**Release and Sprint Plans**

**Team Number 4**

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Version: 2

Date: 1/10/2018

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Release Plan

# Release 1

Delivery date: 23/10/2018 Total Story Points: 32

This initial first release will provide the user with all the fundamental features that will make our Car Rental application a success. A fully designed front-end UI design will be implemented also allows for different methods of presenting searched data. The existing database will be overhauled and redone, the user will be able to search for specific cars they want for rent with further searching being able to be done with filters. Finally, user authentication will be added so users will be able to login and will add a bit of security.

## Visual Presentation

The visual presentation feature is one of the most important features of this application as it should allow for the users, employees, owners to see all the information and should also be implemented in such a way where it is easy to use and navigate.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| US01 | Home Page | 4 |
| US21 | Search Results Page | 2 |
| US18 | Car Information Page | 1 |
| US11 | Display Data | 1 |
| US20 | Reporting Page | 1 |
| US19 | Customer Profile Page | 2 |
| US25 | Login/Register Page | 1 |
| US26 | Rent Page | 1 |
|  | Story Point Sub-Total: | **15** |

## Searching

The searching feature will allow the user to search for cars by type, price, transmission type, and also implement a advanced filtering feature that will allow the user of the application to have there search results formatted in certain ways for easier use.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| US05 | Specific Search | 1 |
| US06 | Search Filter/Sort | 1 |
| US13 | Search Results | 2 |
| US04 | Vehicle Availability | 2 |
| US28 | Report Car History | 2 |
| US29 | Reserving a Car | 2 |
|  | Story Point Sub-Total: | **10** |

## 

## User Authentication

The user authentication feature is a feature that must be implemented into the app. This should allow users to login and have different levels of account with a customer account, employee account, and finally a owner account.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| US02 | User Authentication | 2 |
| US03 | Display Without Login | 1 |
| US27 | Admin Portal | 2 |
|  | Story Point Sub-Total: | **5** |

## 

## Database Re-Implementation

The Database Re-Implementation feature will grab all the existing data and put that all into a new more reliable Database. The web application will search within this database and also grab information from it to display to the user.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| US09 | Improved Database | 2 |
|  | Story Point Sub-Total: | **2** |

# Release 2

Delivery date: To Be Announced Total Story Points: 15

This release works towards revealing more information for both users and the client, with Car recommendations from the database as well as reporting back to the client about how the company is doing. Some App responsiveness will also be worked on to provide a better user experience.

## Car Recommendations

The Car Recommendations feature will allow the users to get a list of cars that matches criteria they enter into the search field so it is easier for them to find their ideal car. As well as this the application will also show the top rented cars and this will change on a weekly basis.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| US07 | Car Rental Recommendations | 2 |
| US14 | Rental Popularity | 2 |
|  | Story Point Sub-Total: | **4** |

## Information Reporting

Information will be sorted and reported back to the client to see where the company is standing for overall monthly performance. Essential to plan ahead when making changes.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| US08 | Monthly Rental Information | 2 |
| US15 | Monthly Report Download | 1 |
|  | Story Point Sub-Total: | **3** |

## App Responsiveness

A more responsive app will lead to customers and employees with a better response towards using the app, this will make overall use easier for everyone.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| US12 | App Responsiveness | 8 |
|  | Story Point Sub-Total: | **8** |

# 

# Release 3

Delivery date: To Be Announced Total Story Points:15

This Release will bring in final touches for the user that will give more communication channels through added contact details, Customer reviews and a live chat to help customers right then and there. We will also add some nice touches to improve overall experience with a trip planner to help make customers overall experience better and a way to view all previous history with us.

