

RAD Master Document

RAD DEVELOPMENT

The Imposters | Rapid App Development | 05/11/2020 - 10/12/2020

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Sprint 1

Team Name : The Imposters

Scrum Master (#1) : Lisa Mckenna

Team Member (#2) : Swen Lee

Team Member (#3) : Daniel Ewen

Meeting Minutes

Meeting Minutes for Sprint One

Location : Murdoch T101 Office

Date : 5th November 2020

Time : 9:00 a.m.

# Meeting Minutes

Items discussed during team meeting in sprint one

## Agenda Items

1. Discuss design options (adaptive or responsive)
2. Discuss client requirements
3. Allocate tasks:
   * Develop master document
   * Set up GitHub repository
   * Develop analysis report
   * Develop project management plan
   * Develop multi-platform report
   * Develop software testing plan
   * Update website according to client requirements
   * Finalise documentation (update master document)

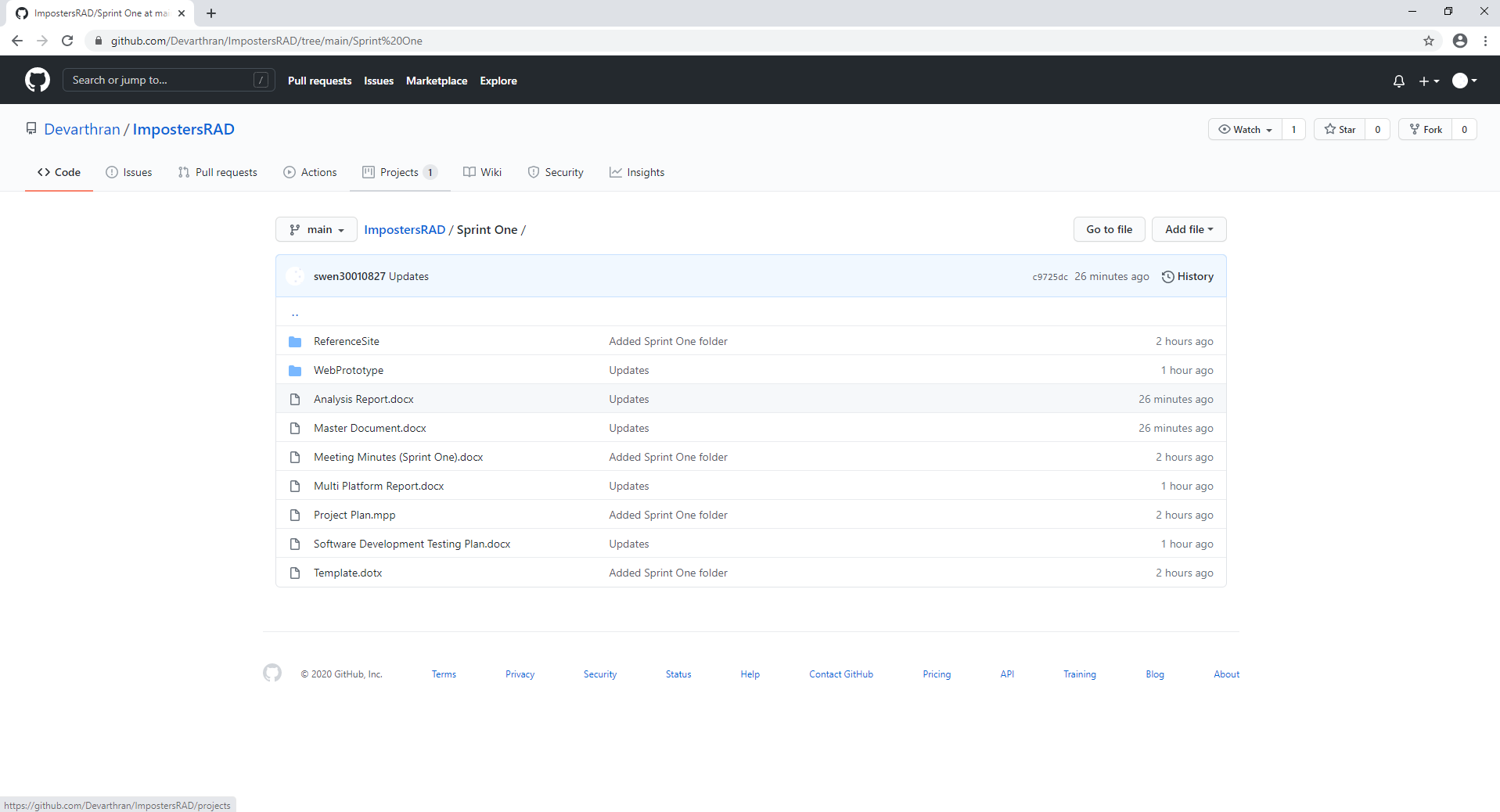
|  |  |  |  |
| --- | --- | --- | --- |
| Action Items | Owner(s) | Deadline | Status |
| Develop Master Document | Swen | 11/11/2020 | In Progress |
| Set up GitHub Repository | Daniel | 05/11/2020 | Complete |
| Develop Analysis Report | Swen | 11/11/2020 | In Progress |
| Develop Project Management Plan | Team | 05/11/2020 | Complete |
| Develop Multi-platform Report | Lisa | 11/11/2020 | In Progress |
| Develop Software Testing Plan | Daniel | 11/11/2020 | In Progress |
| Update website | Daniel | 11/11/2020 | In Progress |
| Finalise Documentation | Swen | 11/11/2020 | Pending |

