

# Personal Portfolio – Sprint 2

IAB299

IT Project Design and Development

Group 92

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<https://github.com/taylorbindon/IFB299.git>

## Table of Contents

<b>Artefact 1</b> .....	2
Client/Developer Meeting .....	2
<b>Artefact 2</b> .....	2
User Interface Designs – Second Iteration.....	2
<b>Artefact 3</b> .....	6
HTML 2 <sup>nd</sup> Iteration – Employee Dashboard Home Page.....	6
<b>Artefact 4</b> .....	8
User Acceptance Testing.....	8

## Artefact 1

### Client/Developer Meeting

Regular meetings between the developers and the client ensures that the developers are adhering to schedule, that any issues are swiftly resolved, and allows for easy communication of changes that need implementing.

On the 21<sup>st</sup> September 2018 I, the client, met with Kirsten, the developer, to discuss the progress of the implementation of the user interface designs into the webpages and new changes to be made to the designs. The meeting notes for this instance are as follows;

- Kirsten showcased the current webpages with the user interface designs fully applied
- She demonstrated the page navigation, showing how each page is linked to each other
- I approved the current version, however, I asked if they would be able to add in some additional design features, as the pages felt somewhat repetitive
- Kirsten and I brainstormed a number of options and came to an agreed upon second iteration of the design
  - This design was completed for each page graphically and sent to the development team for implementation

Client and developer meetings are significant in ensuring that a project runs as smoothly as possible, contributing to every aspect of the scrum. If meetings are not done with consistent frequency and successful communication, the project would fail. A good client and developer relationship also allows for the client to know that they can rely on the development team again for another project.

## Artefact 2

### User Interface Designs – Second Iteration

The second iteration of the user interface designs were created as a result of the client/developer meeting held on the 21<sup>st</sup> of September. These designs total to the 10 main pages utilised in the CRC website, and comprise of the original design with the new changes to be implemented by the development team.

A second iteration of the user interface design has a large contribution to the overall project, as it clearly showcases the communication skills and well managed relationship between the client and the developers. It also contributes by allowing the client to have a final say on the aesthetic choices and user experience of the website to ensure it meets the brief and the needs.

A copy of the designs can be found as follows.

