IFB299 – Release and Sprint Plan

Group: BLINK 192

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Declaration

By submitting this assignment, we are aware of the University rule that a student must not act in a manner which constitutes academic dishonesty as stated and explained in the QUT Manual of Policies and Procedures. We confirm that this work represents our efforts. We have viewed the final version and declare that it does not contain plagiarized material.

Due Date: 24th August 2018

Tutor: Prakash Bhandari

Tutorial: Fridays, 10am-12pm

Team Number: 92

Table of Contents

[Release 1 3](#_Toc522871396)

[Goals 3](#_Toc522871397)

[Sprint 1 3](#_Toc522871398)

[Login 3](#_Toc522871399)

[Recording of Historical Data 3](#_Toc522871400)

[Customer Search functions 4](#_Toc522871401)

[Updating Vehicle Status 4](#_Toc522871402)

[Sprint 2 5](#_Toc522871403)

[Employee Search Function 5](#_Toc522871404)

[Payment 5](#_Toc522871405)

[Customer and Vehicle information 5](#_Toc522871406)

[Release 2 6](#_Toc522871407)

[Viewing Information 6](#_Toc522871408)

[Additional Main Page Functionality 6](#_Toc522871409)

[Delivery Schedule 7](#_Toc522871410)

[Estimated Velocity 7](#_Toc522871411)

[Sprint 1 8](#_Toc522871412)

[Story 01: Employee Login 8](#_Toc522871413)

[Story 02: Vehicle Recommendations. 8](#_Toc522871414)

[Story 03: Generate Reports 8](#_Toc522871415)

[Story 04: Customer Vehicle Search 9](#_Toc522871416)

[Story 05: Update Vehicles - Not Inspected 9](#_Toc522871417)

[Story 06: Update Vehicles - Inspected 9](#_Toc522871418)

Release Plan

# Release 1

Delivery date: 26th October 2018 Total Story Points: 32

## Goals

The goals for this release include to create a product backlog and release for the development of a new data management system for a Car Rental Company (CRC). The user stories meet the main requirements of the CRC: to be able to record the history of rental services, to browse the number of cars picked up and returned in stores, and to make car recommendations to customers. This meets the overall goal of the project: to develop an interactive data management web application for managing the company history data for supporting business intelligence. The features in this release will presented to the board of CRC.

## Sprint 1

### Login

The login feature involves one key story: employee login, which allows employees to access the database. This provides significant value to the organization as security is a major issue in society today, with many people being to access information that they shouldn’t be able to. The implementation of an employee login provides a layer of security which stops customers, or anyone without a login from accessing sensitive information about the organization.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| S01 | **Employee Login** | 2 |
|  | Story Point Sub-Total: | 2 |

## 

### Recording of Historical Data

The recording of historical data feature involves two key story points, consisting of providing customers with vehicle recommendation based on their location, and generating detailed vehicle reports for board members to analyse. This provides value to the organization as this function would significantly increase customer satisfaction by providing customers with options of cars based on their demographic(s). This would in turn, boost customers’ rental experience. The generating of vehicle reports is for higher end employees (board members, CEO’s, etc.) to determine key information about each store, their sales and vehicles.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| S02 | **Vehicle Recommendations** | 4 |
| S03 | **Generate Reports** | 4 |
|  | Story Point Sub-Total: | 8 |

### Customer Search functions

The customer search function feature involves one key story being customer vehicle search, which allows a customer to search for their desired vehicle based on dates entered, locations entered, etc. This provides value to the business. Rather than bombarding the customer with all the vehicles in stock, [at today’s date] the database can provide a list of all given vehicles that meet a customer’s specifications that will be in stock on their required day. This would result in higher customer satisfaction.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| S04 | **Customer Vehicle Search** | 2 |
|  | Story Point Sub-Total: | 2 |

### Updating Vehicle Status

The updating vehicle status feature involves two key story points, consisting of updating vehicles – not inspected, and update vehicles – inspected. This provides value to the business as it allows the organization to account for their vehicles in all stages (e.g. renting, returned, inspected and available). This enables the CRC to have an accurate record of where and what stage each of their vehicles in.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| S05 | **Update Vehicles - Not Inspected** | 2 |
| S06 | **Update Vehicles - Inspected** | 2 |
|  | Story Point Sub-Total: | 4 |

## Sprint 2

### Employee Search Function

The employee search function feature involves one key story being employee customer search, which allows employees to search the database for a customer and create new customers. This provides significant value to the organisation as it would help reduce double-ups in customer data in the database. In future, this would help employees to access the correct customer to see purchase records or update information.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| S07 | **Employee customer search** | 2 |
|  | Story Point Sub-Total: | 2 |