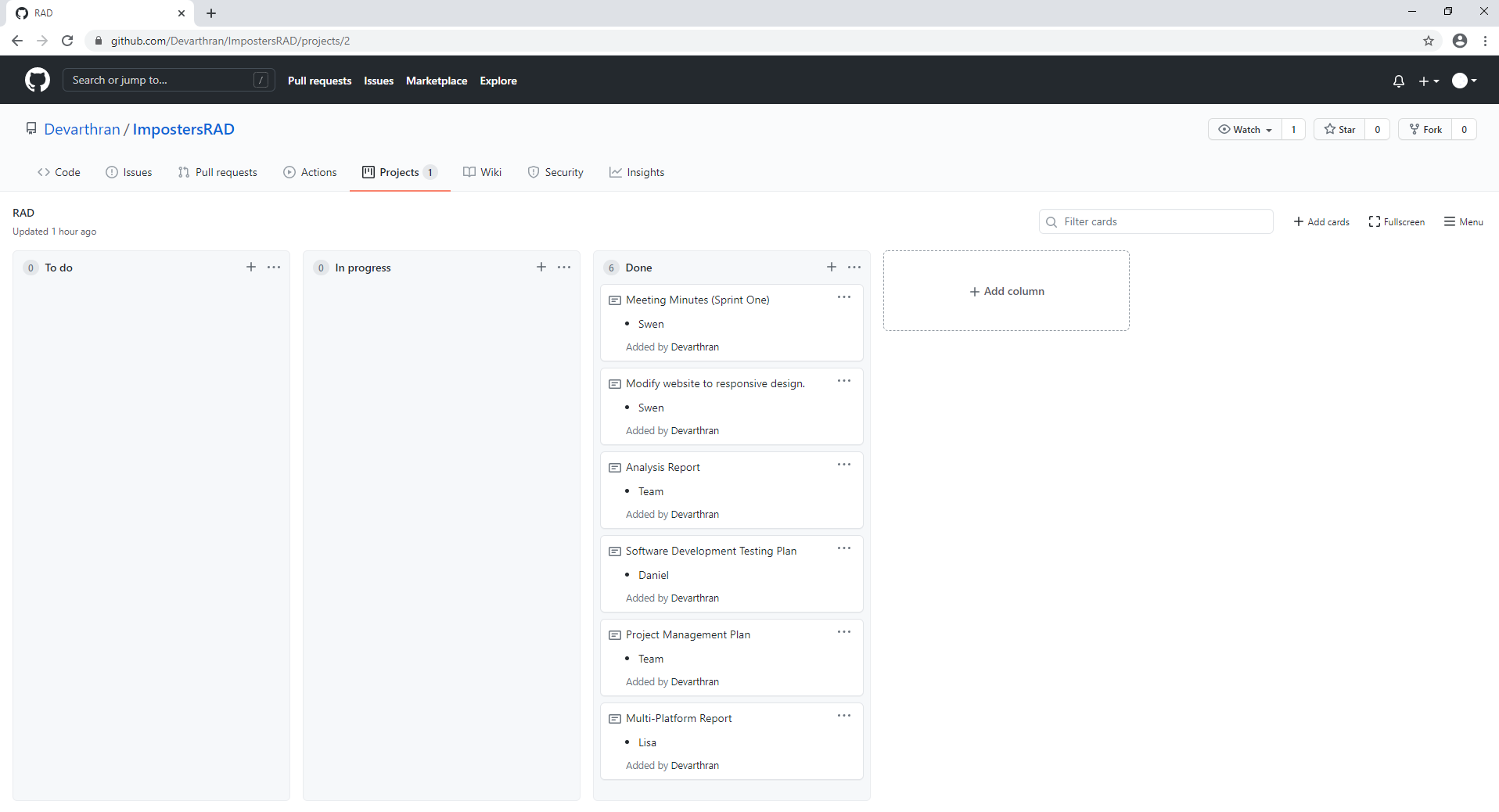
Source Control Snapshot and History

Contains snapshot for github as well as the progress of the work

# Source Control Snapshot

Below is the snapshot for of our GitHub repository. Click [here](https://github.com/Devarthran/ImpostersRAD) to access it.

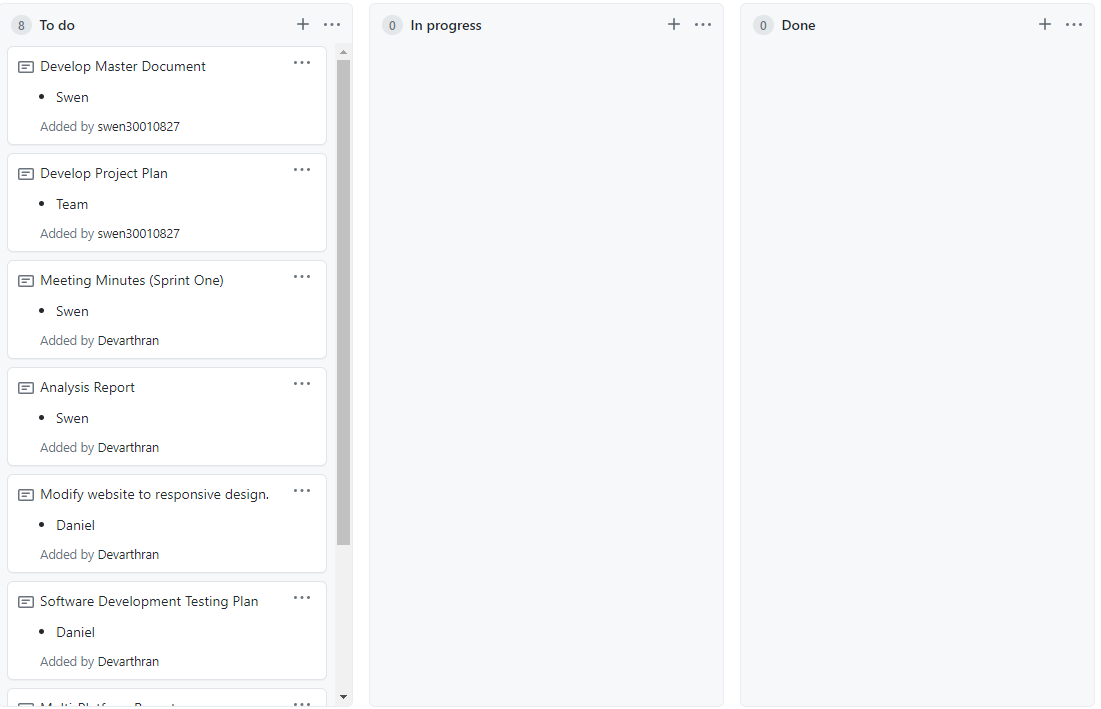
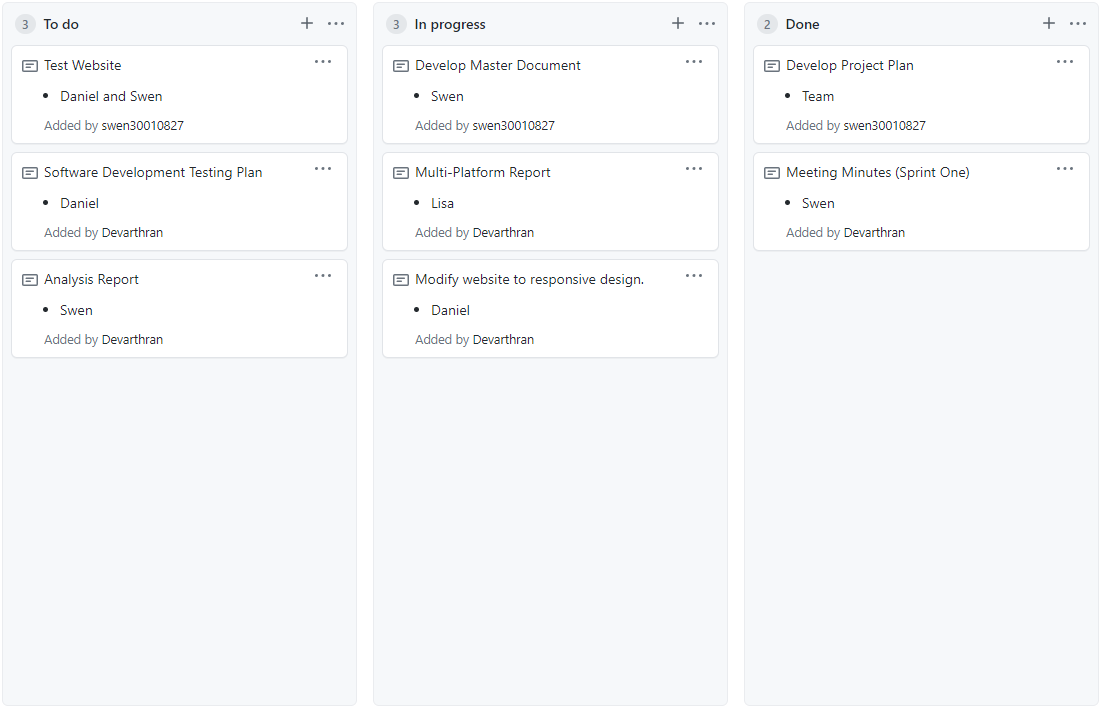




