abbe56e057f20f883e	123456789	dealer	NULL	NULL	NULL	NULL	2020-04-28 14:47:06	2020-04-28

Below the table, there are buttons for Edit, Copy, Delete, and Export. The bottom right corner of the interface shows the date and time as 2026.

Test Case 10:

Carlisting

This is the page where all the available cars are shown and buyers can choose from various options.

There is an option available to filter the cars on the basis of the company on the left side. Users can see the specification of a particular car by clicking on that car's icon.

The screenshot displays a web-based car rental or listing platform. On the left, there is a sidebar with a red gear icon and a search bar labeled "Find Your Car" containing fields for "Select Brand" and "Select Fuel Type", followed by a red "Search Car" button. Below this, under "Recently Listed Cars", there are five items: Maruti (blue car), Maruti Suzuki (\$445 Per Day); Audi (purple car), Audi (\$453 Per Day); Audi (red car), Audi (\$432 Per Day); Toyota (red car), Toyota Audi (\$345345 Per Day); and Maruti (orange car), Maruti Nissan (\$5636 Per Day). The main content area shows a large orange Jaguar F-Type driving on a road, with details: "Maruti , Nissan", "\$5636 Per Day", "5 seats", "2012 model", "CNG", and a "View Details" button. Below this, another car listing for a purple Jaguar F-Type is shown: "Maruti , maruti suzuki", "\$445 Per Day", "6 seats", "2021 model", "Petrol", and a "View Details" button. At the bottom right, there is a "Powered by 000webhost" watermark.

Here is the database storing the information about the cars available on the portal.

The screenshot shows the phpMyAdmin interface for the 'carrental' database. The left sidebar lists various tables: 'New', 'admin', 'tblbooking', 'tblbrands', 'tblcontactusinfo', 'tblcontactusquery', 'tblcustomers', 'tbldealers', 'tblpages', 'tblsubscribers', 'tbltestimonial', 'tblusers', 'tblvehicles', 'information_schema', 'mysql', 'performance_schema', 'phpmyadmin', and 'test'. The 'tblbrands' table is selected in the main area. The table structure includes columns: id, BrandName, CreationDate, and UpdationDate. The data grid shows the following rows:

	id	BrandName	CreationDate	UpdationDate
Edit	1	Maruti	2017-06-18 21:54:34	2017-06-19 12:12:23
Edit	2	BMW	2017-06-18 21:54:50	NULL
Edit	3	Audi	2017-06-18 21:55:03	NULL
Edit	4	Nissan	2017-06-18 21:55:13	NULL
Edit	5	Toyota	2017-06-18 21:55:24	NULL
Edit	7	Marutu	2017-06-19 11:52:13	NULL
Edit	8	Yello	2020-04-29 17:14:50	NULL

Below the table, there are buttons for 'Check all', 'With selected', 'Edit', 'Copy', 'Delete', and 'Export'. The bottom section contains buttons for 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'. A 'Bookmark this SQL query' button is also present.

Test Case 11: Manage Testimonials Page

This is the page where an Admin can manage the submitted testimonials from users. The admin can toggle the testimonials from active to inactive and vice versa on this page. The result of doing so shows upon the home page in “Our Satisfied Customers” section. This indicates the success of the Test Case 11.

The screenshot shows a web browser window with multiple tabs open. The active tab is titled 'Car Rental Portal | Admin Manager' and displays the 'Manage Testimonials' page. The left sidebar contains a navigation menu with items like 'Dashboard', 'Brands', 'Vehicles', 'Manage Booking', 'Manage Testimonials' (which is highlighted in blue), 'Manage Contactus Query', 'Reg Users', 'Manage Pages', 'Update Contact Info', and 'Manage Subscribers'. The main content area is titled 'Manage Testimonials' and contains a table titled 'USER TESTIMONIALS'. The table has columns for '#', 'Name', 'Email', 'Testimonials', 'Posting date', and 'Action'. There are three entries in the table:

#	Name	Email	Testimonials	Posting date	Action
1	vineet	xyz@gmail.com	hi just checking testimonial working or not !!	2020-04-21 20:32:04	Active
2	ankit	ankit@gmail.com	hey !! it's a cool website	2020-04-28 17:56:47	Inactive
3	anshul	anshul@gmail.com	oh my god,best website i have even seen.	2020-04-28 17:58:24	Active

Below the table, a message says 'Showing 1 to 3 of 3 entries'. At the bottom right of the page, there are buttons for 'PREVIOUS', '1', and 'NEXT'. The browser's address bar shows the URL 'localhost/currental/admin/testimonials.php'. The system tray at the bottom of the screen shows various icons and the time '21:49'.

The database for managing the above system is given below.

The screenshot shows the phpMyAdmin interface for the 'currental' database. The left sidebar lists various tables: currental, New, admin, tblbooking, tlbrands, tblcontactusinfo, tblcontactusquery, tblcustomers, tbldealers, tbldpages, tlsubscribers, tbltestimonial, tlusers, tlvehicles, information_schema, mysql, performance_schema, and phpmyadmin. The 'tbltestimonial' table is selected in the main workspace. The table structure includes columns: id, UserEmail, Testimonial, PostingDate, and status. The data grid shows three rows of testimonial entries. Below the table, there are sections for 'Query results operations' (Print, Copy to clipboard, Export, Display chart, Create view) and 'Bookmark this SQL query' (Label input, Let every user access this bookmark, Bookmark this SQL query button). The bottom status bar shows system icons and the text 'ENG 21:53'.

	Edit	Copy	Delete	3	xyz@gmail.com	hi just checking testimonial working or not !!	2020-04-21 20:32:04	1
	Edit	Copy	Delete	4	ankit@gmail.com	hey !! it's a cool website	2020-04-28 17:56:47	0
	Edit	Copy	Delete	5	anshul@gmail.com	oh my god,best website i have even seen.	2020-04-28 17:58:24	1

Test Case 12: Contact Us

This is the page to contact the admin of the page regarding the issue or problem they may face regarding the page. For the one to get in touch he/she has to fill some details as you can see in the screenshot below. After filling the necessary details the message regarding the problem is received to the admin through the send message. If they are having any emergency to get in contact the id and mobile no. is given below.

This shows that the test case 12 is passed:

The screenshot shows a web browser window with multiple tabs open at the top. The active tab is titled "amazinghotwheelz.000webhostapp.com/contact-us.php". The page content includes a form for users to "Get in touch using the form below" and a "Contact Info" section. The "Contact Info" section lists the location as "IIIT Allahabad Jhalawala", the email address as "Hotwheel'z@gmail.com", and the phone number as "8585233222". The "Send Message" button is highlighted in red. The browser's taskbar at the bottom shows various pinned icons and the date/time as "01-05-2020 22:08".

