**Release and Sprint Plans**

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Release Plan

# Release 1

Delivery date: *week 13* Total Story Points: 82

*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 | 5 |
|  | Story Point Sub-Total: | 5 |

## 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 | 8 |
| ID3 | Role Authority | 8 |
|  | Story Point Sub-Total: | 16 |

## 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 | 5 |
| ID8 | Returning Customer Eligibility | 5 |
| ID9 | Manipulate data | 8 |
|  | Story Point Sub-Total: | 18 |

## Staff Management

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

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| ID14 | Staff Notification | 8 |
|  | Story Point Sub-Total: | 8 |

## 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 |
| ID6 | Customer Recommendations | 5 |
| ID12 | Free information browsing | 5 |
|  | Story Point Sub-Total: | 10 |

## Customer Basic Service

*Customers will be able to first login and then book a car through the online portal. Ability for customers to initiate contact with employees is available. Select users can add comments to product listings for other users to see.*

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| ID10 | Online booking check | 3 |
| ID11 | Contact service | 3 |
| ID13 | Adding reviews | 3 |
|  | Story Point Sub-Total: | 9 |

## Car Status Check

*Each vehicle is assigned a status upon return that allows employees to know the return times of the car, as well as any damage incurred. Further open-ended comments can be added to the status of the vehicle.*

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| ID4 | Car Status | 8 |
| ID7 | Car Return Date Access | 8 |
|  | Story Point Sub-Total: | 16 |

# Release 2

Delivery date: *to be negotiated*  Total Story Points: 83

*Extensions to the functionality of the system will be added in the form of mobile optimisation and artificial intelligence for analytical purposes and predictions.*

## Mobile flexibility

*Mobile optimisation is available, with every part of the web application being functionally the same as the mobile application, but displayed in an optimised form.*

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| ID15 | Mobile App | 34 |
|  | Story Point Sub-Total: | 34 |

## 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 | Artificial Intelligence | 49 |
|  | Story Point Sub-Total: | 49 |
|  |  |  |

# 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: 39 Total Hours:84

## Current Velocity: 39.6 (cumulative)

## Story ID 01: Home Page

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T01 | Mock-up of front-end | 2 |  |
| T02 | test cases (test functionalities of buttons, display layout) | 1 |  |
| T03 | Create main page layout (Html, CSS) | 3 |  |
| T04 | Design background style (CSS) | 3 |  |
| T05 | Write welcome information (special deals) and basic button functionalities | 4 |  |
| T06 | Verify story is completed (acceptance test) | 1 |  |
|  | Story Points: 5 Total Hours: | 14 |  |

## Story ID 02: Website Account

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T07 | Mock-up of front-end | 2 |  |
| T08 | test cases (check database saves entries correctly, check validation, ensure normalized, test scripts) | 2 |  |
| T09 | Create initial database | 1 |  |
| T10 | Create table for employee and customer account detail (Mysql) | 1 |  |
| T11 | Create the login page and sign up page | 1 |  |
| T12 | Add the information of employee and customer to database | 2 |  |
| T13 | Add the input validations (account name, password) | 5 |  |
| T14 | Encrypt data in database | 2 |  |
| T15 | Verify story is completed (acceptance test) | 1 |  |
|  | Story Points: 8 Total Hours: | 19 |  |

## Story ID 3: Role Authority

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T16 | Mock-up of front-end |  | 1 |  |
| T17 | Test case (role is assigned correctly) |  | 3 |  |
| T18 | Create staff number database and the number based on the role initial (C-CEO, M-Manager, S-Staff) |  | 7 |  |
| T19 | Link employee contact information from database to popup |  | 3 |  |
| T20 | Verify story is complete (acceptance test) |  | 1 |  |
|  | Story Points: 8 Total Hours: |  | 15 |  |

## Story ID 05: Managerial Analytics

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T21 | Mock-up of front-end | 1 |  |
| T22 | test cases (ensure data is pulled correctly from database by populating with data, check sort button functionality) | 1 |  |
| T23 | Create the interface for sql queries (sort-by store, car type buttons, display table) | 1 |  |
| T24 | Create the query to fetch number of cars based on “return” word | 2 |  |
| T25 | Create the query to fetch number of cars based on “pick up” word | 2 |  |
| T26 | Link SQL code to the interface | 2 |  |
| T27 | Verify story is completed (acceptance test) | 1 |  |
|  | Story Points: 5 Total Hours: | 10 |  |

**Story ID12: Free information browsing**

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T28 | Mock-up of front-end | 1 |  |
| T29 | Create car status page layout | 2 |  |
| T30 | Write SQL code to fetch car status data from database | 1 |  |
| T31 | Write code to display car status in the page | 1 |  |
| T32 | Write test cases | 2 |  |
| T33 | Create sort button and write code to sort data based on different car types | 1 |  |
| T34 | User can click car rent button if they logged in, otherwise they can’t | 3 |  |
| T35 | Verify story is completed (acceptance test) | 1 |  |
|  | Story Points: 5 Total Hours: | 12 |  |

