



Graduate Diploma

Level 7

STD621: Internet Programming

Second Assignment – Project Report

Final Result: _____

Assessor

Signature _____

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1. Introduction.

The idea of this document, is to show to the stakeholders how and why the technologies are used to create a simple, but functional website that has some components inside.

In order to cover the whole development of the project, this document is going to be structured by every page that was created chronologically by time.

2. Development.

The development of the first assignment was based on the guidelines of the lecturer and the head's department of IT.

2.1 Specifications

For the first page was generated a html file with all the basic information related to the web application, for this web page the technologies used were: Bootstrap, jQuery, PHP, JavaScript, CSS, Ajax and MySQL.

The idea of this assignment was to get to know different methodologies and structures to accomplish the tasks described for the project, so that each PHP has its own CSS file and JS file.

The web application was thought to be easy to use and intuitive, so has a simple, but decent background combination of colors such as: white, black, brown and some blue in the buttons and some objects.

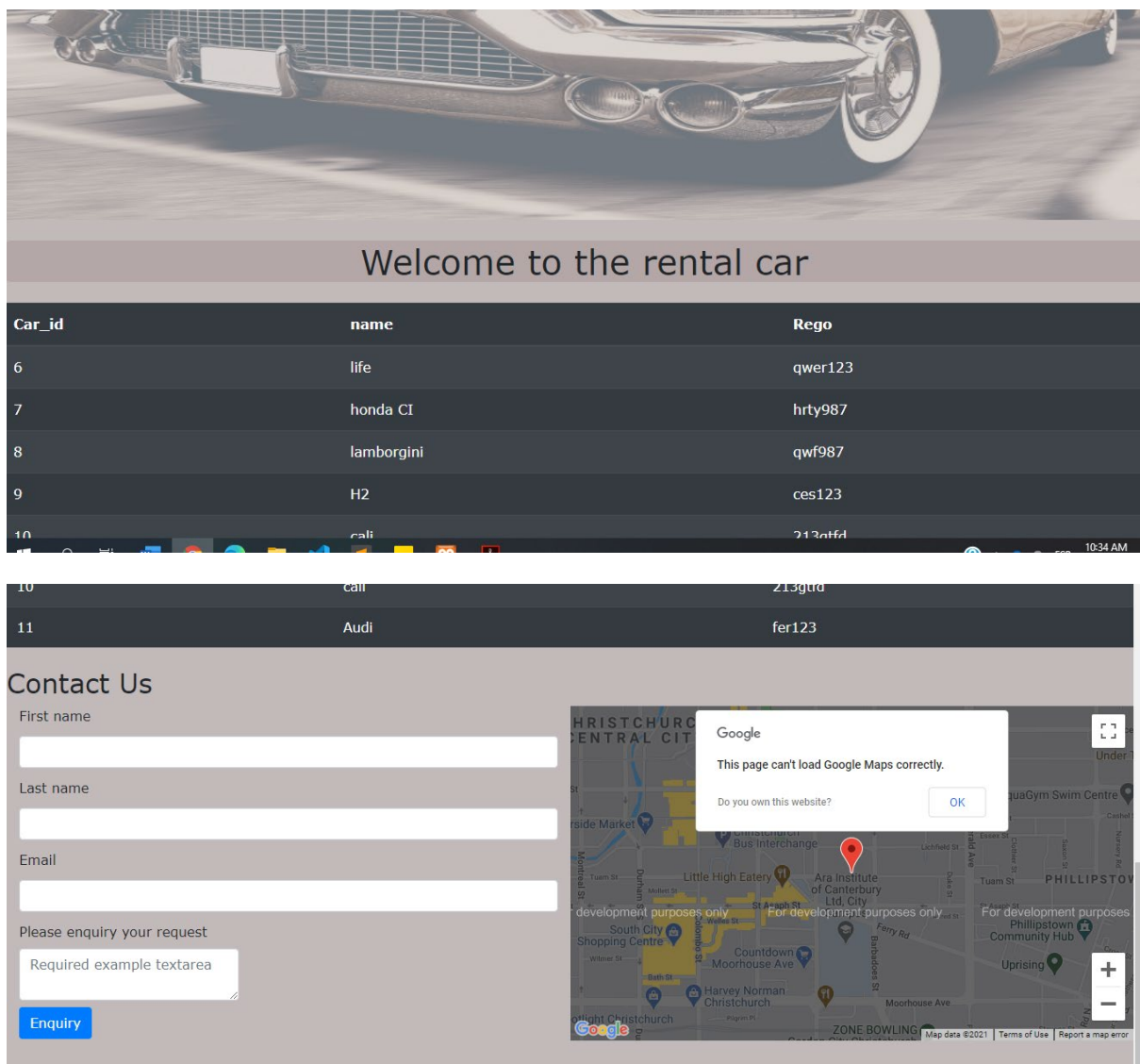
In order to create the Navbar, I decided to work with jQuery and the class "wrapper" which comes from the Bootstrap library. Basically, It was needed to compress the menu in the top of the header to stick it to the top of the first web page in order to give the final user always an alternative to navigate into the different pages.



