IFB299 – Release and Sprint Plan

Group: BLINK 192

# 

|  |  |  |
| --- | --- | --- |
| Full Name | Student No. | Signature |
| Jeremy Barnes | n9685511 | https://lh4.googleusercontent.com/SOAWlhmfW3gDuqrr2FiDcE7CvBnokXF5L4cvr-cRu-9ocdTAp1VdPP21LfZXGoZMM8VZG_QUESqXNh2TrsmcO9DgKS_SXYAO1vh02ocNeM7dum6m5kI547VEzpN0_6AgVyE2oSoC |
| Taylor Bindon | n9296506 |  |
| Wenona Cramp-Church | n9738436 |  |
| Kirsten Moylan | n9948210 | https://lh5.googleusercontent.com/1OQknkMCbwlKffaaU7-IRiCMMMSPzTSUMDg_MgnpJspCXCuqR7VJqLds458JwfwmrBWO4swJZd3z2cka7ZjKad-q_nwX0tDDLBmx-qcEHk3YcWc6kZwime2JLttro2fPnbxLtBsB |
| Brianna Kerr | n9701010 | https://scontent.fbne3-1.fna.fbcdn.net/v/t1.15752-9/39753201_252017495648601_1376155212955254784_n.jpg?_nc_cat=0&oh=d59c802ffd07d60b750200d4ec182e73&oe=5BF8D3A3 |

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: 26th October 2018

Tutor: Prakash Bhandari

Tutorial: Fridays, 10am-12pm

Team Number: 92

Table of Contents

[Delivery Schedule 3](#_Toc528337557)

[Release 1 3](#_Toc528337558)

[Goals 3](#_Toc528337559)

[Sprint 1 Output 3](#_Toc528337560)

[Sprint 2 Output 4](#_Toc528337561)

[Login 4](#_Toc528337562)

[Recording of Historical Data 4](#_Toc528337563)

[Customer Search Functions 5](#_Toc528337564)

[Employee Search Function 5](#_Toc528337565)

[Calculated Velocity 6](#_Toc528337566)

[Sprint 2 Plan 7](#_Toc528337567)

[Story 01: Employee Login 7](#_Toc528337568)

[Story 02: Vehicle Recommendations 7](#_Toc528337569)

[Story 03: Generate Reports 7](#_Toc528337570)

[Story 04: Customer Vehicle Search 8](#_Toc528337571)

[Story 07: Employee Customer Search 8](#_Toc528337572)

[Release 2 8](#_Toc528337573)

[Sprint 1 8](#_Toc528337574)

[Updating Vehicle Status 8](#_Toc528337575)

[Payment 9](#_Toc528337576)

[Customer and Vehicle information 9](#_Toc528337577)

[Sprint 2 9](#_Toc528337578)

[Viewing Information 9](#_Toc528337579)

[Additional Main Page Functionality 10](#_Toc528337580)

Release Plan

# Delivery Schedule

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

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

# Release 1

Delivery date: 26th October 2018 Total Story Points: 18

## Goals

The goals for this release include to submit the final new data management system for a Car Rental Company (CRC). The database meets the main requirements of: recording the history of rental services and making car recommendations to customers. Currently, the database does not browse the number of cars picks up and returned in stores as this information as not included in the data provided. After weeks of brainstorming, the team decided to delay the implementation of user stories 5 and 6 tasks until Release 2, where more data can be gathered from the client. This release contains user stories 1-4 and 7.

## Sprint 1 Output

No user stories were finalised in Sprint 1. It was clear that the team had underestimated how long it would take to connect the database. At the end of Sprint 1, the webpage had limited functionality. The group had completed specific tasks, but no user stories were ‘fully’ completed. Therefore, the group finalised user stories 1-4 and 7 in Sprint 2. The adjusted velocity, and total hours taken to complete tasks were submitted in the final release.

