Smart City - Release & Iteration Plan

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| **Student No** | **Name** |
| n9469010 | Zaine Ashe |
| n9592059 | Xuesen Li |
| n9617019 | Blue Lan |
| n9677542 | Evan Zhang |
| n9727655 | Asuka Van Den Hooven |

Unit: IFB299 - Project Design and Development

Group 114

Tutor: Ahmed Shoeb Talukder

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**Release Plan**

**Release 1**

Delivery date: 05 October 2017 Total Story Points: 57

This release will provide a simple web service which the end user can use to view city information. System admins will be able to insert and edit city-based information. Users will be able to search for specific entries. Users will be able to register accounts. Registered users will be given information tailored to their interests. When registering, users will need to provide their demographic from the following choices: Tourist, Student or Businessman.

**Core site navigation**

Website can be viewed and navigated by unregistered users. System Admins have agency to create and edit info entries. Fully implemented search bar, with ‘other information’ option.

|  |  |  |
| --- | --- | --- |
| *Story ID* | *Story Title* | *Story Points* |
| **S04** | Menu Buttons | 2 |
| **S16** | Search Engine | 4 |
| **S06** | Access to Other Information | 2 |
| **S07** | Edit City Information | 4 |
| **S32** | Admin Register | 4 |
| Story Point Sub-Total | | 16 |

**User Functionality**

Users can register accounts using web application. To register, users provide usernames, passwords and demographics. User passwords are encrypted in database storage. Registered users can edit their details using the website.

|  |  |  |
| --- | --- | --- |
| *Story ID* | *Story Title* | *Story Points* |
| **S03** | Account Setup | 2 |
| **S31** | Account Login | 2 |
| **S02** | Edit Account Details | 4 |
| **S01** | Password Encryption | 1 |
| Story Point Sub-Total | | 9 |

**City-based Information**

Registered or otherwise, users can view city information using the website’s search bar functionality. Basic city information is not recommended to any specific user demographic, and is accessible by all types of users.

|  |  |  |
| --- | --- | --- |
| *Story ID* | *Story Title* | *Story Points* |
| **S26** | Restaurant Information | 2 |
| **S27** | Park Information | 2 |
| **S28** | Museum Information | 2 |
| **S29** | Zoo Information | 2 |
| **S30** | Mall Information | 2 |
| Story Point Sub-Total | | 10 |

**Specialised Information**

Users can view information that is more specialised that City-based information. Registered users are given recommendations based on their demographic. However, access to specialised information isn’t limited to its intended account type.

|  |  |  |
| --- | --- | --- |
| *Story ID* | *Story Title* | *Story Points* |
| **S08** | Hotel Information for Tourists | 4 |
| **S09** | College Information for Students | 4 |
| **S10** | Library Information for Students | 4 |
| **S11** | Hotel Information for Businessmen | 4 |
| **S12** | Industry Information for Businessmen | 4 |
| Story Point Sub-Total | | 20 |

**Release 2**

Delivery date: To be Discussed Total Story Points: 59

This release will provide more granular features to the Smart City service. Users will be able to book sightseeing tickets with third party services, and bookmark certain entries. Weather forecasts will be available to users. Information will be categorised to allow entries for more than one city. The web application will be optimised for mobile use, and available in multiple languages. Users will be able to recover lost accounts, and auto-fill failed login forms. Users will be able to browse public transport services, student accommodation and current events similarly to the previously implemented types of entries. Users, registered or otherwise, will also be given easy access to emergency information & online emergency reporting.

**Extended Functionality**

Users are provided with links to book tickets from third party sites. Users can view current temperature and other forecast data. When viewing an entry, users are given the option to view travel instructions to that entries location. Information entries can be categorised into city groups by system administrators, and users can narrow their searches down to a specific city.

|  |  |  |
| --- | --- | --- |
| *Story ID* | *Story Title* | *Story Points* |
| **S23** | Travel Directions | 8 |
| **S17** | Weather Forecast | 4 |
| **S24** | Book Sightseeing Tickets | 4 |
| **S05** | Information for other cities | 4 |
| Story Point Sub-Total | | 20 |