2.2 Project Guideline

For this project there are three type of user

Visitors: This User is an user that is not registered in the system. However this user can look for the cars available in the system as well as send an enquiry to the system admin. In addition, this user can see the Company location in a google maps api. This user can Register and Login in the system.



The screenshot displays a web application for a rental car service. At the top, there is a header image of a classic car with the text "Welcome to the rental car". Below this is a table listing available cars. The table has three columns: Car_id, name, and Rego. The data rows are as follows:

Car_id	name	Rego
6	life	qwer123
7	honda CI	hrty987
8	lamborgini	qwf987
9	H2	ces123
10	cali	213ttfd
11	Audi	fer123

Below the table is a "Contact Us" section with a form for user enquiries. The form includes fields for "First name", "Last name", and "Email". There is also a text area for "Please enquiry your request" with a placeholder "Required example textarea". A blue "Enquiry" button is located at the bottom of the form. To the right of the form is a Google Maps API showing a map of Christchurch, New Zealand. A Google error message is displayed over the map, stating "This page can't load Google Maps correctly. Do you own this website?" with an "OK" button.

3 / 3



Welcome to the rental car



Car Rental

Sing into your account

Login

Not a user? [Register Here](#)

☐ I'm not a robot



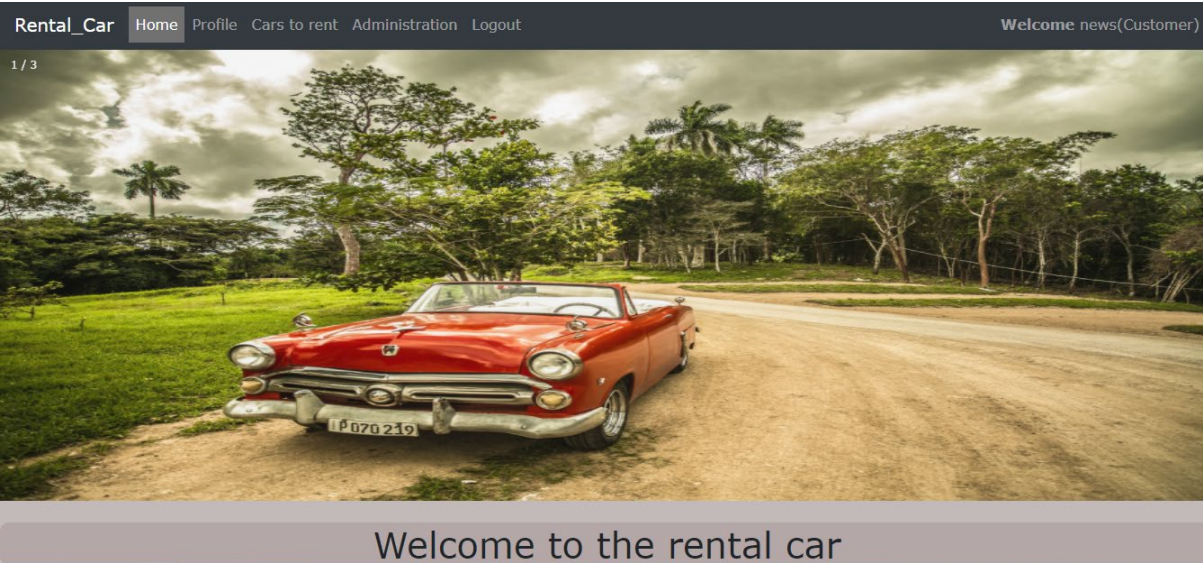
Car Rental

Register new account

Register

Already an user? [Login Here](#)

Customer: This user can see all the same pages as the visitor, but has more options and visibility into the system. This user can modify its own profile, rent a car and logout into the system.



