**Release and Sprint Plans**

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**Table of Contents**

[Release Plan 1](#_Toc426554714)

[Release 1 1](#_Toc426554715)

[Website 1](#_Toc426554716)

[Account system 1](#_Toc426554717)

[User account 1](#_Toc426554717)

[Administrator Account 1](#_Toc426554717)

[Release 2 2](#_Toc426554718)

[Database 2](#_Toc426554717)

[System Features 2](#_Toc426554719)

[Administrator Features 2](#_Toc426554720)

[Detailed Information 2](#_Toc426554717)

[User Enhancements 3](#_Toc426554717)

[Release 3 3](#_Toc426554721)

[More City Information 3](#_Toc426554717)

[Mobile Application 3](#_Toc426554722)

[Feedback, Forum and Social Media 3](#_Toc426554723)

[Extra Useful Features 4](#_Toc426554723)

[Language Features 4](#_Toc426554723)

[Delivery Schedule 4](#_Toc426554724)

[Estimated Velocity: 4](#_Toc426554725)

[Sprint Plan 5](#_Toc426554726)

[Sprint 1 5](#_Toc426554727)

[Current Velocity: N/A](#_Toc426554728)

[Story S1: Welcome page 5](#_Toc426554729)

[Story U3: Admin account 5](#_Toc426554730)

[Story U1: Account creation 5](#_Toc426554731)

[Story U6: Account login 5](#_Toc426554731)

[Story U4: Admin account page 6](#_Toc426554731)

[Story U7: Account Logout 6](#_Toc426554731)

[Sprint 2 7](#_Toc426554727)

[Story S4: Detailed city information 7](#_Toc426554731)

[Story U17: City information 7](#_Toc426554731)

[Story U2: Account type 7](#_Toc426554731)

[Story U18 Industries information 7](#_Toc426554731)

Release Plan

# Release 1

Delivery date: 1st November 2017 Total Story Points: 22

## A working prototype of the smart city system will be developed based on the requirement from the client. The system will provide an initial website that will provide detailed information about the city. Each user will be able to create an account while selecting their preferred user type. Based on the information logged in registered users will be able to view information that is relevant to their user type. Admin user is created to give permission to modify the website.

## Website

Main landing website, the users can view the city information. Aesthetically pleasing page with easy navigation layout. Clear location of identifiable registration and login buttons.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| S1 | Welcome page | 2 |
|  | Story Point Sub-Total: | 2 |

## Account system

A system that handles the login and logout process. Users account detailed is kept confidentially

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| U6 | Account login | 4 |
| U7 | Account logout | 1 |
| U8 | Account security | 2 |
|  | Story Point Sub-Total: | 7 |

## User Account

Each user can register new account while selected their preferred user type. Users are able to update details and also able to change user type based on their current needs.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| U1 | Account creation | 3 |
| U2 | Account type | 3 |
|  | Story Point Sub-Total: | 6 |

## Administrator Account

Admin is provided with admin account which gives privileges to the website. Admin will have their own admin landing page and have the sole permission to create another admin account

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| U3 | Admin account | 3 |
| U4 | Admin account page | 2 |
| U15 | Other Admins | 2 |
|  | Story Point Sub-Total: | 7 |

# Release 2

Delivery date: 1st November 2017 Total Story Points: 33

## Provide users with additional information on the other cities and new functionalities which consist of interactive map and search tool. New admin only features that allow much deeper customisation of the website. The users account type can also be changed so that users are not only limited to the user type that was selected from the initial registration.

## Database

MySQL database that contains and stores all the information displayed on the system

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| S4 | Detailed city information | 3 |
| S5 | City database manipulation | 1 |
| S6 | Database rows | 1 |
| U11 | City information database | 1 |
| U12 | Database segmentation | 1 |
| U19 | Update / Create for data | 1 |
|  | Story Point Sub-Total: | 8 |

## System Features

A feature that brings interactive feature of the system. Users are able to search quickly for the information and also have the interactive map of the city.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| U10 | Search system | 3 |
| U13 | Map data | 3 |
|  | Story Point Sub-Total: | 6 |

## Administrator Features

Admin has the sole ability to edit/modify the contents of the website. Admin can upload maps and control the registered user’s account.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| S2 | Admin website customisation | 3 |
| S3 | Map upload | 1 |
| U5 | User management | 2 |
|  | Story Point Sub-Total: | 6 |

## Detailed Information

Users are able to view highly detailed information of the city in sub categories which contain all the relevant information of the city.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| U17 | City information | 2 |
| U18 | Industries information | 2 |
|  | Story Point Sub-Total: | 4 |

## User Enhancements

Provide registered users with extra features to update and recovery their account information. Users are also able to change their current user types to access other information.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| U9 | Account recovery | 4 |
| U14 | Change user type | 2 |
| U16 | Update account information | 3 |
|  | Story Point Sub-Total: | 9 |

## 

# Release 3

Delivery date: To be negotiated Total Story Points: 45

List of all the optional non-mandatory recommended features that could bring more value to the business from both client and the developers. To gain scalability to accommodate changing demands from the users of the system.