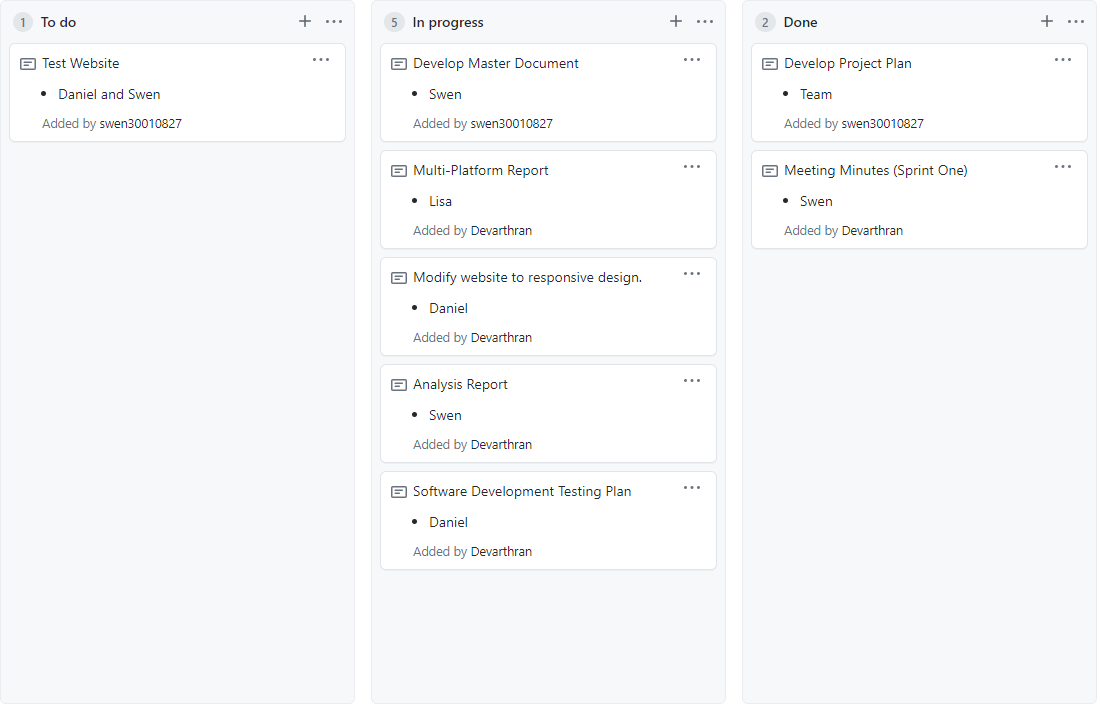
# Source Control History

|  |  |
| --- | --- |
| Date | Evidence |
| 05/11/2020 (Thursday) | Ref 1 |
| 06/11/2020 (Friday) | Ref 2 |
| 09/11/2020 (Monday) | Ref 3 |
| 10/11/2020 (Tuesday) | Ref 4 |
| 11/11/2020 (Wednesday) | Ref 5 |