Rental_Car Home Profile Cars to rent Administration Logout Welcome news(Customer)

Update User

Please fill the form

Username

Password

Email

Update

Rental_Car Home Profile Cars to rent Administration Logout Welcome news(Customer)

Rental Site

Car_id	Name	Rego	Action
6	life	qwer123	<button>Rent Car</button>
7	honda Cl	hrty987	<button>Rent Car</button>
8	lamborghini	qwif987	<button>Rent Car</button>
9	H2	ces123	<button>Rent Car</button>
10	cali	213gtfd	<button>Rent Car</button>
11	Audi	fer123	<button>Rent Car</button>

Admin: This user has access to all features, this user can do the same functions as the previous users plus, the administration module, which consist of:

- Display users
- Edit/update users
- Add new users
- Add new cars
- Edit car information
- Accept or reject a car request

Rental_Car

HomeProfileCars to rentAdministrationLogout

Welcome sa (Administrator)

Welcome to the administration module

Please select an option:

Registered users

Edit/update user

Add new user

Add new car

Edit car information

Car Requests

Rental_Car

HomeProfileCars to rentAdministrationLogout

Welcome sa (Administrator)

Display Users

User_id	Email	Username	Role
1	sas1@gmail.com	sa	Admin
142	en@hete.com	ent	Admin
179	new@user.com	news	Customer
180	concesar12@hotmail.com	cesar-guerrero	Customer

Go back

Edit/Update Users

User_id	Email	Username	Role	Action
1	sas1@gmail.com	sa	Admin	Edit Delete
142	en@hete.com	ent	Admin	Edit Delete
179	new@user.com	news	Customer	Edit Delete
180	concesar12@hotmail.com	cesar-guerrero	Customer	Edit Delete

[Go back](#)

Add new User

Please fill the form

Username

Password

Email

Role:

[Add user](#)[Go back](#)

Add new Car

Please fill the form

Available ☐

[Add car](#)[Go back](#)

Rental_Car	Home	Profile	Cars to rent	Administration	Logout	Welcome sa (Administrator)
------------	------	---------	--------------	----------------	--------	----------------------------

Delete/Update Cars

Car_id	Name	Rego	Available	Action
1	mazda	asdf1234	no	Edit Delete
6	life	qwer123	yes	Edit Delete
7	honda CI	hrty987	yes	Edit Delete
8	lamborghini	qwf987	yes	Edit Delete
9	H2	ces123	yes	Edit Delete
10	cali	213gtfd	yes	Edit Delete
11	Audi	fer123	yes	Edit Delete

Rental_Car	Home	Profile	Cars to rent	Administration	Logout	Welcome sa (Administrator)
------------	------	---------	--------------	----------------	--------	----------------------------

Car approval

Car_id	Car name	Rego	Username	User_id	Action
1	mazda	asdf1234	sa	1	Approve Reject

[Go back](#)

Functionalities

- Effective utilisation of good programming practices in your code base:
 - o PHP – Use of reusable methods, php scripts and meaningful naming of files, methods and variables.

This project is using reusable css and js files as well as a main server which has the connection to the database.

📁 CSS	✓	3/29/2021 9:43 PM	File folder	
📁 Images	✓	3/29/2021 9:43 PM	File folder	
📁 js	✓	3/29/2021 9:43 PM	File folder	
📄 add_car.php	✓	3/29/2021 4:57 PM	PHP Source File	3 KB
📄 Add_user.php	✓	3/29/2021 4:55 PM	PHP Source File	3 KB
📄 Admin.php	✓	3/26/2021 5:21 PM	PHP Source File	5 KB
📄 Administration.php	✓	3/29/2021 4:48 PM	PHP Source File	3 KB
📄 app_car.php	✓	3/26/2021 10:02 AM	PHP Source File	1 KB
📄 Approval.php	✓	3/29/2021 5:19 PM	PHP Source File	4 KB
📄 CarAdd.php	✓	3/21/2021 5:08 PM	PHP Source File	1 KB
📄 customer.php	✓	3/29/2021 4:47 PM	PHP Source File	3 KB
📄 delete_car.php	✓	3/25/2021 11:54 AM	PHP Source File	1 KB
📄 delete_user.php	✓	3/25/2021 12:01 AM	PHP Source File	1 KB
📄 Display_user.php	✓	3/29/2021 4:48 PM	PHP Source File	3 KB
📄 ed_car.php	✓	3/29/2021 4:59 PM	PHP Source File	4 KB
📄 ed_user.php	✓	3/29/2021 4:54 PM	PHP Source File	4 KB
📄 Edit_car.php	✓	3/29/2021 4:58 PM	PHP Source File	4 KB
📄 Edit_user.php	✓	3/29/2021 4:53 PM	PHP Source File	4 KB
📄 error.php	✓	3/17/2021 2:20 PM	PHP Source File	1 KB
📄 index.php	✓	3/29/2021 9:04 PM	PHP Source File	7 KB
📄 Login.php	✓	3/29/2021 9:42 PM	PHP Source File	4 KB
📄 modify_car.php	✓	3/25/2021 11:45 AM	PHP Source File	1 KB
📄 modify_user.php	✓	3/29/2021 5:23 PM	PHP Source File	1 KB
📄 Registration.php	✓	3/26/2021 12:01 PM	PHP Source File	3 KB
📄 reject.php	✓	3/26/2021 10:26 AM	PHP Source File	1 KB
📄 rent_car.php	✓	3/26/2021 10:13 AM	PHP Source File	1 KB
📄 Rental.php	✓	3/29/2021 4:48 PM	PHP Source File	4 KB
📄 Server.php	✓	3/28/2021 1:09 PM	PHP Source File	3 KB
📄 Update_Profile.php	✓	3/29/2021 4:45 PM	PHP Source File	4 KB
📄 UserAdd.php	✓	3/21/2021 6:05 PM	PHP Source File	1 KB