The following tasks were completed in Sprint 1:

**Story 01: Employee Login**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T01** | Create employee login | 2 | 4 |
|  | Story Points: 2 Total Hours: | 2 | 4 |

**Story 02: Vehicle Recommendations**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T04** | Create database | 4 | 7 |
| **T05** | Create main page | 2 | 4 |
| **T06** | Create employee dashboard | 2 | 3 |
| **T07** | Create search text field | 1 | 2 |
|  | Story Points: 4 Total Hours: | 9 | 16 |

**Story 03: Generate Reports**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T11** | Create board member dashboard | 3 | 4 |
|  | Story Points: 2 Total Hours: | 3 | 4 |

Total hours: 24 (this does not include the time spent connecting the database; at least 20 hours). The velocity was not capable of being calculated due to the extensive work that was put into creating the database. The velocity was accurately calculated in Sprint 2 (below).

## Sprint 2 Output

User stories 1-4 and 7 were completed throughout Sprint 2. The customer vehicle search (Story ID: 4) was increased from two to four story points in this sprint to reflect the effort required to complete the task. The employee customer search (S07) was also increased from two to four story points.

### 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, with many people being able to access information that they shouldn’t be able to access. The implementation of an employee login provides a layer of security which prevents 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** | 4 |
|  | Story Point Sub-Total: | 4 |

### 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** | 4 |
|  | Story Point Sub-Total: | 4 |

## Calculated Velocity

The team consists of five members. The sprint lasts for a 5-week period (including the mid-semester break). Estimated approximately 1.5 days per week per team member

= 5 (5 x 1.44)

= 36 days spent on the task.

Estimate that approximately 1/2 of each working day is spent doing this task

= 36 x (1/2)

= 18 actual days per sprint.

Assume one story point takes 1 day to complete.

Team velocity is 18 story points/sprint.

NT: if one story takes one day to complete, assume 1 day = 8 hours.

Time spent completing the task

= 1/2 of each working day

= 4 hours.

Therefore, it takes 4 hours to complete one user point.

# Sprint 2 Plan

Total Story Points: 18 Total Hours: 72

Current Velocity: 18 story points

## Story 01: Employee Login

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T01** | Create employee login | 2 | Completed in Sprint 1 |
| **T02** | Verify login is valid with database | 3 | 6 |
| **T03** | Verify story is complete (acceptance test) | 1 | 2 |
|  | Story Points: 2 Total Hours: | 6 | 8 |

## Story 02: Vehicle Recommendations

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T04** | Create database | 4 | Completed in Sprint 1 |
| **T05** | Create main page | 2 | Completed in Sprint 1 |
| **T06** | Create employee dashboard | 2 | Completed in Sprint 1 |
| **T07** | Create search text field | 1 | Completed in Sprint 1 |
| **T08** | Return results on new page | 1 | 6 |
| **T09** | Create filters on results page | 1 | 7 |
| **T10** | Verify story is complete (acceptance test) | 1 | 3 |
|  | Story Points: 4 Total Hours: | 12 | 16 |

## Story 03: Generate Reports

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T11** | Create board member dashboard | 3 | Completed in Sprint 1 |
| **T12** | Implement dashboard functionality (Reports, charts, tables) | 4 | 7 |
| **T13** | Return results on new page | 2 | 5 |
| **T14** | Create filters on results page | 2 | 3 |
| **T15** | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 4 Total Hours: | 12 | 16 |

## Story 04: Customer Vehicle Search

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T16** | Create booking search on main page | 2 | 4 |
| **T17** | Create date, location, and vehicle preference fields | 2 | 5 |
| **T18** | Return results on new page | 1 | 5 |
| **T19** | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 4 Total Hours: | 6 | 16 |

## Story 07: Employee Customer Search

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T29** | Create employee search page | 1 | 5 |
| **T30** | Return results on table in webpage | 2 | 8 |
| **T31** | Verify story if complete (acceptance test) | 1 | 3 |
|  | Story Points: 4 Total Hours: | 4 | 16 |

# Release 2

Delivery date: to be decided Total story points: 26

The following Sprints are based on the velocity calculated in Release 1 – Sprint 2.

## Sprint 1

Velocity = 18 user points.

### 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 vehicle is in.

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

### 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 customers 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. The customer details allows employees to inform 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 |

## Sprint 2

Release 2 – Sprint 2 contains the final user stories and only involves 8 user points.

### 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 |