**Usability Features**

Users can switch the language of the web application. User experience is optimised for mobile browsing as well as browsing on PC. Users can bookmark specific entries to allow quick return. Information entry forms fill automatically on failed logins / registrations. User accounts with lost passwords can be recovered by contacting user email / phone no.

|  |  |  |
| --- | --- | --- |
| *Story ID* | *Story Title* | *Story Points* |
| **S15** | Language Settings | 8 |
| **S25** | Filling Forms Automatically | 1 |
| **S21** | Mobile Optimisation | 8 |
| **S22** | Bookmarks | 4 |
| **S13** | Account Recovery | 4 |
| Story Point Sub-Total | | 25 |

**Additional Information types**

Users can view more types of city information, using the search bar functionality implemented in Release 1. Emergency information is easily accessible by all kinds of users, registered or otherwise.

|  |  |  |
| --- | --- | --- |
| *Story ID* | *Story Title* | *Story Points* |
| **S14** | Public Transport Services | 4 |
| **S18** | Student Accommodation | 4 |
| **S19** | Event Information | 4 |
| **S20** | Emergency Information | 2 |
| Story Point Sub-Total | | 14 |

**Delivery Schedule**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sem 2** (17se2) | | | | | | | |
| Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | Week 13 |
| **Sprint 1** | | | | **Sprint 2** | | | |
| **Release 1** | | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TBA** | | | | | | | |
|  |  |  |  |  |  |  |  |
| **Sprint 3** | | | | **...** | | | |
| **Release 2** | | | | | | | |

Estimated Velocity: 29

# Sprint Plans

## Sprint 1

Total Story Points: 38 Total Hours: 46

Final velocity: 34/38 story points completed

approx. 1.6 tasks, 0.4 stories per day

### Story 03: Account Setup

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T01 | Design the UI for register page | 1 | 0.5 |
| T02 | Write code to create the register page for users to register | 2 | 1.5 |
| T03 | Write code to store user data into database | 2 | 2 |
| T04 | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 2 Total Hours: | 6 | 5 |

### Story 31: Account Login

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T05 | Design the UI for login page | 1 | 0.25 |
| T06 | Write code to create the login page for users to log in | 2 | 2 |
| T07 | Verify story is complete (acceptance test) | 1 | 0.75 |
|  | Story Points: 2 Total Hours: | 4 | 3 |

### Story 32: Admin Register

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T08 | Design the UI for administrator register page | 1 | 0.5 |
| T09 | Write code to create a page for registering administrator account | 2 | 0.25 |
| T10 | Verify story is complete (acceptance test) | 1 | 0.75 |
|  | Story Points: 4 Total Hours: | 4 | 1.5 |

### Story 07: Edit City Information

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T11 | Design the UI for the page of editing city information | 2 | 0.5 |
| T12 | Write code to create the page for administrator to manipulate city data | 3 | 0.5 |
| T13 | Write code to store changes into database | 2 | 3 |
| T14 | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 4 Total Hours: | 8 | 5 |

### 

### Story 04: Menu Buttons

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T15 | Design the UI for menu buttons | 1 | 1 |
| T16 | Write code relating to implement the menu buttons layout | 2 | 0.5 |
| T17 | Write code to retrieve data from database | 2 | 1 |
| T18 | Verify story is complete (acceptance test) | 1 | 0.25 |
|  | Story Points: 2 Total Hours: | 6 | 2.75 |

### Story 08: Hotel Information for Tourists

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T19 | Design the UI for hotel information page | 1 | 1 |
| T20 | Write code to create the page showing hotel information | 2 | 1 |
| T21 | Write code to check permissions and retrieve data from database | 2 | 2 |
| T22 | Write code to show the hotel position on a map | 2 | 0.75 |
| T23 | Verify story is complete (acceptance test) | 1 | 0.5 |
|  | Story Points: 4 Total Hours: | 8 | 5.25 |

### Story 09: College Information for Students

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T24 | Transfer code, design & map API from previous information page | 0.5 | 0.5 |
| T25 | Write code to check permissions and retrieve data from database | 0.5 | 0.5 |
| T26 | Verify story is complete (acceptance test) | 1 | 0.5 |
|  | Story Points: 4 Total Hours: | 2 | 1.5 |

