**Release and Sprint Plans**

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|  |  |
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Release Plan

# Release 1

Delivery date: Week 9 Total Story Points: 13

Main goal is to develop the website infrastructure and to start integrating databases. With this also comes the development of core website features such as the permit registration and violation reporting features. The Terms of Service is also created and will be a part of the website for potential permit holders to read before applying.

**Registration**

College personnel can apply directly for a permit but only faculty can apply on behalf of the guest.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| 01 | College Personnel Registration | 4 |
| 12 | Premium Permit | 3 |
|  | Story Point Sub-Total: | 7 |

**Violations and ToS**

All permit holders are required to read and accept the Terms of Service before submitting a permit application. Both Patrol officers and college personnel can report OHS hazards but only patrol officers can issue citations (and record).

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| 04 | Record Violations | 4 |
| 07 | Terms Of Service | 2 |
|  | Story Point Sub-Total: | 6 |

# 

# Release 2

Delivery date: Week 13 Total Story Points: 33

The bulk of the permit and citation related features are implemented. This includes issuing and tracking fines, receiving and dealing with hazard reports, and setting up the notification system.

## Permit Registration

Requires all permit registrations to accept ToS and allow them to choose duration of permit

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| 09 | Confirm ToS Agreement | 1 |
| 06 | Choose permit duration | 1 |
|  | Story Point Sub-Total: | 2 |

## OHS administration

Issuing, tracking, and reviewing fines & permits. Also for OHS to manage and resolve hazard reports.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| 03 | Approve/Decline permits | 3 |
| 17 | Review fines on request | 1 |
| 05 | Pay Fines | 4 |
|  | Story Point Sub-Total: | 23 |

# 

# Release 3

Delivery date: week 17 Total Story Points: 38

The goal of Release 3 is to finish all relevant User Stories that are deemed useful to stakeholders but are either too difficult to implement at an earlier stage or do not provide enough benefits compared to the time invested.

## Notification System

A simple notification system that reminds users of expiring permits and for potential weather hazards.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| 13 | Permit expiration reminder | 1 |
| 26 | Weather notification (SMS) | 3 |
|  | Story Point Sub-Total: | 4 |

## Premium Permit

Purchasing and management of premium permit

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| 28 | Transfer Premium | 5 |
| 29 | Add/remove cars to premium | 5 |
|  | Story Point Sub-Total: | 10 |

## Tracking

Users can track an OHS hazard’s progress as well as check parking availability including reserving a spot.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| 14 | Hazard progress | 2 |
| 15 | Parking availability (google maps) | 2 |
| 16 | Reserve parking (google maps) | 2 |
|  | Story Point Sub-Total: | 6 |

## Alternative Applications

Applications to be implemented to improve patrol officer and driver experience.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| 18 | Attach image to citations (mobile app) | 5 |
| 25 | Notification sign | 5 |
|  | Story Point Sub-Total: | 10 |

## User Suggestions

To improve the QoL of permit holders.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| 20 | Book chauffeur | 2 |
| 27 | Hire lockers | 3 |
| 08 | Report Hazards | 3 |
|  | Story Point Sub-Total: | 8 |

## OHS administration

Issuing, tracking, and reviewing fines & permits. Also for OHS to manage and resolve hazard reports.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| 11 | Issue Fines | 3 |
| 21 | Accept/Reject hazard reports | 3 |
| 22 | Access hazard report database | 3 |
| 23 | Log hazard outcome | 3 |
| 30 | Track unpaid fines | 3 |
|  | Story Point Sub-Total: | 15 |

## Permit

Miscellaneous permit features that improve customer and patrol officer QoL (quality of life)

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| 10 | Permit ID code | 2 |
| 19 | Online guest form | 2 |
| 24 | Lost/stolen permit | 1 |
| 02 | Guest registration | 1 |
|  | Story Point Sub-total: | 7 |

# 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 | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week 14 |  | Week 15 |  |  |  |  |  |
| Sprint 5 | | … | |  | |  | |
| Release 3, 4, … | | | | | | | |

## Estimated Velocity:

Sprint Plan

# Sprint 1

Total Story Points:   6                                                                                               Total Hours: 11 3/4

## Current Velocity:

## Story 1: As a student/faculty member I want to have access to a permit registration system so I can request a permit online

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T01** | Create a main page | 2 | 2 |
| **T02** | Create navigation bar which includes Normal or Premium booking options | 1 | 1/2 |
| **T03** | Create a form so that user can put in their personal and vehicle info for normal parking | 1 1/2 | 3 |
| **T04** | Create a form so that user can put in their personal and vehicle info for premium parking | 1 | 3 |
| **T05** | Write code for “submit” button so that the info is transferred directly to database system (PHP action) | 4 | 1 |
| **T06** | Verify story is complete | 1 | 1/2 |
|  | Story Points:                                                                                                Total Hours: | 10 1/2 | 10 |

Story 7: As a parking permit holder I'd like access to a parking ToS so that I'm aware of the QUT parking rules

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T07** | Create hyperlink on navigation bar to the ToS page | 1/2 | 1/2 |
| **T08** | Create ToS page | 1 | 1 |
| **T09** | Verify story is complete | 1/4 | 1/4 |
|  | Story Points:                                                                                                Total Hours: | 1 3/4 | 1 3/4 |

# Sprint 2

Total Story Points: 7                                                                                                 Total Hours:17 1/2