## Story ID 14: Staff Notification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T36 | Mock-up of front-end |  | 1 |  |
| T37 | Test case (Announcement is edited and displayed successfully) |  | 1 |  |
| 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: |  | 14 |  |

# Sprint 2

Total Story Points: 49 Total Hours:80

## Current Velocity: 39.6

## Story ID 4: Car Status

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T01 | Mock-up of front-end |  | 1 |  |
| T02 | Test case (displayed the data correctly in the form) |  | 2 |  |
| T03 | Create table to store car return information (damage, return time, comments) |  | 2 |  |
| T04 | Create a form |  | 1 |  |
| T05 | Display car return information in the form |  | 2 |  |
| T06 | Verify story is complete (acceptance test) |  | 1 |  |
|  | Story Points: 8 Total Hours: |  | 9 |  |

## 

## Story ID 06: Customer Recommendation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T07 | Mock-up of front-end |  | 1 |  |
| T08 | Get current location of the web browser |  | 2 |  |
| T09 | Find the nearest store for the web browser |  | 2 |  |
| T10 | Fetch the number of available cars at closest store |  | 2 |  |
| T11 | Sort those cars based on previous rental history (if returning customer), then by popularity |  | 3 |  |
| T12 | Fetch the highest amount in top 10 and display on home page |  | 4 |  |
| T13 | Write test cases (ensure user has logged in, ensure location is correct, ensure top 10 cars are automatically displayed) |  | 2 |  |
| T14 | Verify story is completed (acceptance test) |  | 1 |  |
|  | Story Points: 5 Total Hours: |  | 17 |  |

## Story ID 07: Car Return Date Access

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T15 | Mock-up of front-end |  | 1 |  |
| T16 | Test Case (“Remind” button will be displayed only if the return date is less than 3 days) |  | 1 |  |
| T17 | Create table to store the return date of rented cars |  | 3 |  |
| T18 | Create form |  | 2 |  |
| T19 | Display car return date in the form |  | 1 |  |
| T20 | Check if the date is close return date (less than 3 days) |  | 2 |  |
| T21 | Verify story is completed (acceptance test) |  | 1 |  |
|  | Story Points: 8 Total Hours: |  | 11 |  |

## Story ID 08: Returning Customer Eligibility

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T22 | Mock-up of front-end |  | 1 |  |
| T23 | Test case (display table correctly, normalization) |  | 1 |  |
| T24 | Query the database to check if the customer returned or new when they order the new car |  | 1 |  |
| T25 | Popup on employee computer at the store it is ordered at to display previous rental history (accident status, return time accuracy) |  | 3 |  |
| T26 | Write test cases (check database saves previous rental history, accident status on previous rentals, and return time accuracy, ensure normalized) |  | 2 |  |
| T27 | Verify story is completed (acceptance test) |  | 1 |  |
|  | Story Points: 5 Total Hours: |  | 9 |  |

## Story ID 09: Manage Order

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T28 | Mock-up of front-end |  | 1 |  |
| T29 | Test case (normalization) |  | 1 |  |
| T30 | Create form |  | 3 |  |
| T31 | Display order in the form |  | 2 |  |
| T32 | Add “edit” button to make data editable |  | 5 |  |
| T33 | Verify story is completed (acceptance test) |  | 1 |  |
|  | Story Points: 8 Total Hours: |  | 13 |  |

## Story ID 10: Online booking check

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T34 | Mock-up of front-end |  | 1 |  |
| T35 | Test case (pop message successful) |  | 1 |  |
| T36 | Pop up any hint messages after user booked online |  | 3 |  |
| T37 | Verify story is completed (acceptance test) |  | 1 |  |
|  | Story Points: 3 Total Hours: |  | 6 |  |

## Story ID 11: Contact Service

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T38 | Mock-up of front-end |  | 1 |  |
| T39 | Test case (Contact detail shows in the form correctly) |  | 1 |  |
| T40 | Create table to store employee’s contact detail |  | 1 |  |
| T41 | Create form |  | 2 |  |
| T42 | Display contact detail in the form |  | 1 |  |
| T43 | Verify story is completed (acceptance test) |  | 1 |  |
|  | Story Points: 3 Total Hours: |  | 7 |  |

## Story ID 13: Adding reviews

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task ID | Task Description |  | Estimate | Taken |
| T44 | Mock-up of front-end |  | 1 |  |
| 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 |  | 1 |  |
| T49 | Verify story is completed (acceptance test) |  | 1 |  |
|  | Story Points: 3 Total Hours: |  | 8 |  |