**Release and Sprint Plans**

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|  |  |
| --- | --- |
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# Release 1

Delivery date: *week 13* Total Story Points: 52

*Provide a landing page that allows for basic functionality including: tutorial walkthrough of site capabilities, account creation/login buttons for both customers and employees, car listings, and support contact information. Announcements/notifications will be able to be sent to various employees/store locations. Data manipulation and analytical tools will be available to management.*

## Main Page

*Provide users a landing page that allows access to other parts of the site (although this page can function independently of other features), and display tutorial information.*

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| ID1 | Home Page | 8 |
| ID18 | Persistent Menu Bar | 5 |
| ID11 | Contact service | 3 |
|  | Story Point Sub-Total: | 16 |

## 

## Account Creation/Login

*Account creation will be triggered by clicking account creation button on main page. Login functionality also supported for users with existing accounts. All information will be saved to a database.*

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| ID2 | Website Account | 13 |
|  | Story Point Sub-Total: | 13 |

## 

## Analyse data

*Data deemed important to users needing analytical data can be retrieved for analyses. Automatic database retrievals will be facilitated for such things as confirming login data and user account information.*

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| ID5 | Managerial Analytics | 13 |
| ID9 | Manipulate Data | 8 |
|  | Story Point Sub-Total: | 21 |

## Staff services

*This release heading allows for roles to be assigned to employees, assigning accessibilities and administrative constraints where necessary. The ability for employees to create new orders (ID20) is important for data to be added to the system for immediate analysis (without waiting for the end of the month).*

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| ID19 | Role Authority | 8 |
| ID20 | Create new order | 5 |
|  | Story Point Sub-Total: | 13 |

## Customer Browsing

*Data from analytics and customer preferences is utilised to provide customers with product recommendations. Product information is made visible to all users (regardless of account status) for browsing purposes.*

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| ID12 | Free information browsing | 13 |
| ID6 | Customer Recommendations | 3 |
|  | Story Point Sub-Total: | 16 |

# Release 2

Delivery date: *to be negotiated*  Total Story Points: 81

## Current Velocity: 39.6 (cumulative)

*Backlog of stories that are to be implemented in the next release. Spans returning customer process, order checking and reminders, artificially intelligent analysis, staff services, and customer comments.*

**Returning Customer Process**

*Utilises an extensive customer database to determine previous conduct of customers and their eligibility to rent a new car. Recommendations based on previous data may be made.*

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| ID8 | Returning Customer Eligibility | 8 |
|  | Story Point Sub-Total: | 8 |

**Order checking and reminder**

*Notifications of a new booking are sent to employees of the relevant store in real time or when appropriate. Employee can then prepare services and contact customer directly.*

*Each vehicle is assigned a status upon return that allows employees to know the return times of the car. Reminders may be sent to customers to inform them of the expected return time.*

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| ID10 | Online booking check | 5 |
| ID7 | Car Return Date Reminder | 5 |
| ID4 | Car Status | 13 |
|  | Story Point Sub-Total: | 23 |

## 

## Artificial Intelligence

*Data is automatically and intelligently analysed (artificial intelligence), allowing for future predictions to be made and previous data to be analysed.*

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| ID16 | Intelligent analysis | 21 |
|  | Story Point Sub-Total: | 21 |

## Staff Service

*Upper management can send announcements to selected staff. Recipients can be divided into store locations and employee type.*

*Data is to be able to be printed as a PDF and exported/downloaded to be utilised in various means. Data fields may be chosen specifically to download.*

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| ID14 | Staff Notification | 13 |
| ID17 | Data Printing | 8 |
|  | Story Point Sub-Total: | 21 |

**Customer Comments**

*Customers are able to comment and add reviews to the cars/services that they have purchased in order to better inform future customers of the specifications, benefits, and negatives of the service.*

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| ID13 | Adding reviews | 8 |
|  | Story Point Sub-Total: | 8 |

# 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 | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week 14 |  | Week 15 |  |  |  |  |  |
| Sprint 3 | | | |  | |  | |
| Release 2 | | | | | | | |

## Estimated Velocity: 7

Sprint Plan

# Sprint 1

Total Story Points: 52 Total Hours: 261.50

## Current Velocity: 39.6 (cumulative)

## Story ID 01: Home Page

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T01 | Mock-up of front-end | 5 |  |
| T02 | test cases (test functionalities of buttons, display layout) | 5 |  |
| T03 | Design background style (CSS) | 10 |  |
| T04 | Create main page layout (Html, CSS) | 9 |  |
| T05 | Create the rental form for customer including CSS | 6 |  |
| T06 | Write welcome information (special deals) and basic button functionalities | 8.5 |  |
| T07 | Verify story is completed (acceptance test) | 4 |  |
|  | Story Points: 8 Total Hours: | 47.5 |  |