The database for managing the above contact page is given below.

The screenshot shows the phpMyAdmin interface for the 'currental' database. The left sidebar lists various tables: New, admin, tblbrands, tblcontactusinfo, tblcontactusquery, tblicustomers, tbldealers, tbldpages, tblsubscribers, tbtestimonial, tbusers, and tbvehicles. The 'tblcontactusinfo' table is selected. The main panel displays the table structure with columns: Id, Address, EmailId, and ContactNo. A single row is shown with the following data:

Id	Address	EmailId	ContactNo
1	IIIT Allahabad, Jhalawa	Hotwheelz@gmail.com	8585233222

Below the table, there are options for 'Edit', 'Copy', 'Delete', 'Check all', and 'With selected'. The bottom section contains 'Query results operations' like Print, Copy to clipboard, Export, Display chart, and Create view. There is also a 'Bookmark this SQL query' button.

Test Case 13: Post Vehicle

This page allows the admin to post a new vehicle into the car listing. This can be accessed from the menu present at the left of the website page which appears after the admin logs in. There are many details to be filled about the vehicle and images must be uploaded by the Admin to post a

vehicle. After the vehicle is added successfully it will show upon the car listing page. Resulting in success of this test case.

The screenshot shows a web browser window with multiple tabs open. The active tab is titled 'Car Rental Portal | Admin PostV' and displays the 'Post A Vehicle' form. The left sidebar contains a navigation menu with options like Dashboard, Brands, Vehicles, Manage Booking, Manage Testimonials, Manage Contact Query, Reg Users, Manage Pages, Update Contact Info, and Manage Subscribers. The main content area has a title 'Post A Vehicle' and a 'BASIC INFO' section. It includes fields for 'Vehicle Title*' (input field), 'Select Brand*' (dropdown menu), 'Vehical Overview*' (text area), 'Price Per Day(in USD)*' (input field), 'Select Fuel Type*' (dropdown menu), 'Model Year*' (input field), and 'Seating Capacity*' (input field). Below this is a section titled 'Upload Images' with five input fields labeled 'Image 1*', 'Image 2*', 'Image 3*', 'Image 4*', and 'Image 5*'. Each input field has a 'Choose File' button and a message indicating 'No file chosen'. The bottom of the screen shows the Windows taskbar with various pinned icons and system status indicators.

The screenshot shows a Windows desktop environment with a browser window open to the 'Car Rental Portal | Admin Post Vehicle' page. The URL in the address bar is `localhost/carrental/admin/post-avehicle.php`. The browser has multiple tabs open, including 'test plan - Google Docs' and 'HotWheelz'. The main content area displays a form for vehicle configuration:

- Vehical Overview***: Fields include 'Price Per Day(in USD)*' (input field), 'Select Fuel Type*' (dropdown menu with 'Select' option), 'Model Year*' (input field), and 'Seating Capacity*' (input field).
- Upload Images**: Five input fields labeled 'Image 1*', 'Image 2*', 'Image 3*', 'Image 4*', and 'Image 5*' each with a 'Choose File' button and a message 'No file chosen'.
- ACCESSORIES**: A grid of checkboxes for vehicle accessories:

<input type="checkbox"/> Air Conditioner	<input type="checkbox"/> Power Door Locks	<input type="checkbox"/> AntiLock Braking System	<input type="checkbox"/> Brake Assist
<input type="checkbox"/> Power Steering	<input type="checkbox"/> Driver Airbag	<input type="checkbox"/> Passenger Airbag	<input type="checkbox"/> Power Windows
<input type="checkbox"/> CD Player	<input type="checkbox"/> Central Locking	<input type="checkbox"/> Crash Sensor	<input type="checkbox"/> Leather Seats
- Buttons at the bottom: 'Cancel' (black) and 'Save changes' (blue).

The left sidebar lists 'MAIN' categories: Dashboard, Brands, Vehicles, Manage Booking, Manage Testimonials, Manage Contact Query, Reg Users, Manage Pages, Update Contact Info, and Manage Subscribers.

The below database manages the data about the vehicles.

localhost/phpmyadmin/sql.php?server=1&db=carrental&table=tblvehicles&pos=0

tblvehicles

	Edit	Copy	Delete	Id	VehiclesTitle	VehiclesBrand	VehiclesOverview	PricePerDay	FuelType	ModelYear	SeatingCapacity	Vimage1	Vimage2	Vimage3
<input type="checkbox"/>	Edit	Copy	Delete	1	BMW	2	S p A is an Italian brand and m...	345345	Petrol	2015	7	knowledge_base_bg.jpg	20170523_145633.jpg	phpgurukul-1.png
<input type="checkbox"/>	Edit	Copy	Delete	2	Maruti Suzuki	2	Maruti Suzuki India Limited, formerly known as Mar...	859	CNG	2015	4	car_755x430.png	looking-used-car.png	banner-image.jpg
<input type="checkbox"/>	Edit	Copy	Delete	3	Toyota	4	a 5 seater hatchback car laun...	563	CNG	2012	5	featured-img-3.jpg	dealer-logo.jpg	img_390x390.jpg
<input type="checkbox"/>	Edit	Copy	Delete	4	Nissan	1	Maruti Wagon is a 5 seater hatchback car launched...	5636	CNG	2012	5	featured-img-3.jpg	featured-img-1.jpg	featured-img-3.jpg
<input type="checkbox"/>	Edit	Copy	Delete	5	Audi	5	The Renault Duster has a 1 Petrol Engine on offer.T...	345345	Petrol	2015	7	car_755x430.png	featured-img-3.jpg	about_us_img1.jpg
<input type="checkbox"/>	Edit	Copy	Delete	6	audi	3	Its cool car, latest model launched in year 2019...	432	Diesel	2019	8	img_390x390.jpg	featured-img-1.jpg	car_755x430.jpg
<input type="checkbox"/>	Edit	Copy	Delete	7	audi	3	Its cool car, latest model launched in year 2020...	453	CNG	2020	6	featured-img-1.jpg	looking-used-car.png	featured-img-1.jpg
<input type="checkbox"/>	Edit	Copy	Delete	8	maruti suzuki	1	Maruti Suzuki India Limited, formerly known as Mar...	445	Petrol	2021	6	featured-img-1.jpg	listing_img3.jpg	looking-used-car.png