## More City Information

Implementation of additional Australian cities and addition of new city services that were not featured in the previous version.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| O5 | Different cities | 5 |
| O6 | More city information | 5 |
|  | Story Point Sub-Total: | 10 |

## Mobile application

Standalone mobile application designed specifically for mobile devices (iOS and Android) to gain more users

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| O7 | Mobile application | 8 |
|  | Story Point Sub-Total: | 8 |

## Feedback, Forum and Social Media

Features that are less important to the system but could bring more value to both business and the users. Online forum and social media integration bring more active interaction between users and feedback that could benefit the business for further improvement of the system.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| O2 | Feedback page | 3 |
| O3 | Social media integration | 1 |
| O4 | Online forum | 5 |
|  | Story Point Sub-Total: | 9 |

## Extra Useful Features

Very useful feature that could bring more value to the users using the system. Users will benefit from these extra features which brings much more efficiency for regular users of the system

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| O8 | Rating system | 4 |
| O9 | Calendar system | 3 |
| O10 | Favourite feature | 3 |
|  | Story Point Sub-Total: | 10 |

## Language Feature

Users will be able to change the displayed language of the website to their preferred language

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| O1 | Language options | 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 3, 4, … | | | | | | | |

## Estimated Velocity:

[(5 members \* 2 hrs/day \* 5days \* 4weeks (20days))/3]

New Estimated Velocity Sprint 2 = 8 Story points

Sprint Plan

# Sprint 1

Total Story Points: 22 Total Hours: 47

Hours per Story Points: 2.6

## Current Velocity: Undefined

## Story S1: Welcome page

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T01 | Create a landing page with basic layout that shows City information in tiled format | 2 | 2 |
| T02 | Create buttons for login and registration | 0.5 | 0.5 |
| T03 | Test the landing page with different web browsers | 1 | 0.5 |
| T04 | Verify story is complete (acceptance test | 1 | 0.5 |
|  | Story Points: 2 Total Hours: | 4.5 | 3.5 |

## Story U3: Admin account

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T05 | Create a unique admin login page | 1 | 0.5 |
| T06 | Create account registration tool for creating another new admin account | 2 | - |
| T07 | Create a tool for create and edit data | 2 | - |
| T08 | Write test cases | 1 | 1 |
| T09 | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 3 Total Hours: | 7 | 2.5 |

## Story U1: Account creation

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T10 | Create a registration page that contains mandatory field plus optional field | 2 | 3 |
| T11 | Validation check for the invalid data entry for the registration field | 2 | 2 |
| T12 | Create a validation message after successful account is created | 1 | 0.5 |
| T13 | Create database to save users information | 1 | 1 |
| T14 | Write test cases | 1 | 1 |
| T15 | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 3 Total Hours: | 8 | 8.5 |

## Story U6: Account login

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T16 | Create a login page with user name and password entry | 2 | 2 |
| T17 | Implement of login function | 3 | 5 |
| T18 | Verify successful login and unsuccessful login | 1 | 0.5 |
| T19 | Create personalised page for the login user | 4 | 4 |
| T20 | Write test cases | 1 | 1 |
| T21 | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 4 Total Hours: | 12 | 13.5 |

## Story U4: Admin account page

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T22 | Create Admin account landing page | 2 | 0.5 |
| T23 | Write test cases | 2 | 1 |
| T24 | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 2 Total Hours: | 5 | 2.5 |

## Story U7: Account Logout

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T25 | Create logout button for every page (on the menu) | 1 | 1 |
| T26 | Verify successful logout | 0.5 | 0.5 |
| T27 | Implement the clear session data process | 2 | 1 |
| T28 | Write test cases | 1 | 1 |
| T29 | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 2 Total Hours: | 5.5 | 4.5 |

## Story U8: Account security

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T30 | Integrate CAPTCHA for login page | 2 | - |
| T31 | Encrypted users stored password in DB (salt & hash) | 1 | 0.5 |
| T32 | Write test cases | 1 | 0.5 |
| T33 | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 2 Total Hours: | 5 | 2 |

# Sprint 2

Total Story Points: 18 Total Hours: 44

Hours per Story Points: 2.6

## Current Velocity: 30

## Story S4: Detailed city information

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T37 | Design a database structure with sub categories | 2 | 4 |
| T38 | Create database | 2 | 1 |
| T39 | Fill up the database with requested information | 3 | 3 |
| T40 | Write test cases | 2 | 1 |
| T41 | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 3 Total Hours: | 10 | 11 |

## Story U17: City information

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T42 | Design a database structure consists of park, zoo, museum, restaurant and mall | 2 | 3 |
| T43 | Categorise each with name, address, phone and email | 1 | 1 |
| T44 | Write test cases | 1 | 1 |
| T45 | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 2 Total Hours: | 5 | 6 |

## Story U2: Account type

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T46 | Create three separate landing pages for “Student, Business and Tourist” | 4 | 4 |
| T47 | Link the related database for each pages | 2 | 4 |
| T48 | Write test cases | 1 | 1 |
| T49 | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 3 Total Hours: | 8 | 10 |

## Story U18: Industries information

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T50 | Design a database structure consists of college, library, industry and hotel | 2 | 4 |
| T51 | Categorise library and hotels with name, address, phone number and email | 0.5 | 1 |
| T52 | Categorise college with name, address, departments and email | 0.25 | 1 |
| T53 | Categorise industry with name, address, type and email | 0.25 | 1 |
| T54 | Write test cases | 1 | 1 |
| T55 | Verify story is complete (acceptance test) | 1 | 2 |
|  | Story Points: 2 Total Hours: | 5 | 10 |

## Story U10: Search system

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T56 | Create a search bar on the top of the page | 1 | - |
| T57 | Apply search function to link to the database | 4 | - |
| T58 | Write test cases | 1 | - |
| T59 | Verify story is complete (acceptance test) | 1 | - |
|  | Story Points: 4 Total Hours: | 7 | - |

## Story U13: Map data

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T60 | Make function to display the map data | 3 | - |
| T61 | Link the map location to the database address | 4 | - |
| T62 | Write test cases | 1 | - |
| T63 | Verify story is complete (acceptance test) | 1 | - |
|  | Story Points: 4 Total Hours: | 9 | - |