**Release Plans**

**Team Number 111**

|  |  |
| --- | --- |
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**Release Plan**

**Release 1**

Delivery date: 21/09/16 [week 9]

Total Story Points: 97

The goals for this release include templates for form submission, a front-end website application for users, creating the back-end SQL database(s) for the front-end application, writing queries to organise the accumulated data, portable (tablet) access to the implementation and user-specific access to data.

**Access to Application**

Involves creating the front-end website application and the template for form submission. Creating a permit form template allows the user to easily submit necessary information that remains consistent and usable within the proposed database. A front-end website application ensures the user has access to the form and the ability to complete it immediately with the intention to be capable of conveniently using a multitude of available devices.

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| --- | --- | --- |
| **Story ID** | **Story Title** | **Story Points** |
| **1** | Access - Permit Form | 16 |
| **2** | Access - Online | 16 |
|  | Story Point Sub-Total: | 32 |

**Back-end Development**

Involves creating the back-end SQL database(s) as well as writing SQL queries to organise data. Creating and eventually linking the back-end SQL database(s) to the front-end application ensures instantaneous recording (from form submissions) and retrieval of data. Configuring data to ensure that each permit entry is uniquely identified is imperative to prevent duplicity and in creating an ordered database for ease of use and reference. Writing SQL queries ensures that department members can organise data to suit their needs in efficiently locating and completing approvals, payments, and issue resolutions.

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| --- | --- | --- |
| **Story ID** | **Story Title** | **Story Points** |
| **20** | Unique - Permit Entry | 1 |
| **21** | Organise - Approval Status | 2 |
| **24** | Organise - Payment Status | 2 |
| **28** | Organise - Resolution Status | 2 |
|  | Story Point Sub-Total: | 7 |

**Tablet Compatibility**

Involves providing portable access to the application via a tablet-like device. Providing portable access to the web application will ensure that Patrol Officers are able instantaneously log and retrieve data when issuing citations. Mobility is imperative in recording on-the-spot violations. For mobile and tablet users that have data stored on the database, portability is important for their convenience and to ensure their access to records or form submissions via their device. Failure to implement a successful, live mobile iteration would lead to data integrity issues if patrol officers without a live or current connection log the same citation twice, mobility issues if a patrol officer needs to log a violation but is unable to access a way to do so on-site and accessibility issues if users are unable to access the UI to submit forms and access records from their mobile devices and tablets.

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| --- | --- | --- |
| **Story ID** | **Story Title** | **Story Points** |
| **15** | Access - Portable | 2 |
| **17** | Access - Physical Print-out of violation | 4 |
|  | Story Point Sub-Total: | 6 |

**User-specific Access**

Involves granting or restricting access to specific pages according to user role. For security reasons and in the best interest of user confidentiality, restrictions and granted permissions are a necessity for the online database. Department members with the correct authority need access to the data to approve or edit documents whereas other staff and students must be restricted to only their personal records or open forms.

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| --- | --- | --- |
| **Story ID** | **Story Title** | **Story Points** |
| **9** | Exclusive Staff/Student Permit | 16 |
| **10** | Access - Issue Report Forms | 16 |
| **12** | Access - Citation Forms | 16 |
| **13** | Templates w/ Compulsory Fields | 4 |
|  | Story Point Sub-Total: | 52 |

**Release 2**

Delivery date: 26/10/16 [week 13]

Total Story Points: 52

The goals for this release is to link and integrate the developed applications and databases to finalise the development of the Health and Safety Department’s computing solution initiative. This release observes the functionality of the final result.

**Link Back-end to Front-end**

Involves linking the back-end database to the front-end application so that its data can be accessed via the website application. Accessibility to the website application is imperative for all levels of users. College Personnel require the ability to access and submit permit requests, violation forms and H&S incidents to the department, Patrol Officers require access to log violations and department members are required to constantly update and check the details of existing entries. A constant connection is necessary to ensure continual, up-to-date access to the database from the user interface and to prevent duplicitous data.

|  |  |  |
| --- | --- | --- |
| **Story ID** | **Story Title** | **Story Points** |
| **5** | Access - Permit Validity | 4 |
| **14** | Up-to-date Connection | 8 |
| **27** | Regular Edits to H&S Issues | 4 |
| **29** | Dpt Member (H&S) | 8 |
|  | Story Point Sub-Total: | 24 |

**Notification systems**

Involves sending automated notifications and confirmations via the registered preferred method of correspondence to notify recipient of changes in circumstance (new violation, new permit request, overdue payment etc). An automated notification and confirmation design will ensure that communication is effective and succinct for all processes. Informing users during different stages of application aspects will prevent confusion and ensure a greater overall clarity that is imperative to a higher quality user experience. Being notified with a confirmation of completed tasks will also serve to increase overall efficiency as users will not be required to constantly check back at the status of tasks, resulting in a greater fluidity between processes.

|  |  |  |
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| **Story ID** | **Story Title** | **Story Points** |
| **3** | Notification - Permit Approval | 2 |
| **4** | Access - Physical Approved Permit | 1 |
| **6** | Notification - new Violation | 2 |
| **16** | Notification - Digital, to violator | 2 |
| **18** | Notification - new Permit Request | 2 |
| **25** | Automated - Overdue Notification | 2 |
| **26** | Notification - new H&S Issue | 4 |
| **23** | Ensure Physical Permit for Vehicle Owner | 1 |
|  | Story Point Sub-Total: | 16 |

**Payment system**

Involves creating a secure payment system for violation fines with a range of online payment options available. A flexible, multi-optional payment system is vital in ensuring that payments are suited to the users and as such can be completed promptly. Information is obtained from the database to provide a detailed explanation of the cost of the violation. This will prevent confusion for users and lower potential rebuttals in some cases. Security is necessary in providing a safe experience and ensuring confidentiality among users.

|  |  |  |
| --- | --- | --- |
| **Story ID** | **Story Title** | **Story Points** |
| **7** | Access - varied Payment Options | 8 |
| **8** | Detailed Payment System | 4 |
|  | Story Point Sub-Total: | 12 |

**Delivery Schedule**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | Week 13 |
| Sprint 1 | | Sprint 2 | | Sprint 3 | | Sprint 4 | |
| Release 1 | | | | Release 2 | | | |

**Estimated Velocity:** 1.35 **[approx. 135/100]** *(where Sprint 1 is known to be ≈25 hours)*

**Release Plan Update 21/09/2016**

* Release 1 delivery date was corrected from ~~27/09/2016~~ to 21/09/2016
* Release 2 delivery date was corrected from ~~25/09/2016~~ to 26/09/2016
* Story points of ‘Exclusive Staff/Student Permit’ adjusted from ~~2~~ to 16
* Total points of release 1 adjusted from ~~83~~ to 97
* The progress of the Release Plan can be found in the Burndown Chart PDF provided
* The table on the next page is a table for reference for Release Plan 1’s Progress
* For further information on the progress of sprint 1 and 2, refer to Sprint 1 v1.1 and Sprint 2 v1.1

**Future Recommendations:**

For sprint 3 and 4, the use of story points will be re-evaluated, to correspond with the purpose and functionality of user story points. The future sprint plans for 3 and 4 (release 2) will have adjusted story points that are relative and dependent on the value of story point’s e.g. 1 story point = 0.5 hours. Furthermore, they will be adjusted in a manner that will not trivialise the concept of story point, whilst avoiding the interruption of workflow that Team 111 will be partaking.