o HTML – Reasonable structuring and reusability of common templates across your application.

```

1 <?php
2 session_start();
3 ?>
4
5 <!DOCTYPE html>
6 <html lang="en">
7 <head>
8 <meta charset="UTF-8">
9 <meta http-equiv="X-UA-Compatible" content="IE=edge">
10 <meta name="viewport" content="width=device-width, initial-scale=1.0">
11 <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"
12 integrity="sha384-B8vP5xmATw1+K9KRQJQER3vTumQW8nPEzvf6L/Z6nronJ3oUOFUPCjEUQouq241" crossorigin="anonymous">
13 <link rel="stylesheet" href="CSS/style.css">
14 <title>Add User</title>
15 </head>
16 <body>
17
18 <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
19 <a class="navbar-brand" href="#">Rental_Car</a>
20 <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarText"
21 aria-controls="navbarText" aria-expanded="false" aria-label="Toggle navigation">
22 <span class="navbar-toggler-icon"></span>
23 </button>
24 <div class="collapse navbar-collapse" id="navbarText">
25 <ul class="navbar-nav mr-auto">
26 <li class="nav-item">
27 <a class="nav-link" href="customer.php">Home</a>
28 </li>
29 <li class="nav-item">
30 <a class="nav-link" href="Update_Profile.php">Profile</a>
31 </li>
32 <li class="nav-item">
33 <a class="nav-link" href="Rental.php">Cars to rent</a>
34 </li>
35 <li class="nav-item active">
36 <a class="nav-link" href="Administration.php">Administration<span class="sr-only">(current)</span></a>
37 </li>
38 <li class="nav-item">
39 <a class="nav-link" href="customer.php?logout='1'">Logout</a>
40 </li>