### Payment

The payment feature involves two key story points, consisting of online payment which allows customers to pay for their rental online, and in store payment which allows their customer to pay for their rental in one of the CRC’s stores. This would provide significant value to the organization as it would improve customer satisfaction by giving customers multiple options on how they can pay for their rental.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| S08 | **Online payment** | 4 |
| S09 | **In store payment** | 4 |
|  | Story Point Sub-Total: | 8 |

### Customer and Vehicle information

The customer and vehicle information feature involves two key story points; view vehicle reports and access customer details. These provide significant value to the business as the vehicle information allows for managers to plan for growth within the business, and the customer details allows for employees to inform the customers whether or not a vehicle has been returned properly, possibly resulting in further costs.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| S10 | **View vehicle reports** | 4 |
| S11 | **Access Customer Details** | 2 |
|  | Story Point Sub-Total: | 6 |

# Release 2

Delivery date: To be decided Total Story Points: 8

### Viewing Information

The viewing information feature involves four keys story points; view stock, update customer information, detailed specification search, and view vehicles by model. These provide value to the business by allowing customers, employees, and managers to view information that is relevant to making informed decisions and update information to ensure the database is accurate and up to date.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| S12 | **View Stock** | 2 |
| S13 | **Update Customer Information** | 1 |
| S15 | **Detailed Specifications Search** | 1 |
| S16 | **View Vehicles by Model** | 1 |
|  | Story Point Sub-Total: | 5 |

### Additional Main Page Functionality

The additional main page functionality feature comprises of two key story points; frequently asked questions and customer signup. These provide value to the business by communicating well formulated responses to frequent customer queries. This reduces the time taken by employees to respond to similar questions. Allowing customers to view previous bookings and update future bookings maximises the use of the information available to customers via the database.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| S14 | **FAQs** | 2 |
| S17 | **Customer Signup** | 1 |
|  | Story Point Sub-Total: | 3 |

# Delivery Schedule

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
| Sprint 3 | | | |  | | | |
| Release 2 & 3 | | | | | | | |

# Estimated Velocity

The team consists of five members. The assignment lasts for a 5-week period.

Estimated approximately 2 days per week per team member = 5 (5 x 1.92) = 48 days spent on the task.

Estimate that approximately 1/3 of each working day is spent doing this task = 48 x (1/3) = 16 actual days per sprint.

Assume one story point takes 1 day to complete.

Team velocity is 16 story points/sprint.

NT: if one story takes one day to complete, assume 1 day = 9 hours. 1/3 of each working day = 3.

Therefore, takes 3 hours to complete one user point.

Sprint Plan

# Sprint 1

Total Story Points: 16 Total Hours: 48

Current Velocity: 16 story points

## Story 01: Employee Login

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T01** | Create employee login | 2 |  |
| **T02** | Verify login is valid with database | 3 |  |
| **T03** | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 2 Total Hours: | 6 |  |

## Story 02: Vehicle Recommendations.

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T04** | Create database | 4 |  |
| **T05** | Create main page | 2 |  |
| **T06** | Create employee dashboard | 2 |  |
| **T07** | Create search text field | 1 |  |
| **T08** | Return results on new page | 1 |  |
| **T09** | Create filters on results page | 1 |  |
| **T10** | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 4 Total Hours: | 12 |  |

## Story 03: Generate Reports

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T11** | Create board member dashboard | 3 |  |
| **T12** | Implement dashboard functionality (Reports, charts, tables) | 4 |  |
| **T13** | Return results on new page | 2 |  |
| **T14** | Create filters on results page | 2 |  |
| **T15** | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 4 Total Hours: | 12 |  |

## Story 04: Customer Vehicle Search

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T16** | Create booking search on main page | 2 |  |
| **T17** | Create date, location, and vehicle preference fields | 2 |  |
| **T18** | Return results on new page | 1 |  |
| **T19** | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 2 Total Hours: | 6 |  |

## Story 05: Update Vehicles - Not Inspected

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T20** | Create new field in vehicles table in database ‘Rental Status’ | 1 |  |
| **T21** | Implement editable vehicle data page for employees, manager, and board members | 2 |  |
| **T22** | Unlock fields for editing | 1 |  |
| **T23** | Update and lock fields | 1 |  |
| **T24** | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 2 Total Hours: | 6 |  |

## Story 06: Update Vehicles - Inspected

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T25** | Unlock fields for editing | 2 |  |
| **T26** | Update and lock fields | 2 |  |
| **T27** | Verify update | 1 |  |
| **T28** | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 2 Total Hours: | 6 |  |