## Customer Aid

Customers responses are critical to the business and will guide the company towards any improvements they could implement.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| US16 | Contact Details | 1 |
| US22 | Customer Reviews | 4 |
| US17 | Live Chat | 4 |
|  | Story Point Sub-Total: | 9 |

## User Service

With helpful tools for customers this will leave a positive view of the web app when planning for trips or when viewing any trips, they have done.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| US23 | Trip Planner | 4 |
| US24 | View User History | 2 |
|  | Story Point Sub-Total: | 6 |

# Delivery Schedule

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | Week 13 |
| Sprint 1 | | | | Sprint 2 | | | |
| Release 1 | | | | Release 1 | | | |

# 

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
| Sprint 3 | | | | Sprint 4 | | | |
| Release 2 | | | | Release 3 | | | |

## Estimated Velocity: 12

Sprint Plan

# Sprint 1

Total Story Points: 13 Total Hours: 50

## Current Velocity: 12.5 Actual Hours: 55.5

## Story 01: Home Page

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T01 | Discuss overall UI styling | 1 | 1 |
| T02 | Sketch plan for UI | 2 | 1 |
| T03 | Build prototypes of sketched UI | 4 | 2.5 |
| T04 | Pseudocode of UI | 1 | 1 |
| T05 | Write code for UI based on built pseudocode | 3 | 4 |
| T06 | Create navigation pane / Create Search box - Minor Functionality | 2 | 1.5 |
| T07 | Confirm completion through Acceptance Criteria | 1 | 1 |
|  | Story Points: 4 Total Hours: | 14 | 12 |

## Story 09: Improved Database

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T08 | Analyse old database for redundant data | 1 | 1 |
| T09 | Develop database model | 2 | 2 |
| T10 | Pseudocode SQL database based on model | 1 | 1 |
| T11 | Set up mySQl database based on model and pseudocode | 2 | 2 |
| T12 | Collect data across all locations | 0.5 | 0.5 |
| T13 | Move data from old database to SQL database | 2 | 2 |
| T14 | Add Security and authentication for access | 1 | 2 |
| T15 | Add minor search functionality for testing | 0.5 | 0.5 |
| T16 | Confirm completion through Acceptance Criteria | 1 | 1 |
|  | Story Points: 2 Total Hours: | 10 | 12.5 |

## Story 18: Car Information Page

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T17 | Discuss Design of this page | 1 | 1 |
| T18 | Sketch plan for UI using elements from home page | 1 | 1 |
| T19 | Build prototype of sketched UI | 1 | 1.5 |
| T20 | Pseudocode of UI | 1 | 1 |
| T21 | Write code for UI based on built pseudocode | 1 | 3 |
| T22 | Confirm completion through Acceptance Criteria | 1 | 1 |
|  | Story Points: 1 Total Hours: | 6 | 8.5 |

## Story 20: Reporting Page

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T23 | Discuss Design of this page | 1 | 1 |
| T24 | Sketch plan for UI using elements from home page | 1 | 1 |
| T25 | Build prototype of sketched UI | 1 | 1.5 |
| T26 | Pseudocode of UI | 1 | 1 |
| T27 | Write code for UI based on built pseudocode | 1 | 2.5 |
| T28 | Confirm completion through Acceptance Criteria | 1 | 1 |
|  | Story Points: 1 Total Hours: | 6 | 8 |

## Story 19: Customer Profile Page

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T29 | Discuss Design of this page | 1 | 1 |
| T30 | sketch plan for UI using elements from home page | 1 | 1 |
| T31 | Build prototype of sketched UI | 1 | 1 |
| T32 | Pseudocode of UI styling | 1 | 1 |
| T33 | Write code for UI based on built pseudocode | 1 | 2 |
| T34 | Code - Customer Information from DB (inc. Rent History) | 1 | 2 |
| T35 | Confirm completion through Acceptance Criteria | 1 | 1 |
|  | Story Points: 2 Total Hours: | 6 | 9 |