### Story 10: Library Information for Students

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T27 | Transfer code, design & map API from previous information page | 0.5 | 0.5 |
| T28 | Write code to check permissions and retrieve data from database | 0.5 | 0.5 |
| T29 | Verify story is complete (acceptance test) | 1 | 0.5 |
|  | Story Points: 4 Total Hours: | 2 | 1.5 |

### Story 11: Hotel Information for Businessman

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T30 | Transfer code, design & map API from previous information page | 0.5 | 0.5 |
| T31 | Write code to check permissions and retrieve data from database | 0.5 | 0.5 |
| T32 | Verify story is complete (acceptance test) | 1 | 0.5 |
|  | Story Points: 4 Total Hours: | 2 | 1.5 |

### Story 12: Industry Information for Businessman

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T33 | Transfer code, design & map API from previous information page | 0.5 | 0.5 |
| T34 | Write code to check permissions and retrieve data from database | 0.5 | 0.5 |
| T35 | Verify story is complete (acceptance test) | 1 | 0.5 |
|  | Story Points: 4 Total Hours: | 2 | 1.5 |

### Story 26: Restaurant Information

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T36 | Transfer code, design & map API from previous information page | 0.5 | 0.5 |
| T37 | Write code to check permissions and retrieve data from database | 0.5 | 0.5 |
| T38 | Verify story is complete (acceptance test) | 1 | 0.5 |
|  | Story Points: 4 Total Hours: | 2 | 1.5 |

## Sprint 2

Total Story Points: 19 Total Hours: 31

Final velocity: 26/26 story points completed

approx. 1.4 tasks, 0.3 stories per day

### Story 16: Search Engine

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T01 | Design the UI for search engine | 1 | 0.5 |
| T02 | Write front-end code for search engine | 2 | 1 |
| T03 | Write back-end code for search engine | 2 | 2 |
| T04 | Verify story is complete (acceptance test) | 1 | 0.75 |
|  | Story Points: 4 Total Hours: | 6 | 4.25 |

### Story 06: Access to Other Information

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T05 | Segment menu buttons to fit user needs | 1 | 0.5 |
| T06 | Add other button allowing users to access other information | 1 | 0.25 |
| T07 | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 2 Total Hours: | 3 | 1.75 |

### Story 02: Edit Account Details

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T08 | Design the UI for edit account page | 1 | 0.5 |
| T09 | Write code to create a page for editing user account | 2 | 1 |
| T10 | Write back-end code for database altering | 2 | 2.5 |
| T11 | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 4 Total Hours: | 6 | 5 |

### Story 01: Password Encryption

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T12 | Implement password encryption in create user page | 1 | 0.5 |
| T13 | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 1 Total Hours: | 2 | 1.5 |

### Story 27: Park Information

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T14 | Design the UI for park information page | 1 | 0.5 |
| T15 | Write code to create the page showing park information | 2 | 1.75 |
| T16 | Write code to check permissions and retrieve data from database | 2 | 3 |
| T17 | Write code to show the park position on a map | 2 | 1.25 |
| T18 | Verify story is complete (acceptance test) | 1 | 1 |
|  | Story Points: 2 Total Hours: | 8 | 7.5 |

### Story 28: Museum Information

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T19 | Transfer code, design & map API from previous information page | 0.5 | 0.5 |
| T20 | Write code to check permissions and retrieve data from database | 0.5 | 0.5 |
| T21 | Verify story is complete (acceptance test) | 1 | 0.5 |
|  | Story Points: 2 Total Hours: | 2 | 1.5 |

### Story 29: Zoo Information

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T22 | Transfer code, design & map API from previous information page | 0.5 | 0.5 |
| T23 | Write code to check permissions and retrieve data from database | 0.5 | 0.5 |
| T24 | Verify story is complete (acceptance test) | 1 | 0.5 |
|  | Story Points: 2 Total Hours: | 2 | 1.5 |

### Story 30: Mall Information

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T25 | Transfer code, design & map API from previous information page | 0.5 | 0.5 |
| T26 | Write code to check permissions and retrieve data from database | 0.5 | 0.5 |
| T27 | Verify story is complete (acceptance test) | 1 | 0.5 |
|  | Story Points: 2 Total Hours: | 2 | 1.5 |