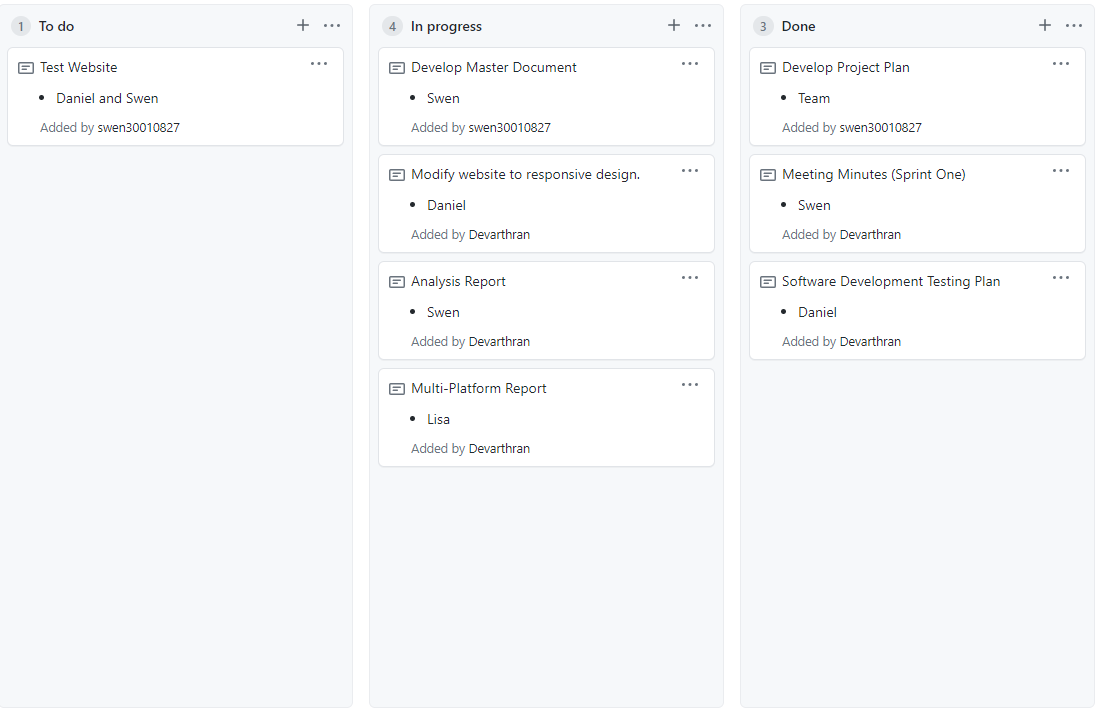
Ref 1

1. 
2. 

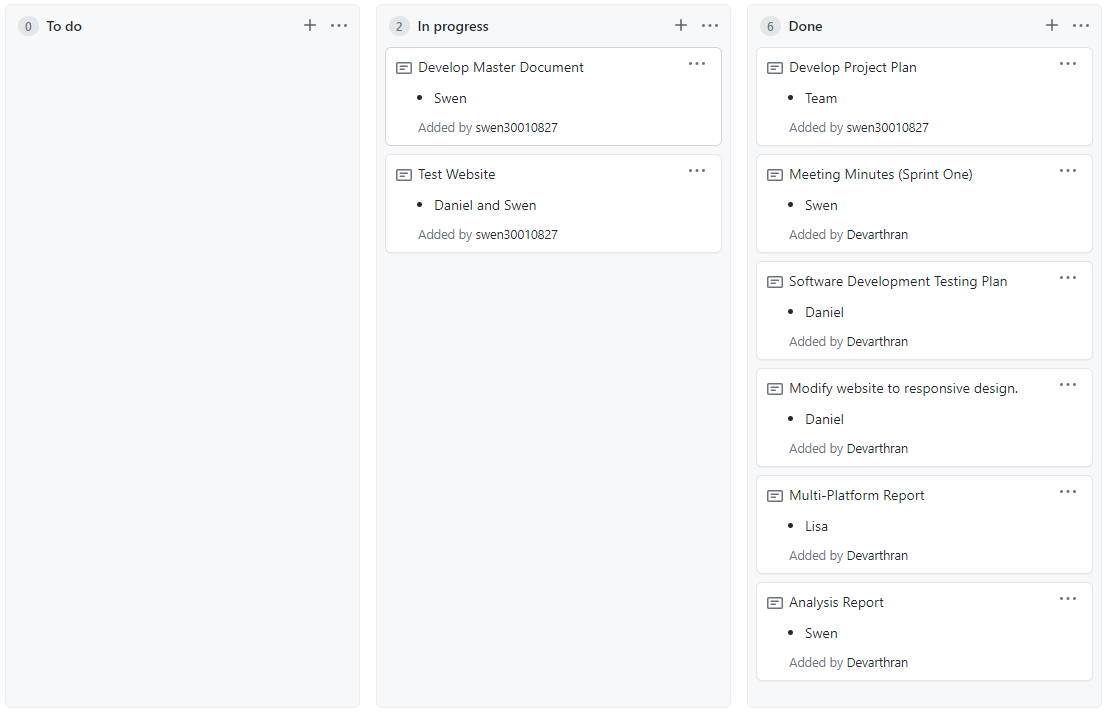
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1. 

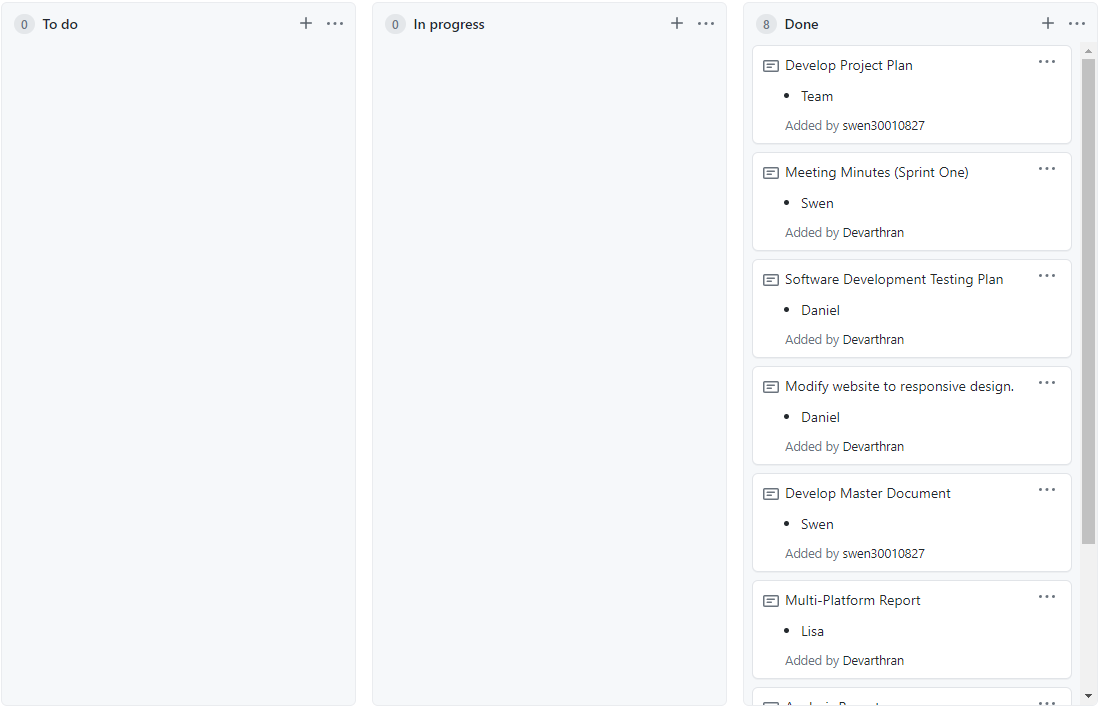
Ref 3

1. 