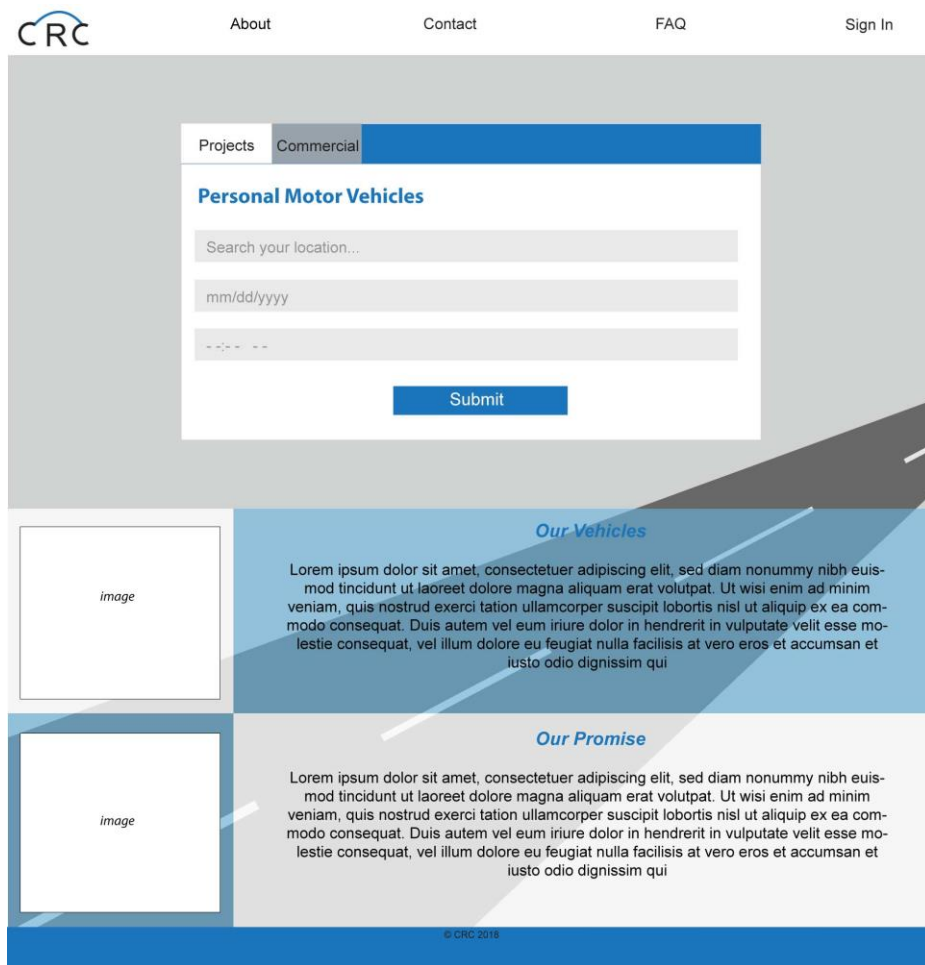


Figure 1: Home Page

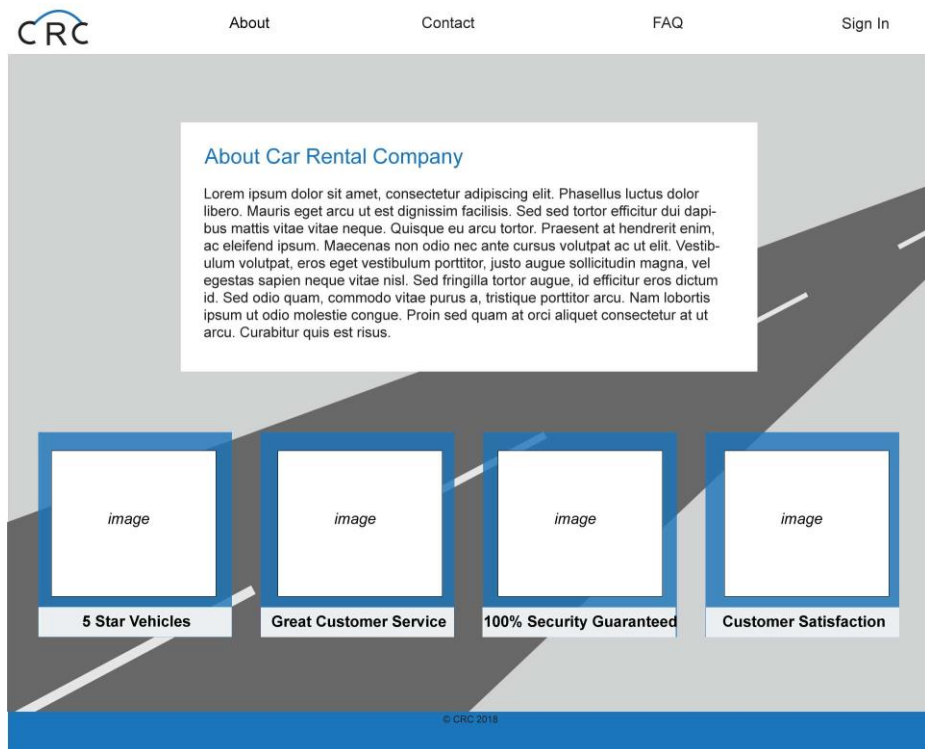


Figure 2: About Page

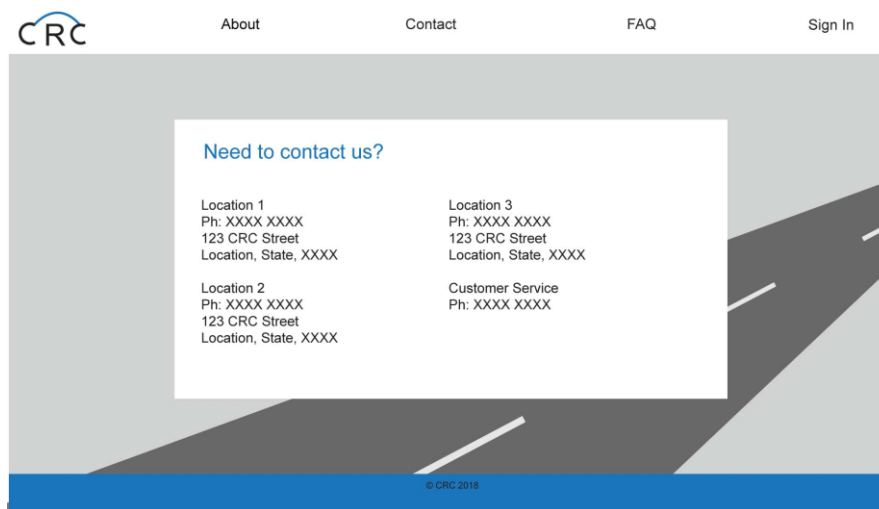


Figure 3: Contact Page

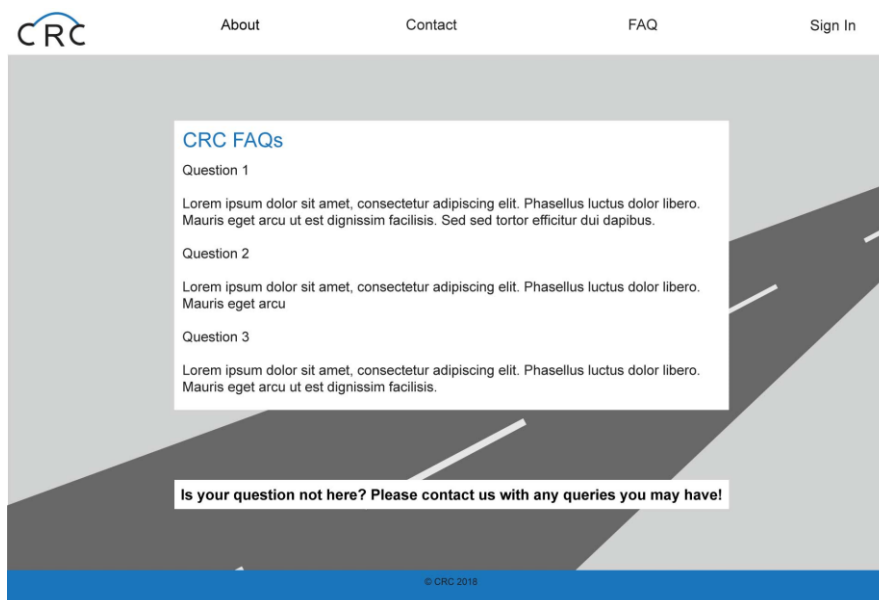


Figure 4: FAQ Page

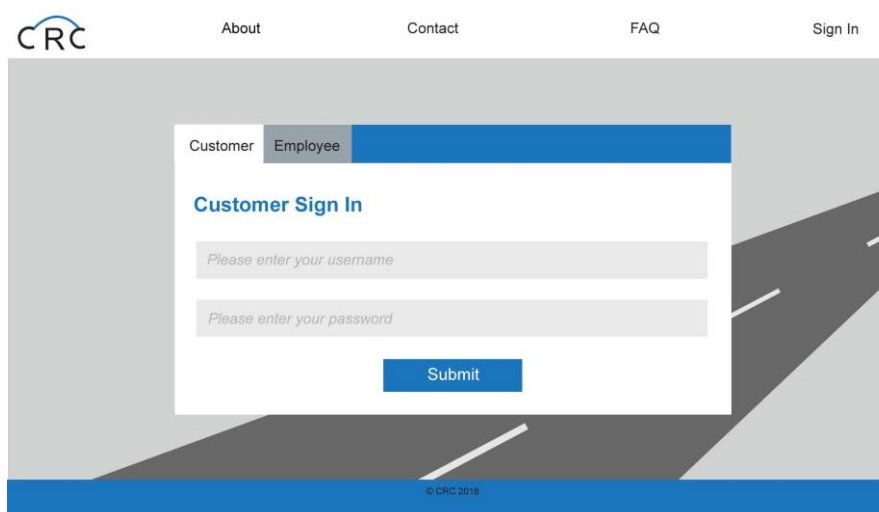


Figure 5: Sign In Page