```

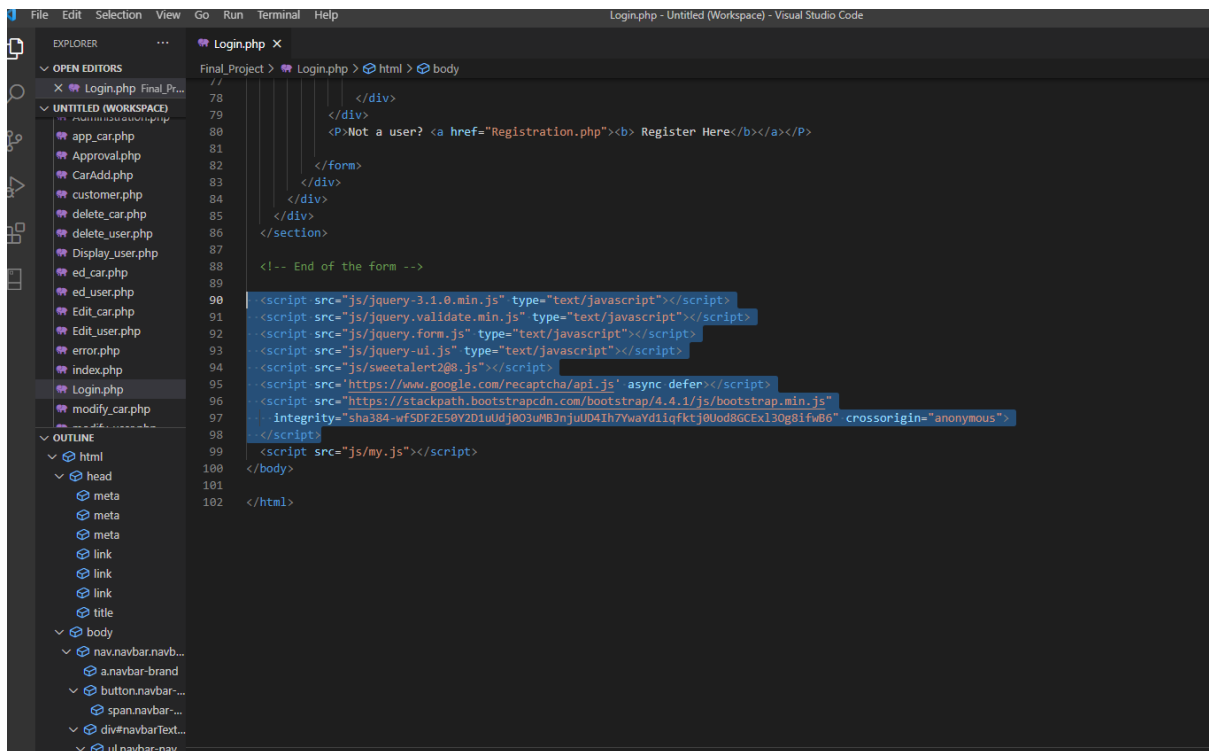
o CSS – Reasonable structuring and use of external CSS files within your application

```

1 * {
2   box-sizing: border-box;
3 }
4 body {
5   font-family: Verdana, sans-serif;
6   background: #191919;
7 }
8 .mySlides {
9   display: none;
10 }
11
12 img {
13   vertical-align: middle;
14   height: 500px;
15 }
16
17 /* Slideshow container */
18 .slideshow-container {
19   /* max-width: 1000px; */
20   position: relative;
21   margin: auto;
22 }
23
24 /* Caption text */
25 .text {
26   color: #f2f2f2;
27   font-size: 15px;
28   padding: 8px 12px;
29   position: absolute;
30   bottom: 8px;
31   width: 100%;
32   text-align: center;
33 }
34
35 /* Number text (1/3 etc) */
36 .numbertext {
37   color: #f2f2f2;
38   font-size: 12px;
39   padding: 8px 12px;
40   position: absolute;
41   top: 0;

```

o Appropriate use of the following:



```
//
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
```

```
<?php include('Server.php') ?>

<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"
    integrity="sha384-B0vP5xmATw1+K9KRQjQERjvTumQW0nPEzvF6L/Z6nronJ3oUOFUfPcJEUQouq2+1" crossorigin="anonymou">
  <link href="https://fonts.googleapis.com/css?family=Playfair+Display:700,900" rel="stylesheet">
  <link rel="stylesheet" href="CSS/style.css">
  <title>Login/Registration page</title>
</head>

<body>
```

o Evidence of the following being used in their code base:

```

1
2 $(document).ready(function() {
3
4     $(document).on('click', '.usr', function() {
5
6         var id = $(this).attr('data-id').trim();
7
8         Swal.fire({
9             title: 'Are you sure you want to delete record with id:' + id + '?',
10            text: "You won't be able to revert this!",
11            type: 'warning',
12            showCancelButton: true,
13            confirmButtonColor: '#3085d6',
14            cancelButtonColor: '#d33',
15            confirmButtonText: 'Yes, delete it!'
16        }).then((result) => {
17            if (result.value) {
18
19                $.ajax({
20                    type: 'GET',
21                    url: 'delete_user.php',
22                    data: {
23                        id: id
24                    },
25                    success: function(result) {
26                        if (result.resultOK == true) {
27                            //document.location.href = "?page=car"; //First option of removing element by refreshing all the page
28                            $("#record_" + id).remove(); //Second option of removing element by removing an element with particular id
29                            return false;
30                        } else {
31
32                        }
33                    }
34                });
35            }
36        })
37    });
38
39 });
40
41 });