Ref 4

1. 

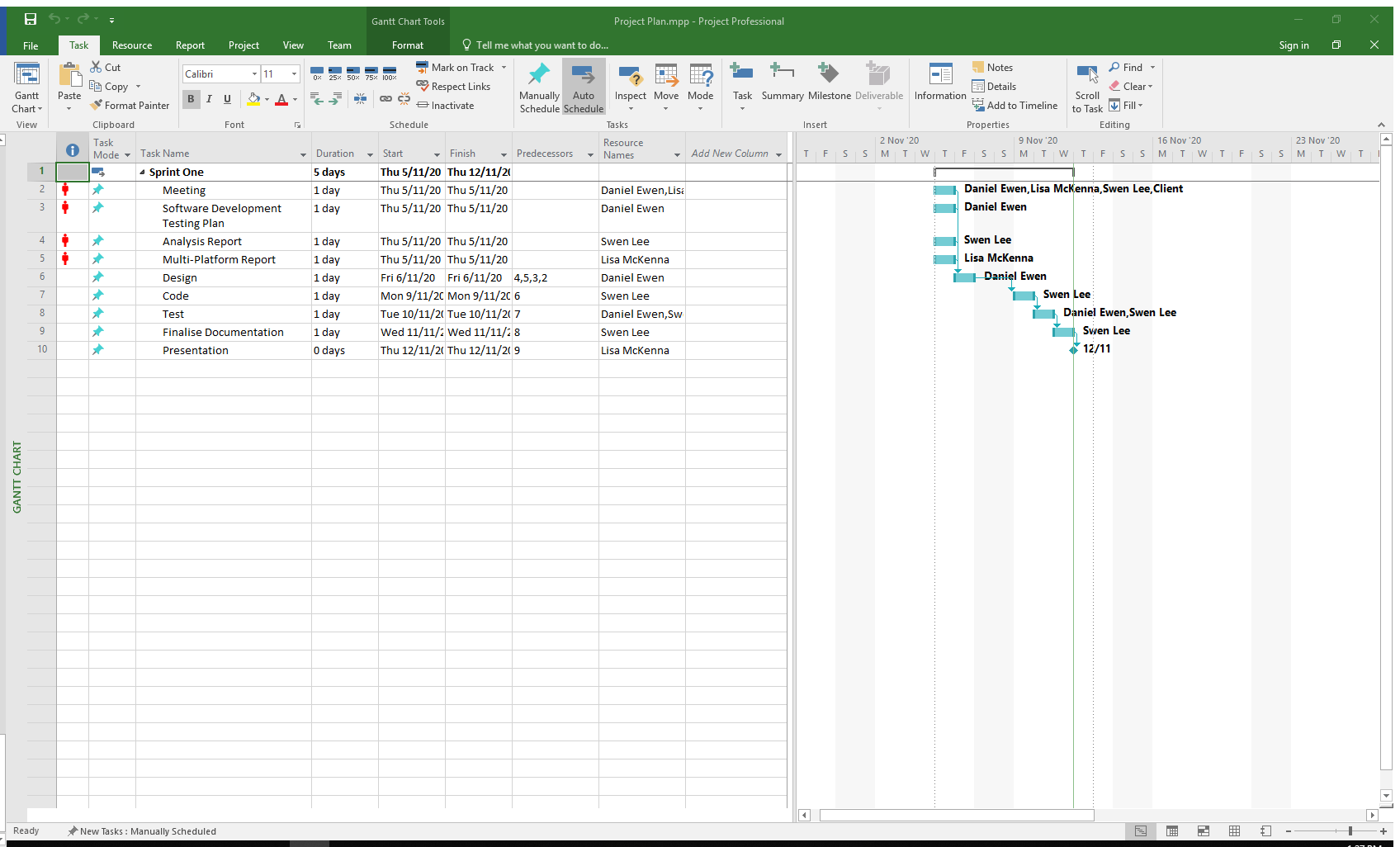
Ref 5

1. 

Project Management Plan

Contains the project management plan for sprint one

# Project Management Plan Snapshot



Software Development Testing Plan

Develop a test plan for the project

CHANGELOG

|  |  |  |  |
| --- | --- | --- | --- |
| Version # | Date of change | Change by | Outline |
| 1.0 | 5/11/2020 | Daniel Ewen | Test Plan Creation |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Introduction

## Scope

### In Scope

Features to be tested:

* Application design is responsive
* User Interface
* Interface responds in real-time
* Database migrates correctly to the new design.

### Out of Scope

Features that won’t be tested:

* Movie database

## Quality Objective

Our team’s objective is to deliver a working prototype to the client with the following qualities:

* AUT[\*](#_Terms_/_Acronyms) must conform to the client’s requirements for each sprint.
* AUT must meet the client’s quality standards.
* Bugs/defects are tested and fixed before the application is deployed for the client.
* The AUT meets coding and commenting standards defined by each coding language standard.

## Roles and Responsibilities

|  |  |
| --- | --- |
| Role | Description |
| Developers | Research, design, implement and manage software programs |
| Test Manager | Organise and control the testing process to deliver a high-quality software |
| QA analyst | Test software on other computers to ensure they are functioning accurately |
| Business Analyst | Connect IT and business using data analytics and determine client requirements |
| Bug Triage | Evaluate, prioritise and assign resolution defects |

# Test Methodology

## Overview

Our team will utilize the RAD[\*](#_Terms_/_Acronyms) test methodology throughout this project. Each sprint will seek to develop, test, and deliver a fully functioning prototype to the specification of the client.

