**Release and Sprint Plans**

**Team Number 35**

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Tutor: Benjamin Saljooghi, 5pm Thursday.

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Release Plan

# Release 1

Delivery date: Week 9 Total Story Points: 35

This release aims to provide a working website with a sturdy user interface, implementing navigation capabilities throughout all related pages of the website that allow a user to access all required and authorised information. Along with the user interface, client permissions and access levels will be created and set for their related user base: property manager (David), property owner, staff, tenant and prospective tenant accounts will be created to ensure the website can deliver value upon the first release.

## Basic User Interface with Client Permissions and Access

The user interface is necessary as it will provide the tools that a user requires to navigate through the website. Property Listings will be added for prospective tenants to browse through.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| 01 | User Interface | 5 |
| 02 | Property Listings | 6 |
|  | Story Point Sub-Total: | 11 |

## Account Creation and Property Listings

Client permissions and access have been added to this release as it is important for the client to have full functionality when using the website, as he is the only one capable of entering/updating/deleting property data. Staff and tenants will be allowed to create their accounts and enter/access information pertaining to their access level. Staff may manage properties they have been assigned to, whilst details of tenants and the properties they are renting can be recorded and retrieved. Account creation and account login for prospective tenants will also be available to allow for inspections to be created in the second release.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| 03 | Property Manager’s Profile and Permissions | 5 |
| 04 | Property Owner Profile and Permissions | 3 |
| 05 | Tenant Profile and Permissions | 3 |
| 06 | Staff Profile and Permissions | 3 |
| 07 | Account Login | 6 |
| 08 | Account Creation for Prospective Tenants | 4 |
|  | Story Point Sub-Total: | 24 |

# Release 2

Delivery date: Week 13 Total Story Points: 34

In release 2 we will be providing greater ease of use for the user by creating a search engine for rental properties listed on the website. Options to register for an inspection, and imagery of each rental will be present. The main goal is to create a working search algorithm with criteria that is adjustable by the user, and a system where the staff/client of the website can create/register inspection times for the properties. Once this is accomplished, all ‘Must’ goals of the MoSCoW formula have been complete, and any features to be added from here are either ‘Could’ or ‘Should’ features. In this release, additional features include user identity validation, to ensure that inspection registration requests are legitimate, and the property watch and waitlist feature, which allows a user to track a property that they are interested in and be notified when any change may occur related to said property. Property owners will be given the ability to upload images of properties directly, lease information can be requested from the website by current tenants and lastly, the website will be linked to gumtree advertisements created by the property manager.

## Ease of Use and Inspections

Creating search criteria that allows the user to adjust the way they search for properties. E.g. by cost per week, location, furnished and unfurnished. Creation of inspection times by staff will be implemented. Creation/registration of inspection times will be implemented, to allow users to book an inspection time for themselves. Finally, images of properties will be available to allow users to glimpse at properties online before deciding on whether they are interested.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| 09 | Search Criteria | 5 |
| 10 | Creating Inspection Times | 4 |
| 11 | Registering for Inspection | 2 |
| 12 | Property Images | 3 |
|  | Story Point Sub-Total: | 14 |

## Email, Security and Watching Properties

Email notifications will be available so that users can receive notifications via specified email addresses when properties that may interest them become available. These notifications will likely be tied to the property wait and watch list features. User identity validation will be included which will ensure that those who sign up/register for inspections are legitimate users to avoid having staff’s time wasted by fake inspection requests. Property watch lists will be implemented which will allow users to watch and be notified when changes in the state of the properties they are watching occur. This will allow users to keep track of properties they are interested in. Property waitlists will notify users when a property comes on the listing which matches their preferred criteria.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| 13 | Email Notifications | 2 |
| 14 | User Identity Validation | 2 |
| 15 | Property Watch list | 4 |
| 16 | Property Waitlist | 4 |
|  | Story Point Sub-Total: | 12 |

## Property Owner Image Uploads, Lease Information and Advertisement Locations

Property owners will also be given permission to upload images of properties they own, upon review of staff members, so that they may display their preferred images to represent their property. Current tenant lease information will be available to them on the website (private information) so they can track when rent payments are due. Having this information on the website will save the tenant many phone calls and overdue rent payments. Advertisement locations (Amazon.com) will host adds that show off properties from the webpage. This will attract those looking to rent.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| 17 | Uploading Images | 3 |
| 18 | Current Tenant Lease Information | 4 |
| 19 | Advertisement Location | 1 |
|  | 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 | | Sprint 3 | | Sprint 4 | |
| Release 1 | | | | Release 2 | | | |