```

Ajax

```

<?php

//initializing variables

$username = "";
$email = "";

$errors = array();

// Connect to the Database

$db = mysqli_connect('localhost', 'root', '', 'rental_project','33065') or die ("Could not connect to the database");

//Register users
if (isset($_POST['Reg_user'])) {
//Receive all input values from the form
$username = mysqli_real_escape_string($db, $_POST['username']);
$email = mysqli_real_escape_string($db, $_POST['email']);
$password = mysqli_real_escape_string($db, $_POST['password']);
$password2 = mysqli_real_escape_string($db, $_POST['password2']);

//Form validation

if(empty($username)) {array_push($errors, "username is required"); }
if(empty($email)) {array_push($errors, "email is required"); }
if(empty($password)) {array_push($errors, "password is required"); }
if($password != $password2) {
| array_push($errors, "the two passwords do not match");
}

// Check db for existing user with same username

$user_check_query = "SELECT * FROM user where Username = '$username' or Email = '$email' LIMIT 1";

$results = mysqli_query($db, $user_check_query);
$user = mysqli_fetch_assoc($results);

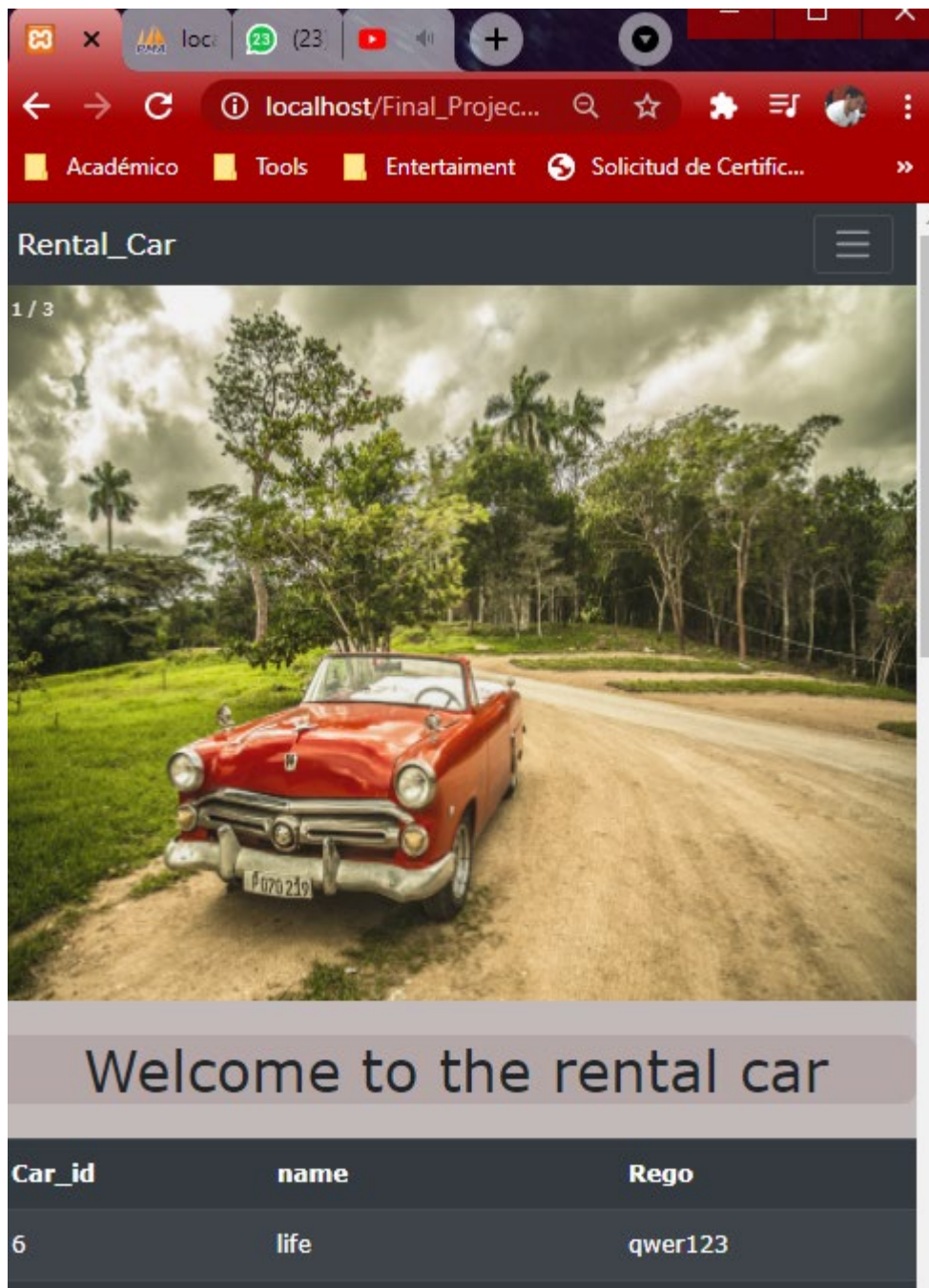
if($user) {