localhost/phpmyadmin/sql.php?server=1&db=carrental&table=tblvehicles&pos=0

tblvehicles

	Vimage3	Vimage4	Vimage5	AirConditioner	PowerDoorLocks	AntiLockBrakingSystem	BrakeAssist	PowerSteering	DriverAirbag	PassengerAirbag	Pov
<input type="checkbox"/>	phpgurukul-1.png	social-icons.png		1	1	1	1	1	1	1	1
<input type="checkbox"/>	banner-image.jpg	about_services_faq_bg.jpg		1	1	1	1	1	1	1	1
<input type="checkbox"/>	img_390x390.jpg	listing_img3.jpg		1	1	1	1	1	1	1	NULL
<input type="checkbox"/>	featured-img-1.jpg	featured-img-1.jpg		1	1	1	1	1	1	1	1
<input type="checkbox"/>	about_us_img1.jpg	listing_img3.jpg	NULL	1	1	1	1	1	1	1	1
<input type="checkbox"/>	car_755x430.png	featured-img-1.jpg	banner-image.jpg	1	1	NULL	1	NULL	1	1	1
<input type="checkbox"/>	featured-img-3.jpg	listing_img3.jpg	featured-img-1.jpg	NULL	1	1	NULL	NULL	1	1	1
<input type="checkbox"/>	looking-used-car.png	banner-image.jpg	about_us_img1.jpg	NULL	1	NULL	1	NULL	1	1	1

Table: tblvehicles

EngSystem	BrakeAssist	PowerSteering	DriverAirbag	PassengerAirbag	PowerWindows	CDPlayer	CentralLocking	CrashSensor	LeatherSeats	RegDate	UpdationDate
1	1	1	1	1	1	1	1	1	1	2017-06-19 17:16:23	2020-04-28 06:49:59
1	1	1	1	1	NULL	1	1	NULL	NULL	2017-06-19 21:46:17	2020-04-14 22:58:31
1	1	1	1	NULL	1	1	NULL	NULL	NULL	2017-06-19 21:48:20	2020-04-28 06:48:31
1	1	1	1	1	1	1	NULL	NULL	NULL	2017-06-19 21:48:43	2020-04-28 06:48:51
1	1	1	1	1	1	1	1	1	1	2017-06-20 23:27:09	2020-04-28 06:59:41
NULL	1	NULL	1	1	NULL	1	1	NULL	NULL	2020-04-28 06:55:09	NULL
1	NULL	NULL	1	1	1	1	1	NULL	NULL	2020-04-28 06:56:40	NULL
NULL	1	NULL	1	1	1	NULL	NULL	1	NULL	2020-04-28 06:58:06	NULL

SECTION 3

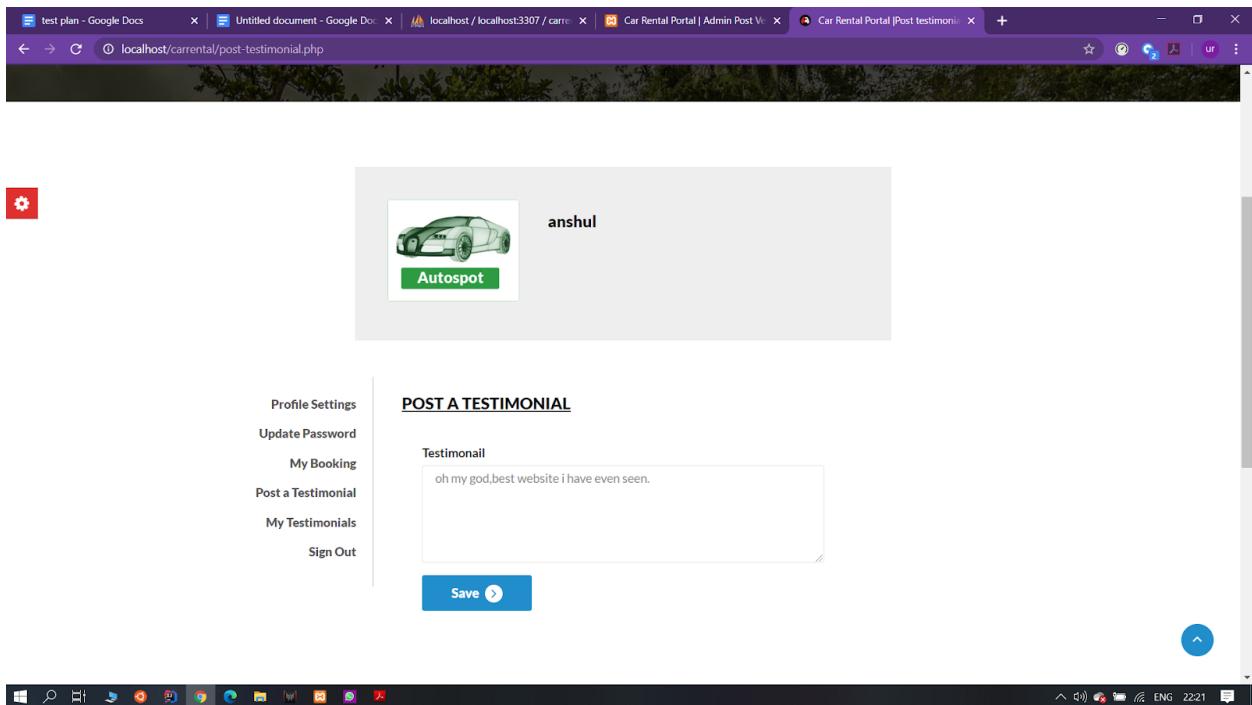
Integration Testing

Integration testing, also known as integration and testing, is a software development process in which program units are combined and tested as groups in multiple ways. In this context, a unit is defined as the smallest testable part of an application. In this section, Integration testing has been performed by considering different modules together to see how the module works together.

Testcase 1

Description:

After submitting a testimonial and after getting approved the user must be able to view their testimonial on the home page. The admin can toggle the testimonials from active to inactive and vice versa on this page. The result of doing so shows upon the home page in “Our Satisfied Customers” section.



After saving the testimonial is viewed by the Admin and approved.