## Story ID 02: Website Account

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T08 | Mock-up of front-end | 6 |  |
| T09 | test cases (check database saves entries correctly, check validation, ensure normalized, test scripts) | 8 |  |
| T10 | Create initial database | 6 |  |
| T11 | Create table for employee and customer account detail (Mysql) | 4 |  |
| T12 | Create main page layout (CSS) | 5 |  |
| T13 | Create the login page and sign up page | 5 |  |
| T14 | Add the information of employee and customer to database | 6 |  |
| T15 | Check the username existed or not | 5 |  |
| T16 | Add the JavaScript code for validations | 11 |  |
| T17 | Add the input validations (onchange(), onblur()) | 3 |  |
| T18 | Encrypt data in database | 3 |  |
| T19 | Verify the login information | 6 |  |
| T20 | Decrypt the password | 2 |  |
| T21 | Add the error message if login fail | 4 |  |
| T22 | Verify story is completed (acceptance test) | 5 |  |
|  | Story Points: 13 Total Hours: | 79 |  |

## Story ID 05: Managerial Analytics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T23 | Mock-up of front-end |  | 5 |  |
| T24 | Test case (normalization) |  | 4 |  |
| T25 | Create the order overview page layout (CSS) |  | 6 |  |
| T26 | Create the order overview page (html) |  | 5 |  |
| T27 | Create the database for all the data |  | 10 |  |
| T28 | Display order in the form |  | 9 |  |
| T29 | Add “Fix Bug” button to eliminate incomplete data |  | 7 |  |
| T30 | Verify story is completed (acceptance test) |  | 3 |  |
|  | Story Points: 13 Total Hours: |  | 48 |  |

**Story ID12: Free information browsing**

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T31 | Mock-up of front-end | 5 |  |
| T32 | Write test cases | 4 |  |
| T33 | Create car information page layout (CSS) | 10 |  |
| T34 | Create car information page and detail page (html) | 10 |  |
| T35 | Create sort buttons and write code to sort data based on different car types | 15 |  |
| T36 | Write SQL code to fetch car information data from database by car type | 7 |  |
| T37 | Write code to display car information data in the page | 6 |  |
| T38 | Write code to display the car detail page | 8 |  |
| T39 | Write SQL code to fetch car detail information data | 5 |  |
| T40 | User can click car rent button if they logged in, otherwise they can’t | 4 |  |
| T41 | Verify story is completed (acceptance test) | 5 |  |
|  | Story Points: 13 Total Hours: | 79 |  |

## Story ID 18: Persistent Menu Bar

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T42 | Mock-up of front-end |  | 2 |  |
| T43 | Test case (menu bar remains persistent) |  | 1 |  |
| T44 | Link buttons on menu bar to other parts of site |  | 4 |  |
| T45 | Verify story is complete |  | 1 |  |
|  | Story Points: 5 Total Hours: |  | 8 |  |

# Sprint 2

Total Story Points: 45 Total Hours: 216

## Current Velocity: 39.6

## Story ID 09: Manipulate Data

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T46 | Mock-up of front-end | 5 |  |
| T47 | test cases (ensure data is pulled correctly from database by populating with data, check sort button functionality) | 3 |  |
| T48 | Create the monthly outcome page (html) | 6 |  |
| T49 | Create the monthly outcome page layout (CSS) | 9 |  |
| T50 | Add year and month button for sql queries | 3 |  |
| T51 | Get user’s input from the front-end | 3 |  |
| T52 | Create the table for all the monthly outcome | 14 |  |
| T53 | Write the query to fetch data based on year and month | 8 |  |
| T54 | Write the query to count the number of pickup and return based on year and month | 10 |  |
| T55 | Write the query to add the new column for the number of pickup and return | 9 |  |
| T56 | Write the query to manage the data ordered by order id | 5 |  |
| T57 | Display the data the user would like to check from back-end to front-end | 11 |  |
| T58 | Display the year, month and total order this month | 6 |  |
| T59 | Add the login and logout function | 7 |  |
| T60 | Display the user’s name on the page | 9 |  |
| T61 | Verify story is completed (acceptance test) | 5 |  |
|  | Story Points: 21 Total Hours: | 113 |  |