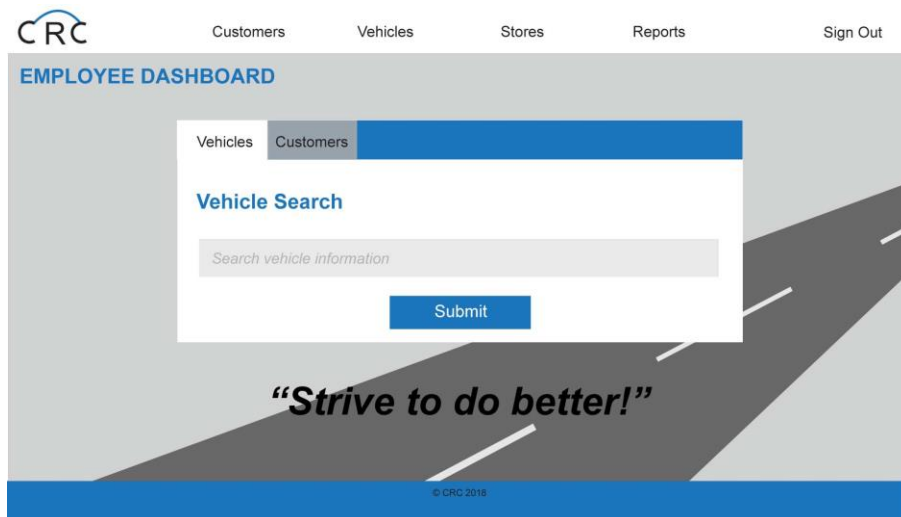


Figure 6: Employee Home Page

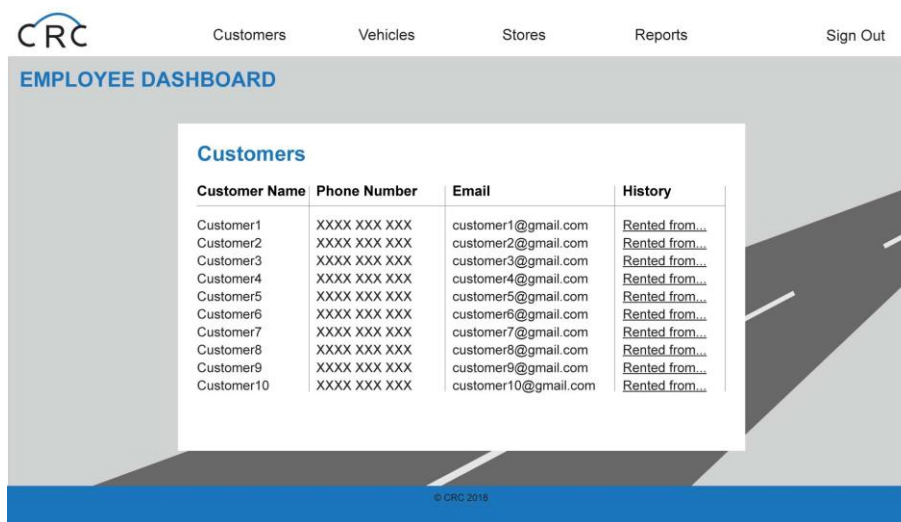


Figure 7: Customers Page

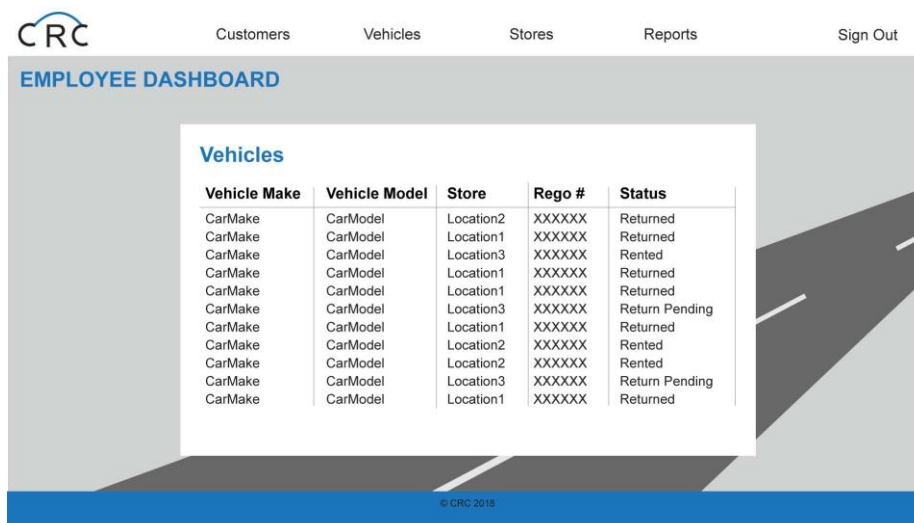


Figure 8: Vehicles Page

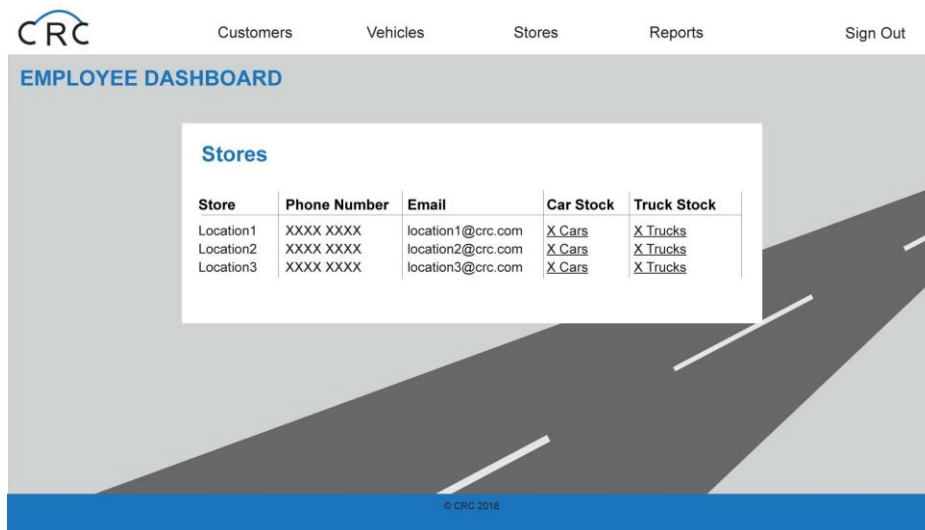


Figure 9: Stores Page

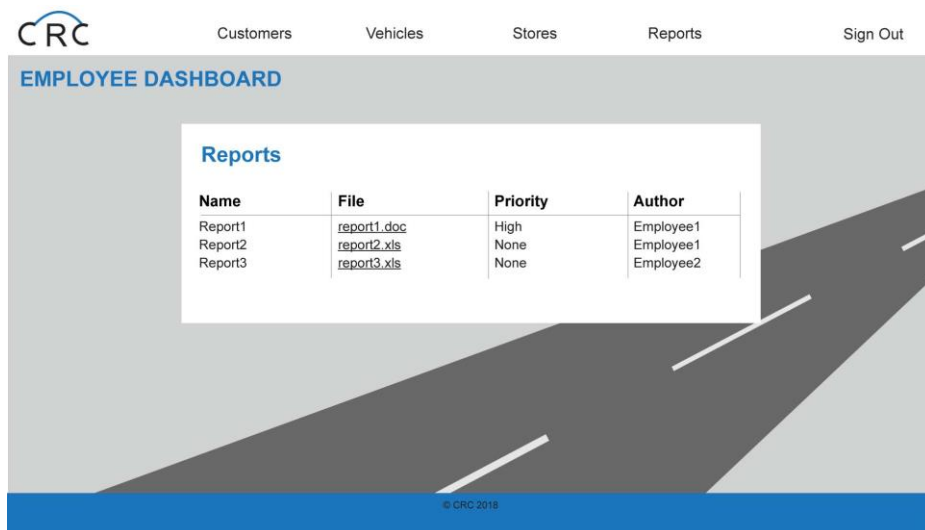


Figure 10: Reports Page

## Artefact 3

### HTML 2<sup>nd</sup> Iteration – Employee Dashboard Home Page

The second iteration of the HTML for the employee dashboard home page stemmed from the revised user interface designs. The iterating of the HTML pages was divided between three team members, Kirsten, Wenona, and myself, as TJ was continuing to work on the implementation of Django and Jeremy had not attended classes or meetings at this point to have the work distributed to him. Wenona continued the iteration of the HTML page from her sprint 1 portfolio, the customer home page, and Kirsten iterated the remaining 8 HTML pages.