The screenshot shows the 'Car Rental Portal | Admin Panel' interface. On the left, a sidebar titled 'MAIN' lists various administrative functions: Dashboard, Brands, Vehicles, Manage Booking, Manage Testimonials, Manage Contact Query, Reg Users, Manage Pages, Update Contact Info, and Manage Subscribers. The 'Manage Testimonials' option is selected. The main content area is titled 'Manage Testimonials' and contains a table titled 'USER TESTIMONIALS'. The table has columns for #, Name, Email, Testimonials, Posting date, and Action. It displays three entries:

#	Name	Email	Testimonials	Posting date	Action
1	vineet	xyz@gmail.com	hi just checking testimonial working or not !!	2020-04-21 20:32:04	Active
2	ankit	ankit@gmail.com	hey !! it's a cool website	2020-04-28 17:56:47	Inactive
3	anshul	anshul@gmail.com	oh my god.best website i have even seen.	2020-04-28 17:58:24	Active

At the bottom of the table, it says 'Showing 1 to 3 of 3 entries'. There are 'PREVIOUS' and 'NEXT' buttons. The status bar at the bottom shows system icons like battery level, signal strength, and time (21:49).

The home page now shows the submitted testimonial. Implying the test case was successful.

The screenshot shows the 'Car Rental Portal' homepage. The top navigation bar includes links for 'test plan - Google Docs', 'localhost / localhost3307 / carrental', 'Car Rental Portal | Admin Manager', and 'HotWheelz'. The main content features a large image of a dark-colored car. Overlaid on the car image are two white callout boxes containing customer testimonials. The first testimonial is from 'vineet' and reads: 'hi just checking testimonial working or not !!'. The second testimonial is from 'anshul' and reads: 'oh my god.best website i have even seen.' At the bottom of the page, there are 'ABOUT US' and 'SUBSCRIBE NEWSLETTER' buttons, along with a small blue circular icon. The status bar at the bottom shows system icons and time (21:49).

Test Case 2

Description:

We expect that when a car is added onto the car listing it must appear on the page and users must be able to view the details of the car.

A case was prepared where Admin entered the car name as ‘test case’ and brand as ‘Honda’ and the rest of the details and adding it to the list.

The screenshot shows the 'Car Rental Portal | Admin Panel' interface. On the left is a sidebar with 'MAIN' navigation items: Dashboard, Brands, Vehicles, Manage Booking, Manage Testimonials, Manage Contact Query, Reg Users, Manage Pages, Update Contact Info, and Manage Subscribers. The main content area has a 'BASIC INFO' tab selected. It contains fields for 'Vehicle Title*' (test case), 'Select Brand*' (Honda), 'Vehical Overview*' (new), 'Price Per Day(in USD)*' (10), 'Select Fuel Type*' (Petrol), 'Model Year*' (2020), and 'Seating Capacity*' (2). Below this is an 'Upload Images' section with five input fields for images, each labeled 'Choose File' and 'featured-img-1.jpg'. At the bottom is an 'ACCESSORIES' section with checkboxes for Air Conditioner (checked), Power Door Locks, AntiLock Braking System, and Brake Assist.

The car is added into the Car Listing (The last entry). The test case was a success.

The screenshot shows a web browser window with three car listings:

- Car 1:** Maruti, maruti suzuki
\$445 Per Day
6 seats, 2020 model, CNG
- Car 2:** Honda , test case
\$10 Per Day
2 seats, 2020 model, Petrol
- Car 3:** A purple sports car (Jaguar F-Type) with a blurred background.

A "View Details" button is present for each car listing. The browser's address bar shows the URL: localhost/carental/car-listing.php. The operating system taskbar at the bottom includes icons for File Explorer, Task View, Start, Taskbar settings, and several pinned applications like Microsoft Edge, File Explorer, and File History.

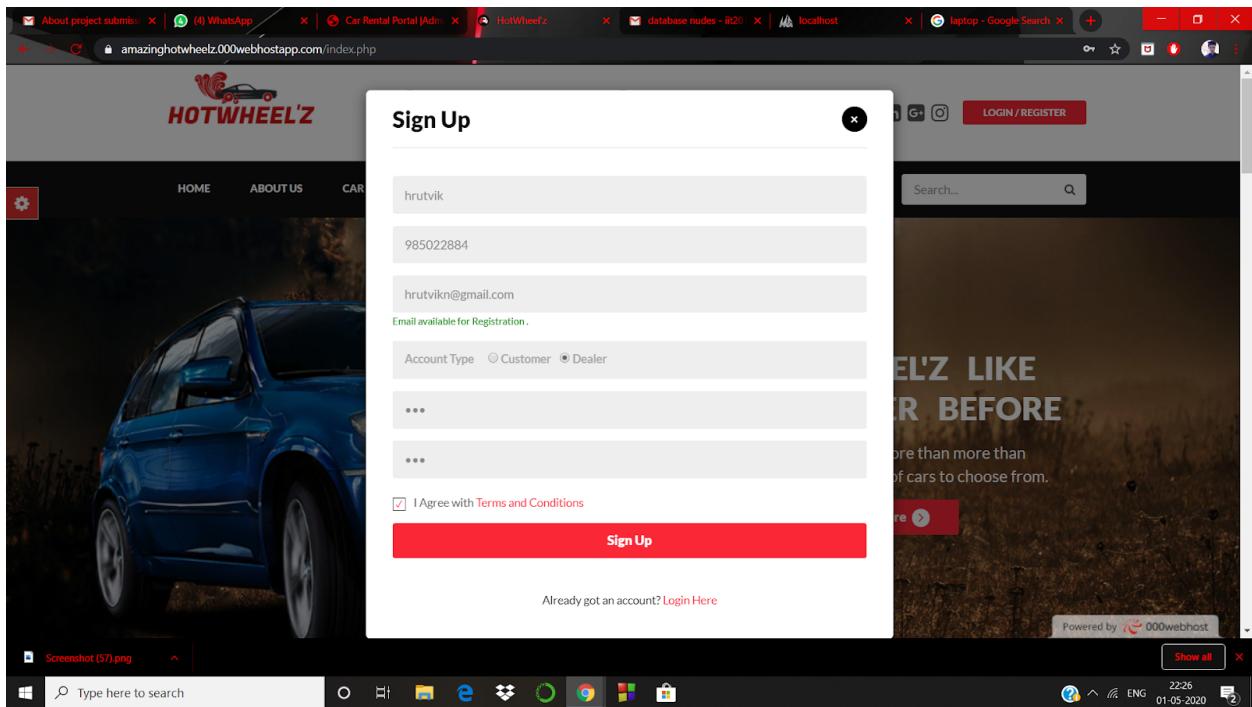
Test Case 3

Description:

We expect that as soon as the Dealer updates his profile in the web page the admin should be able to view it.

A sample details was posted from the Dealer side and was tried to view profile from Admin's side. It was found that admin was successfully able to view the profile.

This is the view for page for the sign Up for the both customer/Dealer



This is the view for page for the Admin for the both customer/Dealer register.