```

DB integration


- Web app design: the design is –

- o professional
- o user friendly
- o easy to use
- o responsive



Functionality

- Basic functions for all users are implemented and working correctly:
 - o Registration Page (




Car Rental

Register new account

Register

Already an user? [Login Here](#)


o Login page extended with Google Captcha.



Car Rental

Sing into your account

Login

☐ I'm not a robot  [Privacy](#) - [Terms](#)

Not a user? [Register Here](#)

o View and Update personal profile

Rental_Car

Home

Profile

Cars to rent

Administration

Logout

Welcome sa (Administrator)

Update User

Please fill the form

Username

Password

Email

Update

Logout Page

o View available cars page

Welcome to the rental car		
Car_id	name	Rego
6	life	qwer123
7	honda CI	hrty987
8	lamborghini	qwf987
9	H2	ces123
10	cali	213gtfd
11	Audi	fer123

o Logical validation for all the forms

Contact Us

First name

Last name



Please fill out this field.

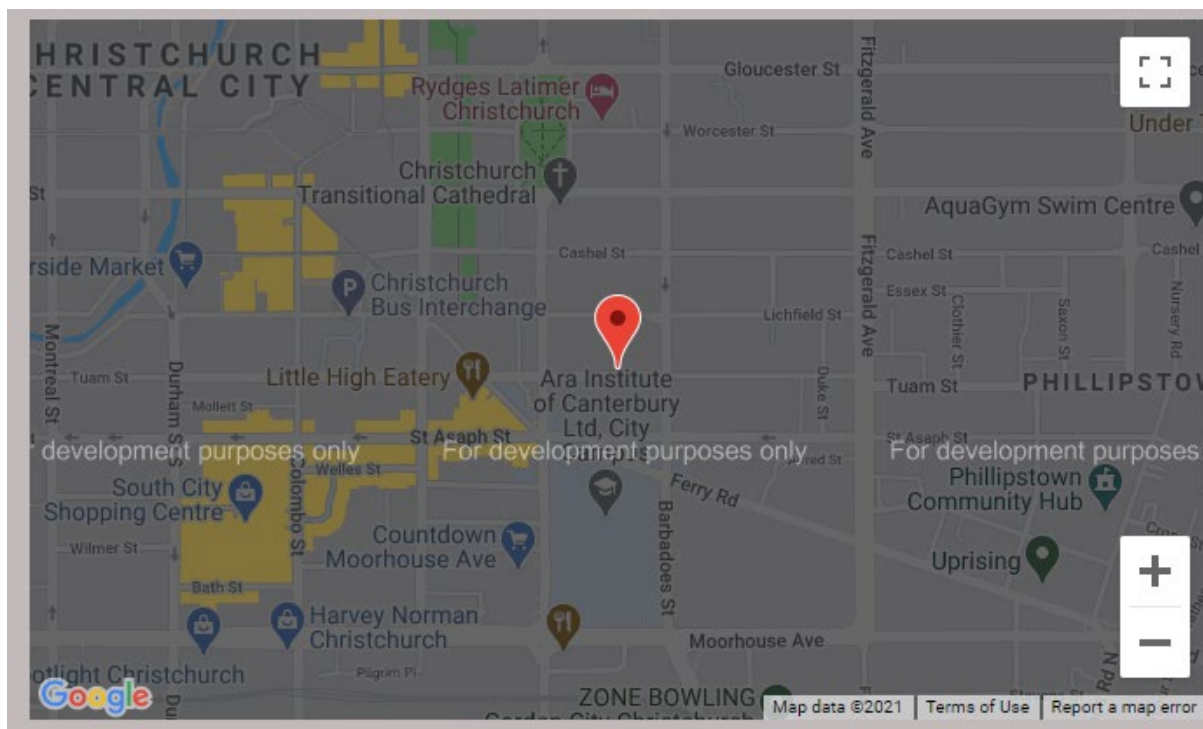
Email

Please enquiry your request

Required example textarea

Enquiry

o Google Map page with location marker



o Correct redirection to the page with session control

Welcome to the administration module

Please select an option:

Registered users

Edit/update user

Add new user

Add new car

Edit car information

o Edit feature fully done

Edit/Update Users				
User_id	Email	Username	Role	Action
1	sas1@gmail.com	sa	Admin	<button>Edit</button> <button>Delete</button>
142	en@hete.com	ent	Admin	<button>Edit</button> <button>Delete</button>
179	new@user.com	news	Customer	<button>Edit</button> <button>Delete</button>
180	concesar12@hotmail.com	cesar-guerrero	Customer	<button>Edit</button> <button>Delete</button>
<button>Go back</button>				

o Delete feature fully done

Edit/Update Users				
User_id	Email			Action
1	sas1@gmail.com			<button>Edit</button> <button>Delete</button>
142	en@hete.com			<button>Edit</button> <button>Delete</button>
179	new@user.com			<button>Edit</button> <button>Delete</button>
180	concesar12@hotmail.com			<button>Edit</button> <button>Delete</button>

!

Are you sure you want to delete record with id:142?

You won't be able to revert this!

Yes, delete it! Cancel

o Add User/Admin feature fully done

Add new User

Please fill the form

Username

Password

Email

Role:

[Add user](#)

o Add new car feature fully done(

Add new Car

Please fill the form

Available ☐

[Add car](#)

[Go back](#)

o Modify car feature fully done

Rental_Car

Home

Profile

Cars to rent

Administration

Logout

Welcome sa (Administrator)

Delete/Update Cars

Car_id	Name	Rego	Available	Action	
1	mazda	asdf1234	no	Edit	Delete
6	life	qwer123	yes	Edit	Delete
7	hondare	hrt987	yes	Edit	Delete
10	cali	213gtfd	yes	Edit	Delete
11	Audi	fer123	yes	Edit	Delete

Go back

o Remove a car feature fully done

Action	
Edit	Delete
Edit	Delete
Edit	Delete
Edit	Delete
Edit	Delete

o Accept/reject feature fully done

Rental_Car	Home	Profile	Cars to rent	Administration	Logout	Welcome sa (Administrator)
Car approval						
Car_id	Car name	Rego	Username	User_id	Action	
1	mazda	asdf1234	sa	1	Approve	Reject
Go back						

o Rent a car feature fully done

Rental_Car	Home	Profile	Cars to rent	Administration	Logout	We
Rental Site						
Car_id	Name	Rego	Action			
6	life	qwer123	Rent Car			
7	hondare	hrty987	Rent Car			
10	cali	213gtfd	Rent Car			
11	Audi	fer123	Rent Car			

o Enquiry or Feedback fully done

Contact Us

First name

Last name

Email

Please enquiry your request

Required example textarea

Enquiry

o All information saving and retrieval to/from database are done in correct manner

	id_car	name	rego	available
<input type="checkbox"/> Edit Copy Delete	1	mazda	asdf1234	0
<input type="checkbox"/> Edit Copy Delete	6	life	qwer123	1
<input type="checkbox"/> Edit Copy Delete	7	hondare	hrty987	1
<input type="checkbox"/> Edit Copy Delete	10	cali	213gtfd	1
<input type="checkbox"/> Edit Copy Delete	11	Audi	fer123	1

☐ Check all With selected: Edit Copy Delete Export

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

Query results operations

Print Copy to clipboard Export Display chart Create view

Conclusion

This project was a great approach on how a web application must be created, the way to learn HTML, CSS, JS, Bootstrap and all the attributes and elements that involve this web development world, was completely valuable. I feel encourage to carry on the development

field and I am willing to learn new technologies such as: Angular, React, Vanilla JS and many other.

Other Conclusion is highlight the importance of the databases and the php files in the server side in order to make a web application work properly

References.

1. Otto, M. J. T. (n.d.). *Breakpoints*. Bootstrap. Retrieved March 5, 2021, from <https://getbootstrap.com/docs/5.0/layout/breakpoints/>
2. Kosev, K. (2017, October 26). *The Best Way to Implement a “Wrapper” in CSS*. CSS-Tricks. <https://css-tricks.com/best-way-implement-wrapper-css/>
3. *W3Schools Online Web Tutorials*. (n.d.). W3schools. Retrieved March 5, 2021, from <https://www.w3schools.com/>
4. Antonio Sarosi. (2021, March 13). *Cómo hacer un Ataque CSRF*. YouTube. <https://www.youtube.com/watch?v=CXSE89JGnek>