Implementing a second iteration of the employee dashboard HTML allows for consistency throughout the entire website, as well as allotting the work load between multiple team members to ensure even distribution of work. One of the major changes to the employee dashboard HTML was reworking the

code to be consistent with the tags and id's used in every other HTML page. Another main factor was the implementation of functions and variables to link the users' inputs to the database, and the database's information to the output. Lastly, minor elements were added and changed, such as a tagline and footer, as well as the styling of them. The finished HTML page was sent to Kirsten for her to confirm its completion and that it matches the other pages for final implementation, which she then uploaded to the GitHub directory.

```
<h1>Employee Dashboard</h1>
<main class = "main_home">
  <div class = "tab">
    <button class = "tablinks" onclick="Options(event,'Vehicles')" id="default">Vehicles</button>
    <button class = "tablinks" onclick="Options(event,'Customers')">Customers</button>
  </div>

  <div id = "Vehicles" class = "tabcontent">
    <h3>Vehicle Search</h3>
    <input class = "whole_length_form" type = "search" name = "Vehicle_entered" placeholder="Search Vehicle Information....">
    <button class = "submit_search" type = "submit">Submit</button>
  </div>

  <div id = "Customers" class = "tabcontent">
    <h3>Customer Search</h3>
    <input class = "whole_length_form" type = "search" name="customer_search" placeholder="Search Customer Information....">
    <button class = "submit_search" type = "submit">Submit</button>
  </div>
</main>
<div class = "big_container">
  <!-- <div class = "little_containers" style = "background-color:rgba(255,255,255,0)">
    <img class = "four_images" src = "business_person.png">
  </div> -->
  <div class = "pad"></div>
  <div class = "quote"><em>"Strive to do better!"</em> </div>
</div>
<footer>
<p> &copy; 2018 CRC </p>
</footer>
<script>
  function Options(evt, customer_employee)
  {
    var i, tabcontent, tablinks;
    tabcontent = document.getElementsByClassName("tabcontent");
    for (i = 0; i < tabcontent.length; i++)
    {
      tabcontent[i].style.display = "none";
    }
    tablinks = document.getElementsByClassName("tablinks");
    for (i = 0; i < tablinks.length; i++)
    {
      tablinks[i].className = tablinks[i].className.replace(" active", "");
    }
    document.getElementById(customer_employee).style.display = "block";
    evt.currentTarget.className += " active";
  }
  document.getElementById("default").click();
</script>
</body>
</html>
```