Registered Users

#	Name	Email	Contact no	DOB	Address	City	Country	Reg Date
1	vineet	xyz@gmail.com	1234567891	21/09/1995	jhalwa allabad	kanpur	allahabad	2020-04-21 14:34:56
2	ankit	ankit@gmail.com	1234567891					2020-04-28 12:26:14
3	anshul	anshul@gmail.com	1234567891					2020-04-28 12:27:53
4	Ankit Kumar	ankit05021999@gmail.com	8218947324					2020-04-30 15:33:07
5	Ankit Kumar	ak1031431@gmail.com	8218947324					2020-04-30 15:35:57
6	hrutvik	hrutvik@gmail.com	9850228846					2020-05-01 15:52:32

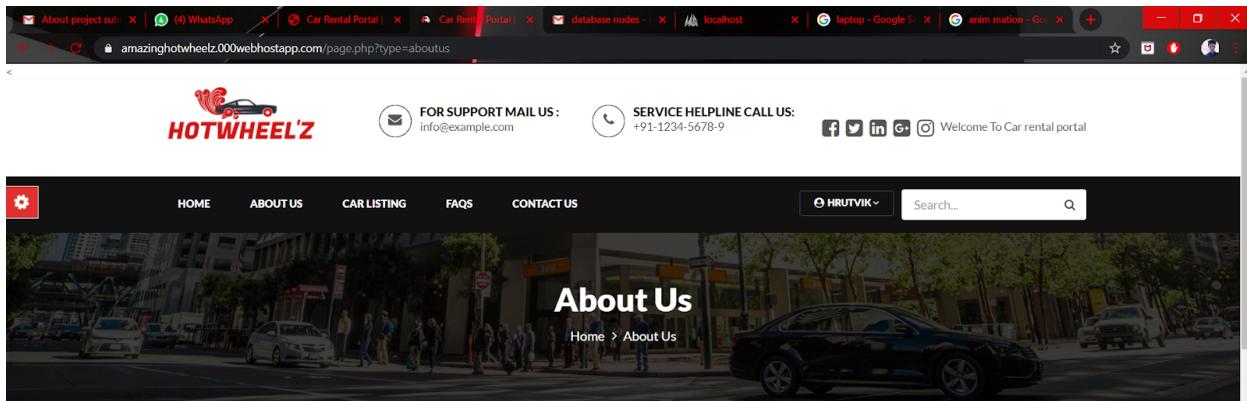
Showing 1 to 6 of 6 entries

Test Case 4

Description:

We expect that the user must be able to view the updates that are made by the admin in the about us page that can be seen by the user in his profile domain.

So a case was prepared where admin uploaded a few changes in the about us page. The sample that was uploaded successfully, which was confirmed by viewing it from the user's side. As soon as the user clicks on the page.

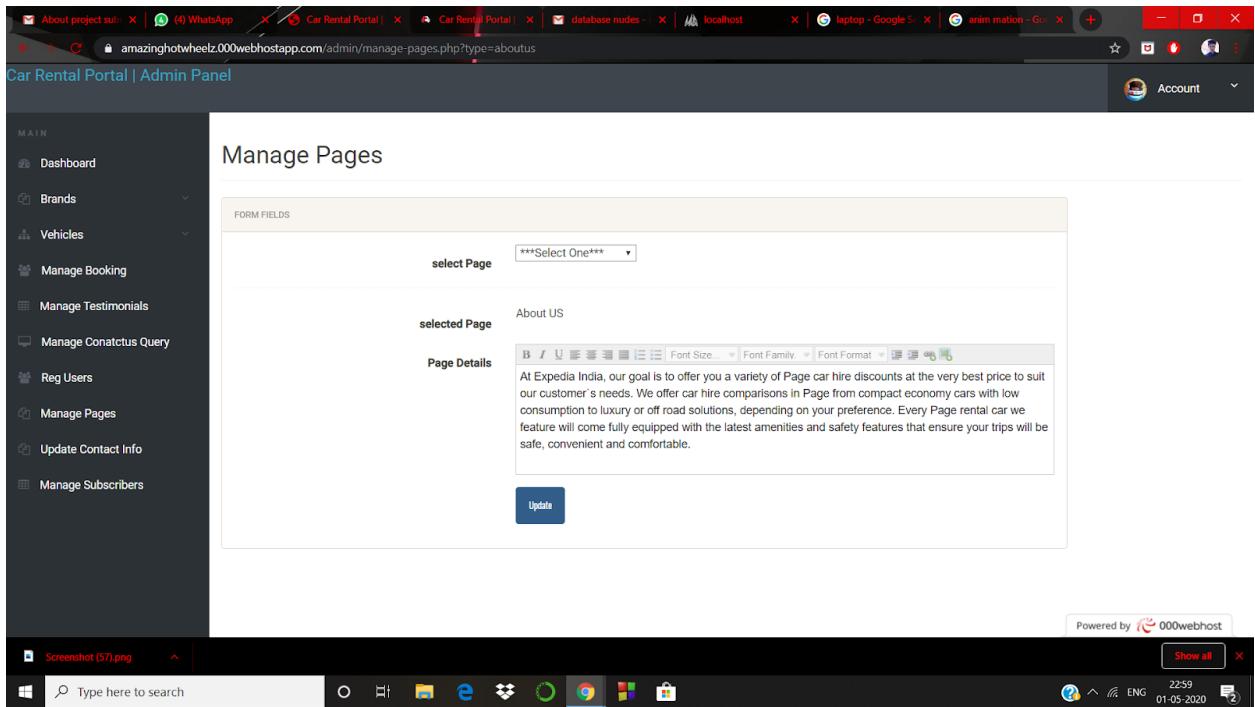


About Us

At Expedia India, our goal is to offer you a variety of Page car hire discounts at the very best price to suit our customer's needs. We offer car hire comparisons in Page from compact economy cars with low consumption to luxury or off road solutions, depending on your preference. Every Page rental car we feature will come fully equipped with the latest amenities and safety features that ensure your trips will be safe, convenient and comfortable.



The admin view where it can update the data is shown below.



Since these related modules are working fine together, this case is passed.

Test Case 5

Description:

We expect that the query of the user reaches the admin and gets solved. The user can ask Admin any query by providing their name, email and phone number along with their message. The query must pop up on the Contact Us Query page, which only an Admin can Access. The page can be accessed from the menu present on the left side of the dashboard.

If the admin is able to access the user's query and mark it resolved, the test case was successful.