## Test Levels

Our testing team will implement the following test types for this project:

* Exploratory Testing
* Functional Testing
* Accessibility Testing
* Compatibility Testing
* Integration Testing
* System testing
* User Acceptance Testing (UAT)

## Bug Triage

Our process for bug/defect triage is as follows:

* **Bug discovered:** Bug report is added to the bug list. For this our team will use the issue tracker built into GitHub, detailing the bug.
* **Investigate:** Developers read the report and try to replicate the bug. If replication occurs, the bug can then be prioritized.
* **Bug added to backlog:** Bug is awaiting resolution during sprint.
* **Resolved:** Bug is fixed during development and the issue is closed.

## Suspension Criteria & Resumption Requirements

During testing, should any test return more than a 30% fail the following should occur:

* Testing ceases
* Test case / module being tested investigated for design flaws
* If bugs are discovered, add them to the triage queue.
* Once the bug has resolved in the triage queue, run the test again.

## Test Completeness

Testing will be complete when:

* The AUT has been deemed to have 100% test coverage,
* All designed test cases return with a pass,
* All current bugs/issues have been resolved,
* The client is satisfied with the current condition of the AUT and has signed off on its deployment.

# Test Deliverables

|  |
| --- |
| Deliverables |
| Test Plan |
| Test Cases with validation |
| Requirements |
| Analysis Report |
| Bug Reports |
| Client Sign-off |

# Resource & Environment Needs

## Testing Tools

* **Chromium developer tools:** Exploratory testing and during development.
* **PHP\_CodeSniffer:** Checks the PHP code for syntax and standards errors.

## Test Environment

### Hardware Environment

A modern development workstation with the following minimum specifications:

|  |
| --- |
| Part |
| Intel CPU 4-cores or more with hyperthreading |
| 16GB DDR4 RAM 2600MHz |
|  |

### Required Software

|  |  |
| --- | --- |
| Software | |
| Xampp | Local webserver and database hosting |
| Visual Studio Code | Code and application development |
| GitHub Desktop | Source Control |

# Terms / Acronyms

|  |  |
| --- | --- |
| Term / Acronym | Definition |
| RAD | Rapid Application Development |
| AUT | Application Under Test |

Analysis Report

describes CITEMS Rules, Quality Assurance Practices and Acme’s Development Requirements

# CITE Business Rules

Describes the CITE Business Rules for Software Development

At CITEMS we adhere to our business rules which consist of:

* Prioritising client interests
* Operate in an ethical manner in regards to the regulations
* Uphold accountability during software development
* Always strive to achieve a better solution to a client’s issues
* Prioritise firm and client interests
* Be fair competitors and not degrade other firms
* Maintain high ethical standards
* Abide by coding policies and standards

# CITE Managed Services QA

CITE Managed Services (CITEMS) Quality Assurance Practices

According to the [CITEMS](http://www.citems.com.au/?page_id=84) website, our organisation has launched processes which evaluate the project’s performance as well as ensure that quality standards are being followed and that the deliverables meet the client’s requirements.

Some of our quality assurance practices include:

* Conduct full-cycle quality assurance testing
* Document and code reviews
* Defect tracking
* Configuration management
* Process monitoring
* Risk management

CITEMS conducts quality assurance throughout the development lifecycle with our QA team members engaged in every stage. A standard QA lifecycle at CITEMS will involve the following stages:

1. Initiation and Planning – Project specification analysis, test plan explanation and team assignment
2. First review – Early testing of first development deliverables, refining test plan as well as test items (if required)
3. Iteration audits – Ongoing test of intermediate iteration builds
4. Final verification and validation – Final product testing to guarantee bespoke quality and readiness for deployment

# A.E. Development Requirements

Acme Entertainment Pty Ltd Development Requirements

* Acme Entertainment have commissioned a prototype movie database, however, this application is required to be updated to meet the following requirements:
* Able to use across all major digital platforms

Multi-Platform Report

Describes the difference between adaptive and responsive design

# Responsive vs Adaptive

Responsive sites and adaptive sites are the same in that they both change appearance based on the browser environment they are being viewed on.

Responsive websites respond to the bowser no matter what the browser width may be, the site adjusts its layout (and perhaps functionality) in a way that is optimised to the screen.

Adaptive websites are only concerned about the browser being a specific width, at which point it adapts the layout.

The simplest way to view this is the difference between smooth and snap design. Responsive design is smooth because the layout fluidly adjusts regardless of what device it is viewed on. Adaptive design, on the other hand, snaps into place because the page is serving something different because of the browser or device it is viewed on.

Here’s an image comparing responsive and adaptive designs from [Medium](https://popart-studio.medium.com/fluid-vs-adaptive-vs-responsive-design-62de51e036bd).



In the example above the responsive picture flows with the environment whereas the adaptive snaps into place at a defined environment.

Responsive design is both fluid and flexible which is a means of becoming device agnostic in the sense that it seeks to create an optimised experience for any screen.

Essentially, we challenge ourselves to create sites that shift context according to how a site is being consumed on any given occasion.

Compare that with an adaptive way of thinking, which is neither fluid nor flexible, but looks for specific points at which to adapt. While it might be difficult to adapt a website on all the various devices being used today.

Both responsive and adaptive designs are similar in the way that they are methods for dealing with the reality that websites are often viewed on different devices in different contexts. They just go about this in different ways.

(Graham, 2015)

# Our Decision

Our team’s recommendation is the responsive design, where we have produced a prototype application. As technology is ever changing and moving at a rapid pace, the responsive prototype is delivering a design that is both fluid, flexible and able to adjust its layout and perhaps its functionality in a way that it is optimised to the screen, there for, it can be view on current and future devices. In turn this will future proof the business where it is able grow exponentially

Code Testing

use php\_codesniffer to test and fix errors on the website

# PHP\_CodeSniffer Snapshots

index.php

1. Text

   Description automatically generated
2. Graphical user interface

   Description automatically generated

search.php

1. Text

   Description automatically generated
2. A picture containing timeline

   Description automatically generated

genre\_scr.php

1. Text

   Description automatically generated
2. A picture containing text

   Description automatically generated

rating\_scr.php

1. Text

   Description automatically generated
2. Graphical user interface, text

   Description automatically generated

top10.php

1. Text

   Description automatically generated
2. Graphical user interface, text

   Description automatically generated

Sprint 2

Team Name : The Imposters

Scrum Master (#1) : Swen Lee

Team Member (#2) : Daniel Ewen

Team Member (#3) : Lisa Mckenna

Meeting Minutes

Meeting Minutes for Sprint Two

Location : Murdoch T101 Office

Date : 12th November 2020

Time : 12:00 p.m.