## Story ID 06: Customer Recommendation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T62 | Mock-up of front-end |  | 2 |  |
| T63 | Create the customer recommendation layout (CSS) |  | 5 |  |
| T64 | Search by the year, month and city |  | 3 |  |
| T65 | Fetch the most popular car based on the year, month and city |  | 4 |  |
| T66 | Display the data from back-end to front-end |  | 2 |  |
| T67 | Write test cases (ensure user has logged in, ensure location is correct, ensure top 10 cars are automatically displayed) |  | 2 |  |
| T68 | Verify story is completed (acceptance test) |  | 2 |  |
|  | Story Points: 3 Total Hours: |  | 20 |  |

## Story ID 11: Contact Service

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T69 | Mock-up of front-end |  | 3 |  |
| T70 | Test case (Contact detail shows in the form correctly) |  | 2 |  |
| T71 | Create the contact service page layout (CSS) |  | 3 |  |
| T72 | Create table to store employee’s contact detail |  | 2 |  |
| T73 | Create form |  | 1 |  |
| T74 | Display contact detail in the form |  | 1 |  |
| T75 | Verify story is completed (acceptance test) |  | 2 |  |
|  | Story Points: 3 Total Hours: |  | 14 |  |

## Story ID 19: Role Authority

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T76 | Mock-up of front-end |  | 3 |  |
| T77 | Test Case (different role can see different data) |  | 2 |  |
| T78 | Create the staff information page layout |  | 3 |  |
| T79 | Create table to store staff information like position |  | 4 |  |
| T80 | Display the staff information data in the staff information page |  | 7 |  |
| T81 | Add the data fields to update the staff’s position |  | 6 |  |
| T82 | Check if the input username existed or not |  | 4 |  |
| T83 | Display the error message if the input username existed or not |  | 2 |  |
| T84 | Different role can see the different data |  | 8 |  |
| T85 | Link the staff information page to other pag3 |  | 3 |  |
| T86 | Verify story is completed (acceptance test) |  | 2 |  |
|  | Story Points: 13 Total Hours: |  | 44 |  |

## Story ID 20: Create new order

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T87 | Mock-up of front-end |  | 2 |  |
| T88 | Test case (Insert new order successfully) |  | 2 |  |
| T89 | Create the data fields in the order overview page |  | 4 |  |
| T90 | Write the JS code to make sure the input validations |  | 8 |  |
| T91 | Check if the order id existed or not |  | 4 |  |
| T92 | Display the error message |  | 2 |  |
| T93 | Display the new order information in the order overview page |  | 2 |  |
| T94 | Verify story is completed (acceptance test) |  | 1 |  |
|  | Story Points: 5 Total Hours: |  | 25 |  |

# BACKLOG SPRINT (sprint 3) DRAFT

## Story ID 4: Car Status

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T01 | Mock-up of front-end |  | 4 |  |
| T02 | Test case (displayed the data correctly in the form) |  | 2 |  |
| T03 | Create table to store car return information (damage, return time, comments) |  | 3 |  |
| T04 | Create a form |  | 3 |  |
| T05 | Display car return information in the form |  | 2 |  |
| T06 | Verify story is complete (acceptance test) |  | 2 |  |
|  | Story Points: 21 Total Hours: |  | 16 |  |

## 

## Story ID 13: Adding reviews

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T44 | Mock-up of front-end |  | 2 |  |
| T45 | Test case (User reviews submitted successfully) |  | 1 |  |
| T46 | Create text box to allow user to add review |  | 1 |  |
| T47 | Create table to store user reviews |  | 3 |  |
| T48 | Display user reviews in the car status page |  | 2 |  |
| T49 | Verify story is completed (acceptance test) |  | 1 |  |
|  | Story Points: 13 Total Hours: |  | 10 |  |

## Story ID 07: Car Return Date Access

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T15 | Mock-up of front-end |  | 3 |  |
| T16 | Test Case (“Remind” button will be displayed only if the return date is less than 3 days) |  | 2 |  |
| T17 | Create table to store the return date of rented cars |  | 3 |  |
| T18 | Create form |  | 2 |  |
| T19 | Display car return date in the form |  | 2 |  |
| T20 | Check if the date is close return date (less than 3 days) |  | 2 |  |
| T21 | Verify story is completed (acceptance test) |  | 2 |  |
|  | Story Points: 13 Total Hours: |  | 16 |  |

## 

## Story ID 14: Staff Notification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T36 | Mock-up of front-end |  | 4 |  |
| T37 | Test case (Announcement is edited and displayed successfully) |  | 3 |  |
| T38 | Create text box to edit announcement |  | 1 |  |
| T39 | Create radio button to select receiver |  | 1 |  |
| T40 | Create “announcement” button to send notifications |  | 5 |  |
| T41 | Link employee contact information from database to popup |  | 4 |  |
| T42 | Verify story is complete (acceptance test) |  | 1 |  |
|  | Story Points: 8 Total Hours: |  | 19 |  |