The screenshot shows a web browser window with multiple tabs open. The active tab displays a contact form titled "Get in touch using the form below". The form includes fields for Full Name, Email Address, Phone Number, and Message, each with a required asterisk (*). A "Send Message" button is at the bottom. To the right of the form, under the heading "Contact Info", are three entries: a location pin icon followed by "IIIT Allahabad, Jhalawar", a phone icon followed by "Hotwheel'z@gmail.com", and an envelope icon followed by "8585233222". The browser's taskbar at the bottom shows various pinned icons.

Get in touch using the form below

Full Name *

test

Email Address *

test@test.test

Phone Number *

123456789

Message *

Please Reply.....

Send Message

Contact Info

IIIT Allahabad, Jhalawar

Hotwheel'z@gmail.com

8585233222

After sending the message, the message is shown in the following manner. (The last entry)

Manage Contact Us Queries

#	Name	Email	Contact No	Message	Posting date	Action
1	vineet kumar	vineet123@gmail.com	2147483647	Hey I am from ALJahabad	2017-06-18 15:33:07	Read
2	asf	urumum@gmail.com	14143141	qsdfawfe	2020-04-29 17:12:58	Read
3	af	anshulahirwar0902@gmail.com	13412321	14223	2020-04-29 22:44:23	Pending
4	test	test@test.test	123456789	Please Reply.....	2020-05-01 22:49:40	Pending

Showing 1 to 4 of 4 entries

Test Case 6

Description:

Here we expect that once updating the contact info by any user, it can be seen by the admin of the website along with it the new data gets stored in the database and the user can see changes in its own profile instantaneously.

From here general update is carried out if its gets updated in databases and visible to all users including admin then this test case is successful.

GENERAL SETTINGS

Reg Date - 2020-04-30 15:33:07

Full Name

Ankit Kumar

Email Address

ankitk05021999@gmail.com

Phone Number

8218947324

Date of Birth (dd/mm/yyyy)

dd/mm/yyyy

Your Address



Powered by 000webhost

The database where all the information gets stored about the users.

test plan - Google Docs

localhost / localhost:3307 / carrental

Car Rental Portal | Admin Change

localhost/phpmyadmin/sql.php?server=1&db=carrental&table=tblcontactusquery&pos=0

phpMyAdmin

Recent | Favorites

currental

- New
- tblbooking
- tblbrands
- tblcontactusinfo
- tblcontactusquery
- admin
- tblcustomers
- tbldealers
- tblpages
- tblsubscribers
- tbltestimonial
- tblusers
- tblvehicles

information_schema

- mysql
- performance_schema
- phpmyadmin
- test

Server: localhost:3307 | Database: currental | Table: tblcontactusquery

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 2 (3 total, Query took 0.0009 seconds.)

SELECT * FROM `tblcontactusquery`

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

	id	name	EmailId	ContactNumber	Message	PostingDate	status
<input type="checkbox"/>	1	vineel kumar	vineet123@gmail.com	2147483647	Hey I am from Allahabad	2017-06-18 15:33:07	1
<input type="checkbox"/>	2	asf	urumum@gmail.com	14143141	qsdfawfe	2020-04-29 17:12:58	1
<input type="checkbox"/>	3	af	anishulahirwar0902@gmail.com	13412321	14223	2020-04-29 22:44:23	NULL

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Check all With selected: Edit Copy Delete Export

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: Let every user access this bookmark

Bookmark this SQL query

localhost/phpmyadmin/sql.php?server=1&db=carrental&table=tblcontactusquery&pos=0

COHESION

Cohesion refers to the degree to which the elements inside a module belong together.

TEST CASE 1:

move_uploaded_file(*file*, *dest*)

The move_uploaded_file() function moves an uploaded file to a new destination. This function only works on files uploaded via PHP's HTTP POST upload mechanism. If the destination file already exists, it will be overwritten.

file Specifies the filename of the uploaded file

dest Specifies the new location for the file

```
$powersteering=$_POST['powersteering'];
$driverairbag=$_POST['driverairbag'];
$passengerairbag=$_POST['passengerairbag'];
$powerwindow=$_POST['powerwindow'];
$cdblplayer=$_POST['cdblplayer'];
$centrallocking=$_POST['centrallocking'];
$crashcensor=$_POST['crashcensor'];
$leatherseats=$_POST['leatherseats'];
move_uploaded_file($_FILES["img1"]["tmp_name"],"img/vehicleimages/".$_FILES["img1"]["name"]);
move_uploaded_file($_FILES["img2"]["tmp_name"],"img/vehicleimages/".$_FILES["img2"]["name"]);
move_uploaded_file($_FILES["img3"]["tmp_name"],"img/vehicleimages/".$_FILES["img3"]["name"]);
move_uploaded_file($_FILES["img4"]["tmp_name"],"img/vehicleimages/".$_FILES["img4"]["name"]);
move_uploaded_file($_FILES["img5"]["tmp_name"],"img/vehicleimages/".$_FILES["img5"]["name"]);

$sql="INSERT INTO tblvehicles(VehiclesTitle,VehiclesBrand,VehiclesOverview,PricePerDay,FuelType,M  
age3,Vimage4,Vimage5,AirConditioner,PowerDoorLocks,AntiLockBrakingSystem,BrakeAssist,PowerSteeri  
s,CDPlayer,CentralLocking,CrashSensor,LeatherSeats) VALUES(:vehicletitle,:brand,:vehicleoverview,  
apacity,:vimage1,:vimage2,:vimage3,:vimage4,:vimage5,:airconditioner,:powerdoorlocks,:antilockbra  
airbag,:passengerairbag,:powerwindow,:cdblplayer,:centrallocking,:crashcensor,:leatherseats)";
$query = $dbh->prepare($sql);
$query->bindParam(':vehicletitle',$vehicletitle,PDO::PARAM_STR);
$query->bindParam(':brand',$brand,PDO::PARAM_STR);
$query->bindParam(':vehicleoverview',$vehicleoverview,PDO::PARAM_STR);
$query->bindParam(':priceperday',$priceperday,PDO::PARAM_STR);
$query->bindParam(':fueltype',$fueltype,PDO::PARAM_STR);
```

TEST CASE 2:

```
window.onload()
```

The onload event occurs when an object has been loaded. onload is most often used within the <body> element to execute a script once a web page has completely loaded all content (including images, script files, CSS files, etc.).