# Meeting Minutes

Items discussed during team meeting in sprint two

## Agenda Items

1. Discuss software review plan
2. Discuss client requirements
3. Allocate tasks:
   * Update GitHub repository
   * Update project management plan
   * Develop performance report
   * Develop software review plan
   * Update software testing plan
   * Update website according to client requirements
   * Finalise documentation (update master document)

|  |  |  |  |
| --- | --- | --- | --- |
| Action Items | Owner(s) | Deadline | Status |
| Update GitHub repository | Daniel | 12/11/2020 | Complete |
| Update Project Plan | Team | 12/11/2020 | Complete |
| Performance Report | Swen | 18/11/2020 | In Progress |
| Software Review Plan | Lisa | 18/11/2020 | In Progress |
| Update Software Testing Plan | Daniel | 18/11/2020 | In Progress |
| Update Website | Daniel | 18/11/2020 | In Progress |
| Finalise Documentation | Swen | 18/11/2020 | Pending |

Source Control Snapshot and History

Contains snapshot for GitHub as well as the progress of the work

# Source Control Snapshot

Below is the snapshot for out GitHub repository. Click [here](https://github.com/Devarthran/ImpostersRAD/tree/main/Sprint%20Two) to access it.

A picture containing text, screenshot, computer

Description automatically generated

Graphical user interface, application, Teams

Description automatically generated

# Source Control History

|  |  |
| --- | --- |
| Date | Evidence |
| 12/11/2020 (Thursday) | Ref 1 |
| 13/11/2020 (Friday) | Ref 2 |
| 16/11/2020 (Monday) | Ref 3 |
| 17/11/2020 (Tuesday) | Ref 4 |
| 18/11/2020 (Wednesday) | Ref 5 |

Ref 1

1. Graphical user interface, application, Teams

   Description automatically generated
2. Graphical user interface, application

   Description automatically generated

Ref 2

1. Graphical user interface, application

   Description automatically generated

Ref 3

1. Graphical user interface, application

   Description automatically generated

Ref 4

1. Graphical user interface, application

   Description automatically generated

Ref 5

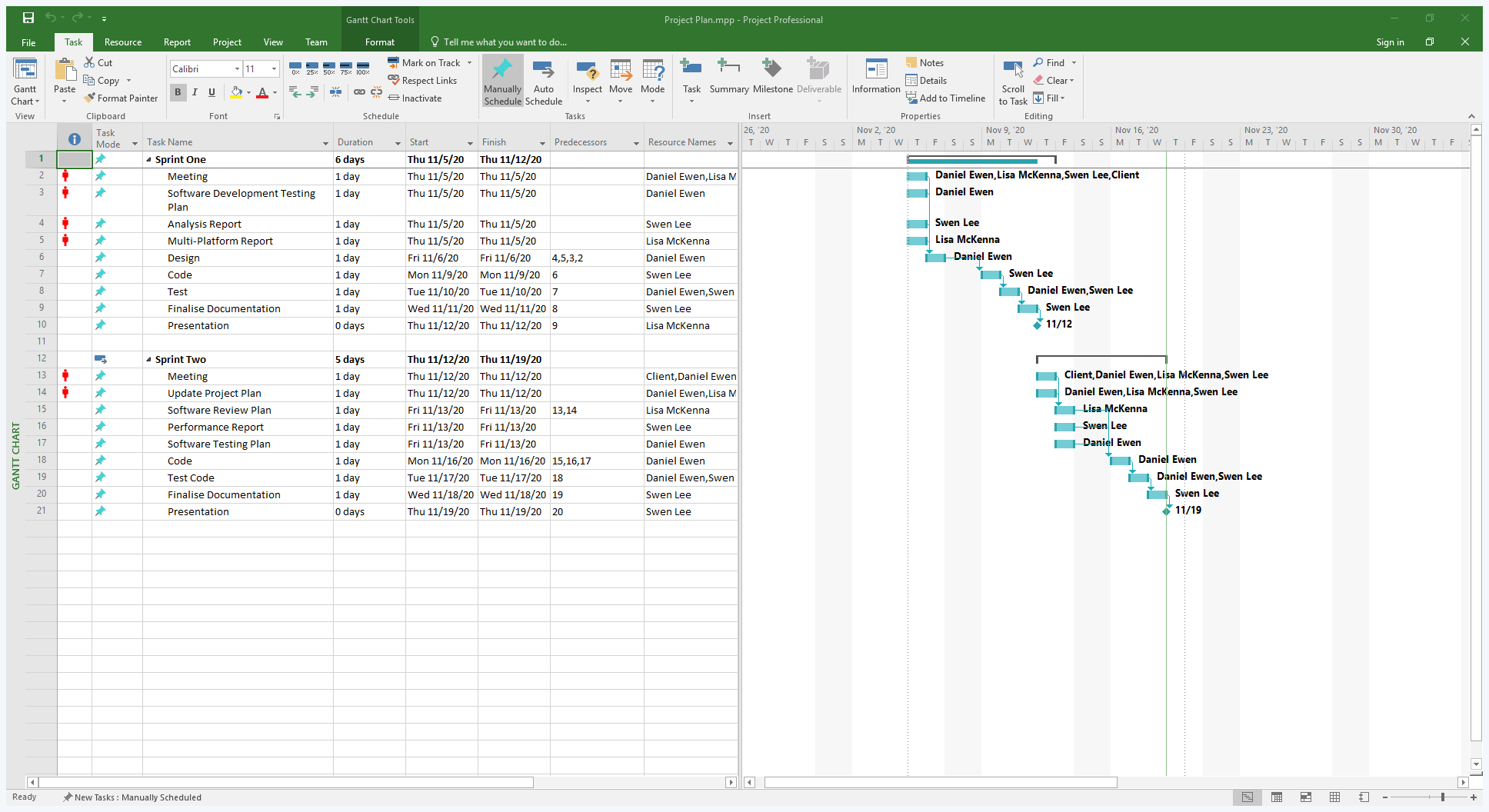
1. Graphical user interface, application, Word