## Estimated Velocity for entire release:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Sprint 1 | Sprint 2 | Sprint 3 | Sprint 4 |
| Story Points | 16 | 19 | 16 | 15 |
| Estimated Hours | 84 | 100 | 82 | 84 |
| Story Points Derived from Estimated Hours  (Estimated hours/5) | 17 (16.8) | 20 | 16 (16.4) | 17 (16.8) |
| Estimated Average Velocity  (Story Points/Sprint Iteration) | 17 | 18 (18.5) | 18 (17.6) | 17 (17.5) |

Velocity Estimation per: <https://www.scrumalliance.org/community/articles/2014/february/velocity>

Sprint Plan

# Sprint 1

Total Story Points: 16 Total Hours: 84

## Current Velocity: *Undefined*

Estimated Velocity: 17.

## Story 1: User Interface

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Create a main page | 6 |  |
| 2 | Create header to be implemented on each page | 6 |  |
| 3 | Write test cases | 5 |  |
| 4 | Create buttons that link to required pages from main page | 4 |  |
| 5 | Write code to navigate between pages | 5 |  |
| 6 | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 5 Total Hours: | 27 |  |

## Story 2: Property Listings

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Create a page for property listings as a whole | 6 |  |
| 2 | Create a page for individual listings | 6 |  |
| 3 | Write test cases | 5 |  |
| 4 | Create a database to store property listing information | 3 |  |
| 5 | Implement a scrollbox for property listings on main page | 2 |  |
| 6 | Implement a scrollbox for property listings on the property listing page | 2 |  |
| 7 | Write code to filter property listings by specific criteria | 6 |  |
| 8 | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 6 Total Hours: | 31 |  |

## Story 3: Property Manager Profile and Permissions

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Create a page for the property manager | 6 |  |
| 2 | Write test cases | 5 |  |
| 3 | Write code to allow property manager to add properties to listings database and page | 3 |  |
| 4 | Write code to allow property manager to edit details of properties currently listed from their profile | 3 |  |
| 5 | Write code for a custom UI for a property manager | 5 |  |
| 6 | Write code to allow property manager to pass permissions on to selected individuals | 3 |  |
| 7 | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 5 Total Hours: | 26 |  |

# Sprint 2

Total Story Points: 19 Total Hours: 100

## Current Velocity: *Undefined*

Estimated Velocity: 18.

## Story 4: Property Owner Profile and Permissions

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Create a page for property owners | 6 |  |
| 2 | Write test cases | 5 |  |
| 3 | Write code to allow property owner to assign a manager to their property | 3 |  |
| 4 | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 3 Total Hours: | 15 |  |

## Story 5: Tenant Profile and Permissions

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Create a page for tenants | 6 |  |
| 2 | Write test cases | 5 |  |
| 3 | Write code to allow tenants to edit their personal details | 3 |  |
| 4 | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 3 Total Hours: | 15 |  |

## Story 6: Staff Profile and Permissions

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Create a page for staff | 6 |  |
| 2 | Write test cases | 5 |  |
| 3 | Write code to allow staff to edit their personal details | 3 |  |
| 4 | Write code to allow staff to view details on current and prospective tenants | 3 |  |
| 5 | Verify story is complete (acceptance test) | 1 |  |
| 6 | Story Points: 3 Total Hours: | 18 |  |

## Story 7: Account Login

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Create a login textbox and buttons to be implemented on the header of every page | 3 |  |
| 2 | Write test cases | 5 |  |
| 3 | Create database to store login credentials | 3 |  |
| 4 | Write code to allow database to be modified by property manager | 3 |  |
| 5 | Write code to censor passwords | 2 |  |
| 6 | Write code for data security - Hashing | 6 |  |
| 7 | Implement data encryption | 3 |  |
| 8 | Write code to redirect user to appropriate page after login | 2 |  |
| 9 | Write code to sign out user | 2 |  |
| 10 | Write code to timeout user after period of inactivity | 2 |  |
| 11 | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 6 Total Hours: | 32 |  |

## Story 8: Account Creation for Prospective Tenants

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Create a page for account registration | 6 |  |
| 2 | Write test cases | 5 |  |
| 3 | Create a ‘register’ button to be implemented on the header of the main and property listing page | 1 |  |
| 4 | Write code to add tenant account entries to login credentials database | 3 |  |
| 5 | Write code to ensure minimum amount of information is entered on account creation | 2 |  |
| 6 | Write code to redirect user to page visited prior to registering | 2 |  |
| 7 | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 4 Total Hours: | 20 |  |

# Sprint 3

Total Story Points: 16 Total Hours: 82

## Current Velocity: *Undefined*

Estimated Velocity: 18.