The onload event can be used to check the visitor's browser type and browser version, and load the proper version of the web page based on the information.

```
<script>

window.onload = function(){

    // Line chart from swirlData for dashReport
    var ctx = document.getElementById("dashReport").getContext("2d");
    window.myLine = new Chart(ctx).Line(swirlData, {
        responsive: true,
        scaleShowVerticalLines: false,
        scaleBeginAtZero : true,
        multiTooltipTemplate: "<%if (label){%><%=label%>: <%}%><%= value %>",
    });

    // Pie Chart from doughnutData
    var doctx = document.getElementById("chart-area3").getContext("2d");
    window.myDoughnut = new Chart(doctx).Pie(doughnutData, {responsive : true});

    // Doughnut Chart from doughnutData
    var doctx = document.getElementById("chart-area4").getContext("2d");
    window.myDoughnut = new Chart(doctx).Doughnut(doughnutData, {responsive : true});

}
</script>
```

TEST CASE 3:

Post http service

```
<div class="col-md-12 col-sm-6">
<form method="post" name="signup" onSubmit="return valid();">
  <div class="form-group">
    <input type="text" class="form-control" name="fullname" placeholder="Full Name" required="required">
  </div>
  <div class="form-group">
    <input type="text" class="form-control" name="mobilenumber" placeholder="Mobile Number" maxlength="10" required="required">
  </div>
  <div class="form-group">
    <input type="email" class="form-control" name="emailid" id="emailid" onBlur="checkAvailability()" placeholder="Email Address" required="required">
    <span id="user-availability-status" style="font-size:12px;"></span>
  </div>
  <div class="form-group" style="background-color:#eeeeee;padding: 10px 15px;color:#aaaaaa;">
    <div style="display:inline-block;">
      <label>Account Type</label>
    </div>
    <div style="display:inline-block;padding-left: 15px;">
      <input type="radio" id="customer" name="user_type" value="customer">
      <label for="customer">Customer</label>
      &nbsp;&nbsp;
      <input type="radio" id="dealer" name="user_type" value="dealer">
      <label for="dealer">Dealer</label>
    </div>
  </div>
  <div class="form-group">
    <input type="password" class="form-control" name="password" placeholder="Password" required="required">
  </div>
  <div class="form-group">
    <input type="password" class="form-control" name="confirmpassword" placeholder="Confirm Password" required="required">
  </div>
  <div class="form-group checkbox">
    <input type="checkbox" id="terms_agree" required="required" checked="">
    <label for="terms_agree">I Agree with <a href="#">Terms and Conditions</a></label>
  </div>
  <div class="form-group">
    <input type="submit" value="Sign Up" name="signup" id="submit" class="btn btn-block">
  </div>
</form>
```

Form is submitted using post method. Information sent from a form with the POST method is invisible to others (all names/values are embedded within the body of the HTTP request) and has no limits on the amount of information to send.

Moreover POST supports advanced functionality such as support for multi-part binary input while uploading files to server.

However, because the variables are not displayed in the URL, it is not possible to bookmark the page.

```

1 <?php
2 //error_reporting(0);
3 if(isset($_POST['signup']))
4 {
5 $fname=$_POST['fullname'];
6 $email=$_POST['emailid'];
7 $mobile=$_POST['mobileno'];
8 $password=md5($_POST['password']);
9 $type = $_POST['user_type'];
10 $sql="INSERT INTO tblusers(FullName,EmailId,ContactNo,Password,Type) VALUES(:fname,:email,:mobile,:password,:type)";
11 $query = $dbh->prepare($sql);
12 $query->bindParam(':fname',$fname,PDO::PARAM_STR);
13 $query->bindParam(':email',$email,PDO::PARAM_STR);
14 $query->bindParam(':mobile',$mobile,PDO::PARAM_STR);
15 $query->bindParam(':password',$password,PDO::PARAM_STR);
16 $query->bindParam(':type',$type,PDO::PARAM_STR);
17 $query->execute();
18 $lastInsertId = $dbh->lastInsertId();
19 if($lastInsertId)
20 {
21 if($type == 'dealer')
22     $which_table = 'tbldealers';
23 else if($type == 'customer')
24     $which_table = 'tblcustomers';
25
26 $sql="INSERT INTO ".$which_table."(id,FullName,EmailId,ContactNo,Password,Type)
      VALUES(:lastInsertId,:fname,:email,:mobile,:password,:type)";
27 $query = $dbh->prepare($sql);
28 $query->bindParam(':lastInsertId',$lastInsertId,PDO::PARAM_STR);
29 $query->bindParam(':fname',$fname,PDO::PARAM_STR);
30 $query->bindParam(':email',$email,PDO::PARAM_STR);
31 $query->bindParam(':mobile',$mobile,PDO::PARAM_STR);
32 $query->bindParam(':password',$password,PDO::PARAM_STR);
33 $query->bindParam(':type',$type,PDO::PARAM_STR);
34 $query->execute();
35
36 echo "<script>alert('Registration successfull. Now you can login');</script>";
37 }

```

Test Case 4:

PDO for SQL query

A great benefit of PDO is that it has an exception class to handle any problems that may occur in our database queries. If an exception is thrown within the try{} block, the script stops executing and flows directly to the first catch(){ } block.

```

<?php
// DB credentials.
define('DB_HOST','localhost');
define('DB_USER','root');
define('DB_PASS','');
define('DB_NAME','carrental');
// Establish database connection.
try
{
$dbh = new PDO("mysql:host=".DB_HOST.";dbname=".DB_NAME,DB_USER, DB_PASS,array(PDO::MYSQL_ATTR_INIT_COMMAND => "SET NAMES 'utf8'"));
}
catch (PDOException $e)
{
exit("Error: " . $e->getMessage());
}
?>

```

Test Case 5:

`$_REQUEST[]` method

PHP `$_REQUEST` is a PHP super global variable which is used to collect data after submitting an HTML form. When a user submits the data by clicking on "Submit", the form data is sent to the file specified in the action attribute of the `<form>` tag.

```
1  <?php
2  session_start();
3  error_reporting(0);
4  include('includes/config.php');
5  if(strlen($_SESSION['alogin'])==0)
6  {
7  header('location:index.php');
8  }
9 else{
10 if(isset($_REQUEST['del']))
11 {
12 $delid=intval($_GET['del']);
13 $sql = "delete from tblvehicles WHERE id=:delid";
14 $query = $dbh->prepare($sql);
15 $query -> bindParam(':delid',$delid, PDO::PARAM_STR);
16 $query -> execute();
17 $msg="Vehicle record deleted successfully";
18 }
19 }
20
21
22 ?>
23
24 <!doctype html>
25 <html lang="en" class="no-js">
26
27 <head>
28   <meta charset="UTF-8">
29   <meta http-equiv="X-UA-Compatible" content="IE=edge">
30   <meta name="viewport" content="width=device-width, initial-scale=1, minimum-scale=1, maximum-scale=1">
31   <link href="css/bootstrap.min.css" rel="stylesheet">
32   <link href="css/style.css" rel="stylesheet">
33 </head>
34 <body>
35   <div class="container">
36     <div class="row">
37       <div class="col-md-12" style="text-align: center; margin-top: 20px;">
38         
39         <h1>Vehicle Management System</h1>
40         <h2>Delete Vehicle</h2>
41         <hr style="margin: 10px 0; border: none; border-top: 1px solid #ccc; width: 100%; display: inline-block; position: relative; top: -10px; left: 0;"/>
42         <div style="background-color: #f2f2f2; padding: 10px; border-radius: 5px; margin-bottom: 10px;">
43           <table border="1" style="width: 100%; border-collapse: collapse; text-align: center; border: none; margin-bottom: 5px;">
44             <tr>
45               <td style="padding: 5px;">Vehicle ID
46               <td style="padding: 5px;">Vehicle Name
47             </tr>
48           </table>
49           <table border="1" style="width: 100%; border-collapse: collapse; text-align: center; border: none; margin-bottom: 5px;">
50             <tr>
51               <td style="padding: 5px;">1
52               <td style="padding: 5px;">BMW X5
53             </tr>
54           </table>
55           <table border="1" style="width: 100%; border-collapse: collapse; text-align: center; border: none; margin-bottom: 5px;">
56             <tr>
57               <td style="padding: 5px;">2
58               <td style="padding: 5px;">BMW X6
59             </tr>
60           </table>
61           <table border="1" style="width: 100%; border-collapse: collapse; text-align: center; border: none; margin-bottom: 5px;">
62             <tr>
63               <td style="padding: 5px;">3
64               <td style="padding: 5px;">BMW X1
65             </tr>
66           </table>
67           <table border="1" style="width: 100%; border-collapse: collapse; text-align: center; border: none; margin-bottom: 5px;">
68             <tr>
69               <td style="padding: 5px;">4
70               <td style="padding: 5px;">BMW X3
71             </tr>
72           </table>
73           <table border="1" style="width: 100%; border-collapse: collapse; text-align: center; border: none; margin-bottom: 5px;">
74             <tr>
75               <td style="padding: 5px;">5
76               <td style="padding: 5px;">BMW X7
77             </tr>
78           </table>
79           <table border="1" style="width: 100%; border-collapse: collapse; text-align: center; border: none; margin-bottom: 5px;">
80             <tr>
81               <td style="padding: 5px;">6
82               <td style="padding: 5px;">BMW X2
83             </tr>
84           </table>
85           <table border="1" style="width: 100%; border-collapse: collapse; text-align: center; border: none; margin-bottom: 5px;">
86             <tr>
87               <td style="padding: 5px;">7
88               <td style="padding: 5px;">BMW X4
89             </tr>
90           </table>
91           <table border="1" style="width: 100%; border-collapse: collapse; text-align: center; border: none; margin-bottom: 5px;">
92             <tr>
93               <td style="padding: 5px;">8
94               <td style="padding: 5px;">BMW X9
95             </tr>
96           </table>
97           <table border="1" style="width: 100%; border-collapse: collapse; text-align: center; border: none; margin-bottom: 5px;">
98             <tr>
99               <td style="padding: 5px;">9
100              <td style="padding: 5px;">BMW X8
101            </tr>
102          </table>
103        <hr style="margin: 10px 0; border: none; border-top: 1px solid #ccc; width: 100%; display: inline-block; position: relative; top: -10px; left: 0;"/>
104        <div style="text-align: center; margin-top: 10px;">
105          <input type="button" value="Delete" style="width: 150px; height: 40px; background-color: #007bff; color: white; border: none; font-weight: bold; font-size: 16px; border-radius: 5px; cursor: pointer;" />
106        </div>
107      </div>
108    </div>
109  </div>
110 </body>
111 </html>
```

SECTION 4:

SYSTEM TESTING

SYSTEM TESTING is a level of **testing** that validates the complete and fully integrated software product. The purpose of a **system test** is to evaluate the end-to-end **system** specifications. Usually, the software is only one element of a larger computer-based **system**. While comparing against the requirements, various scenarios have been generated to know if there is any bug or not, and various bugs have been found as follows:

Scenario 1:

1 MB above image cannot be uploaded

While we were uploading the sample image to check if the images are uploaded in the database, we saw a couple of the images were not uploaded.

After many attempts, we observed that the images which are larger than 20 MB of size, cannot be uploaded.

Errors Found:

Bug 1 was found during this test. Otherwise the results were as expected.

Scenario 2:

Execution of malicious query into the database by someone with unauthorised access.

Since our application is in primitive state with no supporting security framework so far, there is a possibility that hacker may break into the admin's system using SQL injection, and is able to execute malicious query into the database.

Errors Found:

Bug 2 was found during this test. Otherwise the database will function normally.

Scenario 3:

When there will be low internet connection, website may take infinite time to fully accessible. If any action during slow internet connection it may be possible user have to reload site and queries done by user may lost.

Errors Found:

Bug 3 was found during this test. Otherwise the website navigation will not be affected.

SECTION 5: FOUND AND FIXED BUG

In this section, the bugs we found during the first execution of test cases are listed. Also the fixes for bugs are listed. All bugs listed here are fixed.

BUG 1

Description: It was found that sometimes Website doesn't load on laptop rather than android phone. It may happen only with some users. After few hours or day, it may work properly it shlef.

Fix: It is advised to clear all cookies related to this website from browser or change website desktop screen to android phone screen. Second option may not work for few users.

BUG 2

Description: It was found that sometimes some user were not able to register new account successfully. It was showing unobivious problem which we have tried to much to rectify but can't.

Fix: It is advised to clear all cookies related to this website from browser or change website desktop screen to android phone screen. Second option may not work for few users.

BUG 3

Description: It was found that sometimes website does not load and browser showing problem stating "There is not such website" which means files are removed from browser or there is not website with this domain name.

Fix: It was not fixed yet. We are trying to improve it much earlier.

BUG 4

Description: Sometimes problems arise during posting of new testimonials from the user side.

Fix: It was due to our error in php code. We rectify it, now user can easily post testimonial

REFERENCES

- [1]DaCoPAn2 Software Engineering Project, Test plan. Release 2.0. University of Helsinki, March 2005.
- [2]’Mieten’ Software Engineering Project, Test plan.NIIT.