Figure 11: HTML 2<sup>nd</sup> iteration

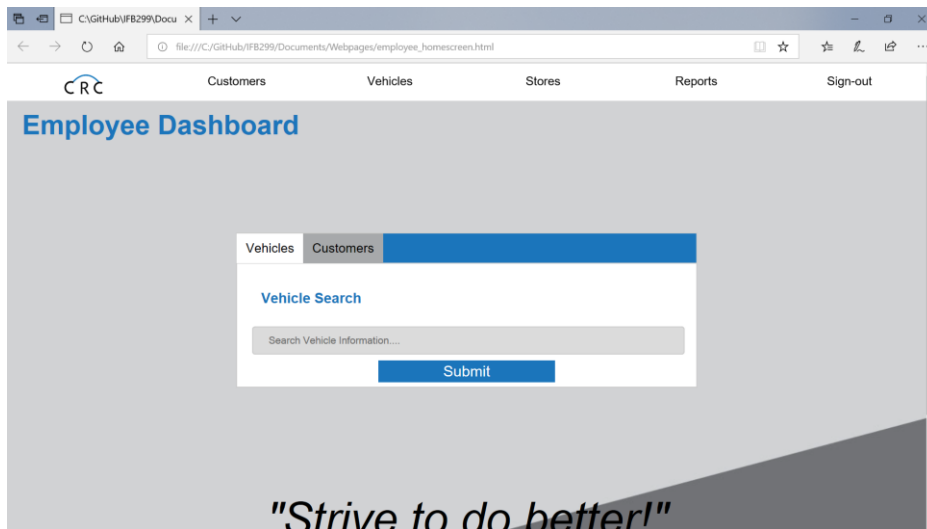


Figure 12: Employee Home Page - HTML

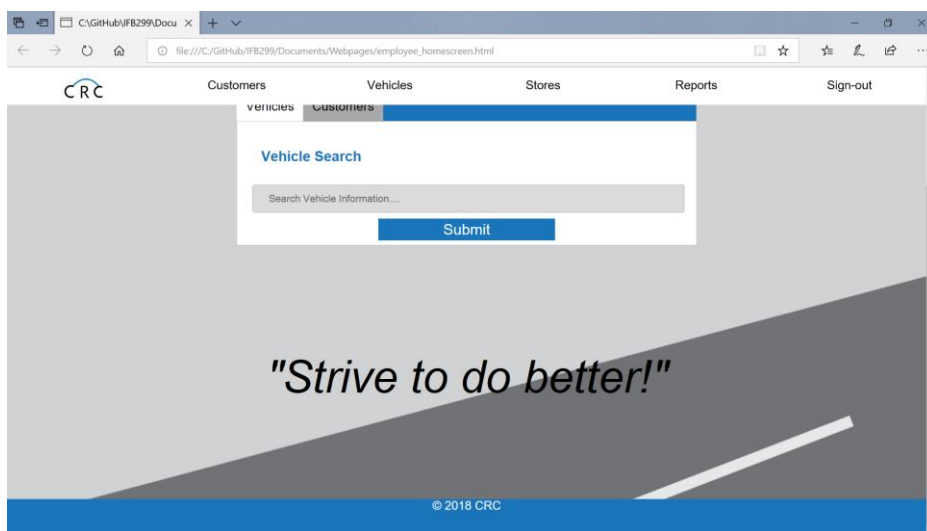


Figure 13: Employee Home Page - HTML

## Artefact 4

### User Acceptance Testing

User acceptance tests were conducted utilising the user stories and acceptance criteria submitted within the sprint 1 release, as a way to check and ensure that each story was correct and met the criteria set by the client and by the brief. The tests were conducted on each completed user story with the priority of 'must complete'.

The main contribution running user acceptance tests on the user stories is the assurance that each and every 'must complete' story, that was completed for the final demonstrated, was executed and correct according to the brief. Another main aspect was ensuring that the development team did not miss anything when creating the website. The following tables depicts the tests' conducted.



User Story (Purpose) S01	As an employee, I want to be able to access a landing page, so that I can login to a system and perform my employee duties.
Acceptance Criteria	<p>On the Car Rental Company (CRC) website, an 'Employee Login' link will be displayed. Clicking the link will allow employees to enter their employee ID and password, in order to access the database and client information.</p> <p>Upon logging in, the employee will be presented with a dashboard of information that can be filtered and drilled down into to retrieve more specific information when required. This will be achieved through the use of tabs with titles such as reports and vehicle information. A search box will also be included for the employee to search the database at large.</p> <p>This login will also serve as a way to discern between employees, managers, and board members. This will in turn dictate what a person will be displayed upon logging in, based on their role at CRC.</p>
Preconditions	<p>Employee has valid log in information</p> <p>Employee is not already logged in</p>
Input	<p>Correct employee ID</p> <p>Correct password</p>
Process	<p>Navigate to sign in page</p> <p>Select employee</p> <p>Enter employee ID</p> <p>Enter password</p> <p>Click 'Submit' button</p>
Output	Employee logs into the Employee Dashboard
Test Result	Successfully logged into the Employee Dashboard

Table 1: UAT Story 01

User Story (Purpose) S02	As an employee, I want to view the history of customers rentals and returns, so that I can make vehicle recommendations.
Acceptance Criteria	<p>Upon successfully logging in, the employee will be able to search the customer's name and find their profile/previous bookings with information of their previous vehicles' type, model, city retrieved from, and month booked.</p> <p>This will primarily be used by employees at the service desk where customers are picking up their car, so that possible upgrades/recommendations can be made, based on what cars are available at the store. This will also require a search of all vehicles that can be filtered by type and model, as city will be the location of the store the customer is in, and month will be irrelevant due to the fact that the possible upgrade/recommendation must be available at the store at the time that the customer is there. The database will store the customer information, car information, store information and time.</p>
Preconditions	<p>Employee is successfully logged in</p> <p>Customer information is within the database, they are a returning customer</p>
Input	Correct customer information
Process	<p>Navigate to Employee Dashboard</p> <p>Select Customers tab of search bar</p> <p>Enter customer information</p> <p>Click 'Submit' button</p> <p>View returned information</p>
Output	Customer name, contact information, and booking history
Test Result	Successfully returned customer information from search