## Story 21: Search Results Page

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T36 | Discuss Design of this page | 1 | 1 |
| T37 | sketch plan for UI using elements from home page | 1 | 0.5 |
| T38 | Build prototype of sketched UI | 1 | 1 |
| T39 | Pseudocode of UI styling | 1 | 0.5 |
| T40 | Write code for UI based on built pseudocode | 1 | 1 |
| T41 | Code – Search results with example data | 2 | 1 |
| T42 | Confirm completion through Acceptance Criteria | 2 | 0.5 |
|  | Story Points: 2 Total Hours: | 8 | 5.5 |

# Sprint 2

Total Story Points: 19 Total Hours: 94.3

## Current Velocity: 16Actual Hours: 101.7

## Story 05: Specific Search

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T01 | Develop example Searches and their responses for testing | 0.5 | 0.5 |
| T02 | Identify Tables that searches will look in | 0.1 | 0.1 |
| T03 | Code mySQL scripts to test search responses from example searches | 1 | 1 |
| T04 | Adapt mySQL scripts to python scripts that use Django’s query system | 0.5 | 0.5 |
| T05 | Add Django query scripts to view for Search Results Page | 1 | 1 |
| T06 | Verify Responses from example searches | 0.5 | 0.5 |
| T07 | Confirm completion through Acceptance Criteria | 1 | 1 |
|  | Story Points: 1 Total Hours: | 4.6 | 4.6 |

## Story 06: Search Filter/Sort

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T08 | Develop example Searches and their responses for testing | 0.5 | 0.5 |
| T09 | Identify Tables that searches will look in | 0.1 | 0.1 |
| T10 | Code mySQL scripts to test search responses from example searches | 1 | 1 |
| T11 | Adapt mySQL scripts to python scripts that use Django’s query system | 0.5 | 0.5 |
| T12 | Add Django query scripts to view for Search Results Page | 1 | 1 |
| T13 | Verify Responses from example searches | 0.5 | 0.5 |
| T14 | Confirm completion through Acceptance Criteria | 1 | 1 |
|  | Story Points: 1 Total Hours: | 4.6 | 4.6 |

## Story 13: Search Results

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T15 | Identify how search results should be laid out with client | 1 | 1 |
| T16 | Add vehicle model pictures to the server to show in the results | 3 | 2 |
| T17 | Add vehicle information to the search results | 1 | 1 |
| T18 | Verify correct information is being user for each car in test searches | 1 | 1 |
| T19 | Implement feature to Django server for testing | 1 | 2 |
| T20 | Confirm completion through acceptance criteria | 1 | 1 |
|  | Story Points: 2 Total Hours: | 8 | 8 |

## 

## Story 11: Display Data

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T21 | Identify which data needs to be displayed and in which way with client | 1 | 1 |
| T22 | Create graphs from the database to test that the data is being displayed correctly | 1 | 1 |
| T23 | Build weekly report which can change between weeks | 2 | 3 |
| T24 | Modify Report Page to adapt to changing of weeks | 1 | 2 |
| T25 | Build Monthly report which can change between months | 1 | 1 |
| T26 | Modify Report Page to adapt to changing of months | 1 | 1 |
| T27 | Confirm completion through acceptance criteria | 1 | 1 |
|  | Story Points: 2 Total Hours: | 10 | 10 |

## Story 04: Vehicle Availability

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T28 | Identify with client how they want vehicles to be shown to the user | 1 | 1 |
| T29 | Modify Search Results page to show example vehicle availability | 1 | 1 |
| T30 | Build filter based on current rentals and non-rentals | 4 | 3.5 |
| T31 | Implement feature into Django server to test | 1 | 1.5 |
| T32 | Confirm completion through acceptance criteria | 1 | 1 |
|  | Story Points: 2 Total Hours: | 8 | 8 |