## Story 9: Search Criteria

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Create a search textbox to be implemented on the main page and the header of each page | 3 |  |
| 2 | Write test cases | 5 |  |
| 3 | Write code to retrieve search terms from property listing database based on user entered key words | 8 |  |
| 4 | Write code to retrieve search terms from property listing database based on developer defined fields | 8 |  |
| 5 | Write code to redirect/refresh to relevant/current page after search terms have been entered | 3 |  |
| 6 | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 5 Total Hours: | 28 |  |

## Story 10: Creating Inspection Times

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Create inspections page | 6 |  |
| 2 | Write test cases | 5 |  |
| 3 | Create button on staff profiles to create inspection times | 1 |  |
| 4 | Write code to redirect staff to inspections page on associated button press | 3 |  |
| 5 | Write code to ensure that inspection times adhere to relevant restrictions | 3 |  |
| 6 | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 4 Total Hours: | 19 |  |

## Story 12: Property Images

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Create database to store images – Either external host addresses or images themselves | 3 |  |
| 2 | Write test cases | 5 |  |
| 3 | Add pictureboxes to each listing | 2 |  |
| 4 | Write code to retrieve relevant images for listed properties | 3 |  |
| 5 | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 3 Total Hours: | 14 |  |

## Story 13: Email Notifications

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Create automated email service | 3 |  |
| 2 | Write test cases | 5 |  |
| 3 | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 2 Total Hours: | 9 |  |

## Story 14: User Identity Validation

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Write code to throw exception when user attempts to book inspections without being logged in | 2 |  |
| 2 | Setup automated emails for inspections | 3 |  |
| 3 | Write code to verify user email addresses | 3 |  |
| 4 | Write code to send automated emails to verify inspection times when a user registers for an inspection | 3 |  |
| 5 | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 2 Total Hours: | 12 |  |

# Sprint 4

Total Story Points: 15 Total Hours: 84

## Current Velocity: *Undefined*

Estimated Velocity: 17.

## Story 15: Property Watchlist

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Create Watchlist page | 6 |  |
| 2 | Create database for user Watchlist entries | 3 |  |
| 3 | Write test cases | 5 |  |
| 4 | Write code to retrieve Watchlist entries from database | 3 |  |
| 5 | Write code to send automated emails when listed property’s state changes per user specified criteria | 3 |  |
| 6 | Create button on tenant profile that redirects to Watchlist page | 2 |  |
| 7 | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 4 Total Hours: | 23 |  |

## Story 16: Property Waitlist

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Create Waitlist page | 6 |  |
| 2 | Create database for user Waitlist | 3 |  |
| 3 | Write test cases | 5 |  |
| 4 | Write code to retrieve Waitlist entries from database | 3 |  |
| 5 | Write code to send automated emails when a list property matches user specified criteria | 3 |  |
| 6 | Create button on tenant profile that redirects to Waitlist page | 2 |  |
| 7 | Verify story complete (acceptance test) | 1 |  |
|  | Story Points: 4 Total Hours: | 23 |  |

## Story 17: Property Owner Image Upload Permissions

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Create image upload page | 6 |  |
| 2 | Write test cases | 5 |  |
| 3 | Write code to allow database entries to property listing database for uploaded images | 3 |  |
| 4 | Create button on property owner profile for image uploads | 1 |  |
| 5 | Create button that redirects to image upload page on property owner profile | 2 |  |
| 7 | Write code to allow captions on images | 1 |  |
|  | Story Points: 3 Total Hours: | 18 |  |

## Story 18: Current Lease Information

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Create current lease information page | 6 |  |
| 2 | Write test cases | 5 |  |
| 3 | Create current tenant lease information database | 3 |  |
| 4 | Create button to retrieve tenant information on tenant profile | 2 |  |
| 5 | Write code to retrieve tenant information from database | 3 |  |
| 6 | Verify story is complete (acceptance test) | 1 |  |
|  | Story Points: 4 Total Hours: | 20 |  |