Table 2: UAT Story 02

User Story (Purpose) S03	As a board member, I want to view detailed reports, so that I can make decisions regarding future car purchases.
Acceptance Criteria	<p>After a board member has successfully logged in they will be able to select a 'Reports' tab that will direct them to a data visualisation tool that they can filter and customise.</p> <p>The tool will have drop down boxes with choices of year, month, location, and popular vehicles with a search button to quickly create a new search. There will also be a generate report button, which when pressed will submit a database query based on the drop down box fields, and it will return a report containing the desired information. The report will be presented on the web page in a table/chart format and will be downloadable as a .CSV file.</p>
Preconditions	<p>Board member is successfully logged in with a board member sign in</p> <p>At least one report is uploaded to the Reports page</p>
Input	<p>Correct board member ID</p> <p>Correct board member password</p>
Process	<p>Navigate to Reports page</p> <p>Select report to download</p> <p>Download report</p> <p>Open and view report</p>
Output	Report of choice downloaded and opened
Test Result	Successfully downloaded and opened one of the reports from the reports page

Table 3: UAT Story 03

User Story (Purpose) S04	As a customer, I want to be able to view which vehicles are available, so that I can reserve a vehicle with my preferences considered.
Acceptance Criteria	<p>The CRC web page will contain a calendar icon/field, to select dates manually, and a location search bar. Customers can choose to enter one or both entry fields to create a search. The customer can navigate the calendar to their desired dates and select a start and end date.</p> <p>Customers can make a search based on a specific location. In the location search bar, the word 'location' will appear in grey and disappear when typing begins. Depending on the search, customers will select the exact location from a specified list of locations. The field will be predictive based on what the customer enters. A future option may allow the customer to choose their nearest store, based on their current location.</p> <p>After the search, the customer will be directed to a list of vehicles available. A customer will be able to reserve a vehicle by clicking on the vehicle they would like, then clicking 'Book Now' on the following page. The customer will then be prompted to enter their details and click the 'Confirm' button to submit their reservation request. The reservation will be confirmed via email.</p>
Preconditions	None
Input	Location and or date of car hire
Process	<p>Navigate to customer home page</p> <p>Enter search term into form</p> <p>Click 'submit' button</p> <p>Review returned information</p>
Output	Relevant information regarding the customer's query
Test Result	Successfully returned information when tested with a location and date query

Table 4: UAT Story 04

User Story (Purpose) S07	As an employee, I want to be able to search for a customer, so that I can decide whether or not I need to create a new customer entry.
Acceptance Criteria	<p>The employee dashboard will contain a search field. An employee can enter either a customer's name, address, phone number, or DOB in the search field. This will search the entire database and display the customers matching the criteria. If the entry is invalid, either the information entered was incorrect or there are no entries for that customer, meaning they have not previously booked with CRC.</p> <p>To create an account for a customer, the employee then selects the 'new customer' button which is present on every page (including the homepage). The employee then enters the customer's information into each relevant search field. The information recorded includes, first name, last name, address, DOB and phone number. Once the information is entered and the employee selects the 'complete' button at the bottom of the last entry field, a customer ID is generated, and that customer is now added to the CRC database.</p>
Preconditions	Employee is successfully logged in with a valid employee ID and password
Input	<p>Correct employee ID</p> <p>Correct employee password</p> <p>A combination or singular aspect of either a customer; name, address, phone number, or DOB</p>
Process	<p>Navigate to the employee dashboard customer page</p> <p>Enter customer search term</p> <p>Click 'submit' button</p> <p>Review returned information</p>
Output	Customer/s with information matching the search term/s entered
Test Result	Successfully retrieved customer's information via the customer search terms entered.

Table 5: UAT Story 07