## Story 02: User Authentication

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T33 | Add test profiles with username and passwords with both types of authentication | 0.1 | 0.1 |
| T34 | Adapt home page to have login/register fields with a redirect to the login page | 1 | 1 |
| T35 | Add cookie system to keep track of user logins | 1 | 2 |
| T36 | Test cookies, login and register system | 2 | 2 |
| T37 | Adapt Customer profile page to require user authentication | 1 | 2 |
| T38 | Adapt Reporting page to require user authentication | 1 | 1 |
| T39 | Adapt Renting button on car information page to require user authentication | 1 | 1.5 |
| T40 | Confirm completion through acceptance criteria | 1 | 1 |
|  | Story Points: 2 Total Hours: | 8.1 | 11 |

## Story 03: Display without login

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T41 | Adapt and test Home page to ensure that, regardless of being logged in or not, it will show the same information | 1 | 1 |
| T42 | Adapt and test Searching to ensure that, regardless of being logged in or not, it will show the same information | 1 | 1 |
| T43 | Adapt and test car information page to ensure that, regardless of being logged in or not, it will show the same information | 1 | 1 |
| T44 | Confirm completion through acceptance criteria | 1 | 1 |
|  | Story Points: 1 Total Hours: | 4 | 4 |

## Story 25: Login/Register page

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T45 | Discuss Design of this page | 1 | 1 |
| T46 | sketch plan for UI using elements from home page | 1 | 1 |
| T47 | Build prototype of sketched UI | 1 | 1.5 |
| T48 | Pseudocode of UI styling | 1 | 1 |
| T49 | Write code for UI based on built pseudocode | 1 | 2 |
| T50 | Code – Login/Register verification | 2 | 2 |
| T51 | Confirm completion through Acceptance Criteria | 2 | 2.5 |
|  | Story Points: 1 Total Hours: | 8 | 11 |

## Story 26: Rent Page

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T52 | Discuss Design of this page | 1 | 0.5 |
| T53 | sketch plan for UI using elements from home page | 1 | 0.5 |
| T54 | Build prototype of sketched UI | 1 | 0.5 |
| T55 | Pseudocode of UI styling | 1 | 1 |
| T56 | Write code for UI based on built pseudocode | 1 | 1.5 |
| T57 | Code – Update orders database when renting | 2 | 3 |
| T58 | Confirm completion through Acceptance Criteria | 2 | 1 |
|  | Story Points: 1 Total Hours: | 8 | 8 |

## Story 27: Admin Portal

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T59 | Code – Ability to search for specific customer | 2 | 2.5 |
| T60 | Code – Show customer when searched for | 2 | 2 |
| T61 | Code - Should be able to view more customer information | 1.5 | 1 |
| T62 | Code – Ability to search for specific vehicles | 2 | 2.5 |
| T63 | Code – Show vehicles when searched for | 2 | 2 |
| T64 | Code - Should be able to view more vehicle information | 1.5 | 1 |
| T65 | Confirm completion through Acceptance Criteria | 2 | 2 |
|  | Story Points: 2 Total Hours: | 13 | 12 |

## Story 28: Report Car History

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T66 | Code – Click car to view more information | 1 | 1 |
| T67 | Design – Show table for car history | 1 | 1.5 |
| T68 | Code - Grab Customer Name from DB and put into customer field in rental history table | 2 | 2 |
| T69 | Code - Grab Rental Date from DB and put into rented date field in rental history table | 2 | 2 |
| T70 | Code - Grab Return Date from DB and put into return date field in rental history table | 2 | 2 |
| T71 | Confirm completion through Acceptance Criteria | 2 | 2 |
|  | Story Points: 2 Total Hours: | 10 | 10.5 |

## Story 29: Reserving a Car

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T72 | Code – Verify user is logged in | 1 | 1 |
| T73 | Code – Verify fields that have been inputted by user | 1.5 | 2 |
| T74 | Code - Verify car is not currently rented | 1.5 | 2 |
| T75 | Code - Verify fields are valid | 1 | 1 |
| T76 | Code - Verify database updates accordingly | 1.5 | 2 |
| T77 | Confirm completion through Acceptance Criteria | 1.5 | 2 |
|  | Story Points: 2 Total Hours: | 8 | 10 |