## Current Velocity:

## Story 12: As a parking permit holder I'd like to be able to purchase a premium permit upgrade that guarantees me the same parking spot everyday so that I don't have to look for a new one everytime I park

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T10** | Create a main page | 2 | 1 |
| **T11** | Create navigation bar which includes Premium booking options | 1 | 1/2 |
| **T12** | Create a form so that user can put in their personal and vehicle info for normal parking | 1 1/2 | 1 1/2 |
| **T13** | Create a form so that user can put in their personal and vehicle info for premium parking | 1 | 2 1/2 |
| **T14** | Write code for “submit” button so that the info is transferred directly to database system (PHP) | 4 | 1 |
| **T15** | Verify story is complete | 1 | 1 |
|  | Story Points:                                                                                                Total Hours: | 10 1/2 | 7 1/2 |

## Story 4: As a patrol officer I'd like to be able to record parking/smoking/other violator information so that I can issue fines

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T16** | Create a database system for “citation” | 3 | 2 |
| **T17** | Create a page which has 3 options to report - smoking, parking and other | 1 | 1 |
| **T19** | Create each page for smoking, parking and other report | 2 | 1 |
| **T20** | Create a form on each page (smoking, parking, other) so officers are able to fill in | 4 | 3 |
| **T21** | Connect database to the 3 forms in 3 different pages - smoking, parking and other (PHP) | 3 | 2 |
| **T22** | Verify story is complete | 1 | 1 |
|  | Story Points:                                                                                                Total Hours: | 13 | 10 |

# Sprint 3

Total Story Points:

Total Hours: 18

## Current Velocity:

## Story 3: As an OHS faculty member I want to have access to a current outstanding applications so that I can approve/decline parking permits

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T16 | Create a database system for “outstanding fines” | 3 | 2 |
| T17 | Create a hyperlink on the main page’s footer which links to a secured “outstanding fines” page | 1 | 1/2 |
| T18 | Secure the “outstanding fines” page with password input | 2 | 4 |
| T19 | Create a pop-up page after password input | 2 | 1 |
| T20 | Create a table which retrieves violator’s permit ID, names, description, duration of fine, paid/not (read only) from “outstanding fines” database | 4 | 1 |
| T21 | Verify story is complete | 1 | 1 1/2 |
|  | Story Points:                                                                                                Total Hours: | 13 | 10 |

## Story 9: As an issuer of permits I would like permit recipients to accept the parking ToS during their permit application to reduce the likelihood of violations.

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T21 | Create a check box | 5min | 5min |
| T22 | Create a hyperlink to navigate user to the ToS page | 5min | 5min |
| T23 | Add validation on the check box so that user have to tick the checkbox as agree with the ToS before they proceed the booking | 1 | 1 |
| T24 | Verify story is complete | 1 | 1 |
|  | Story Points:                                                                                                Total Hours: | 1h 10min | 50min |

## Story 5: As a recipient of a fine I would like an online payment system so that I can easily pay my fines.

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T25 | Create a “Fine Payment” page (linked from nav bar) | 1/2 | 1/2 |
| T26 | Create textbox for citation ID and “GO” button | 1/2 | 1/2 |
| T27 | Code “GO” button to retrieve information from database and display user to “fine detail” form and payment option | 4 | 2 |
| T28 | Code “Pay” button to complete payment and link it to outstanding fine database | 3 | 2 |
| T29 | Verify story is complete | 1 | 2 |
|  | Story Points:                                                                                                Total Hours: | 11 1/2 | 7 |

# Sprint 4

Total Story Points:

Total Hours: 14

## Current Velocity:

## Story 17: As a recipient of a fine I would like an easy way to contest and request a review.

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T30 | Fetch data from citation table (database) | 1/2 | 1/2 |
| T31 | Convert retrieved data to string | 1/2 | 1/2 |
| T32 | Put each data (citationID, firstname, lastname, citation type, etc.) to appropriate cells on the table | 2 | 2 |
| T33 | Verify story is complete | 1 | 2 |
|  | Story Points:                                                                                                Total Hours: |  | 7 |

## Story 6: As an academic visitor, I would like to easily apply for a hourly/daily/monthly/yearly permit online so that I can attend events.

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| T30 | Fetch data from citation table (database) | 1/2 | 1/2 |
| T31 | Convert retrieved data to string | 1/2 | 1/2 |
| T32 | Put each data (citationID, firstname, lastname, citation type, etc.) to appropriate cells on the table | 2 | 2 |
| T33 | Verify story is complete | 1 | 2 |
|  | Story Points:                                                                                                Total Hours: |  | 7 |

Burndown Charts

The following two burndown charts shows the amount of estimated time required to complete releases 1 and 2. Release 1 required a larger amount of work compared to release 2 as most of the user stories being handled had difficult acceptance criteria and was vital for setting up for release 2. This results in release 2’s hours being slightly lower in comparison. It should also be mentioned that neither of these two charts capture the amount of time spent resolving issues (bugs) in code when implementing other user stories or other small QoL changes which could almost double the amount of time in sprint 3 & 4. i.e. although recorded that roughly 40 hours was spent on the user stories, another potential 40 hours was also spent resolving issues which could result in 80 hours being spent in sprint 3 & 4.

The final burndown chart shows the amount of story points being completed from the start of the project all the way to the end of sprint 4. This shows the user story progress more accurately in comparison to the other burndown chart which only displays the amount of work committed. So in conclusion, this burndown chart shows the progress while the other two show amount of effort spent on each release.