   Description automatically generated

Project Management Plan

Contains the project management plan for sprint Two

# Project Management Plan Snapshot



Software Review Plan

Develop a plan to review a website

# Review Checklist

|  |  |  |
| --- | --- | --- |
| ID | Description | Status |
| 1 | Website has a front end |  |
| 2 | Website has a search page |  |
| 3 | Website searches according to conditions selected |  |
| 4 | User is able to sign up to subscribe for newsletter or notifications |  |
| 5 | Website has a profile page for users to sign in and change their subscription |  |
| 6 | User is able to unsubscribe as they please |  |
| 7 | User is able to rate the movies |  |
| 8 | Website displays a graph with the top 10 rated movies |  |
| 9 | Graph refreshes automatically |  |
| 10 | Website has a login page for administrators |  |
| 11 | Administrators are able to add, edit and delete users |  |
| 12 | Administrator passwords are secured |  |
| 13 | Administrator passwords pass a minimum complexity test |  |

Performance Report

Demonstrates the performance of the website has been measured

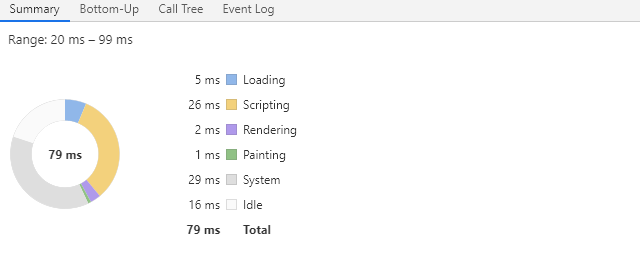
# Website Performance

The website’s performance was tested using the performance tool in Google Chrome’s Developer tools. The Chrome performance monitor records the website’s performance metrics while the page is running or reloading. The user is able to review and interact with snapshots of recordings. After a recording is taken, a graph is displayed with the summary of the website’s performance.

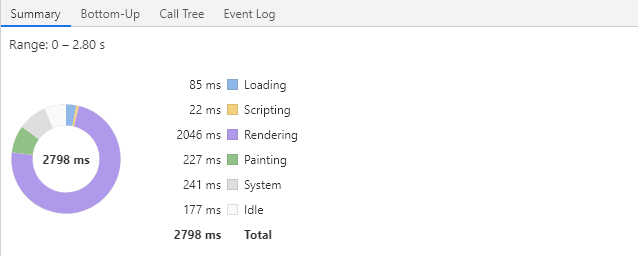
(BitDegree, 2019)

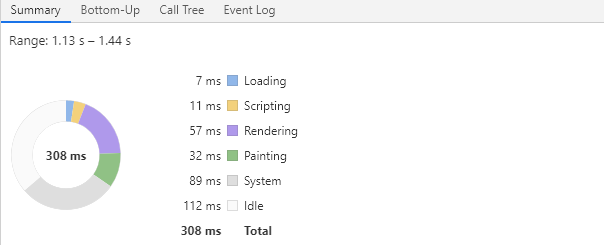
Home page (index.php)

Running the home page takes a relatively shorter period of time as it does not contain much code, it just contains the design and a few words for now.

1. 

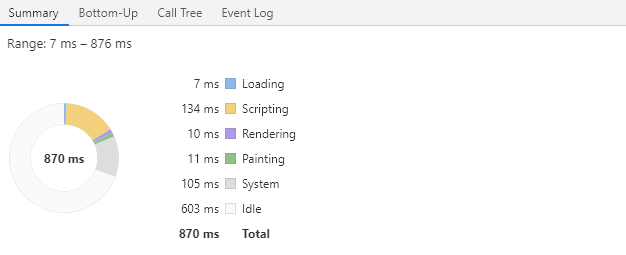
Search page (search.php)

1. According to the graph, rendering the search page takes up most of the time as the website is grabbing all the data from the database in one go and rendering it on the page.
2. When searching, system uses most of the time as it is searching in the database for the information requested



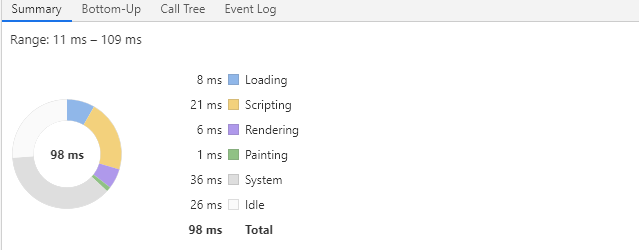
Top 10 Movies page (top10.php)

Scripting takes up most of the time on the top 10 movies page as jQuery and JavaScript is used to display the graph and execution of them takes up time.

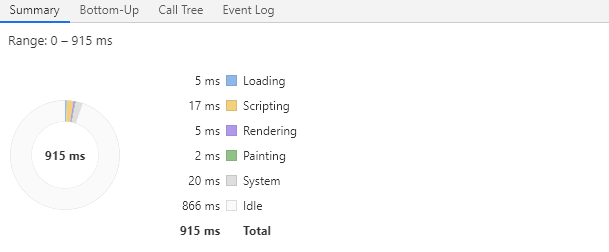
1. 

Sign Up page (signup.php)

1. Signing up to the page requires the system to load the data to the database, hence system takes up most of the time here.

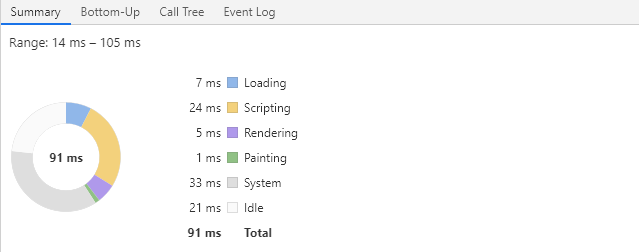


1. Signing up to the page requires the system to save the information to the database, hence, system takes up most of the time

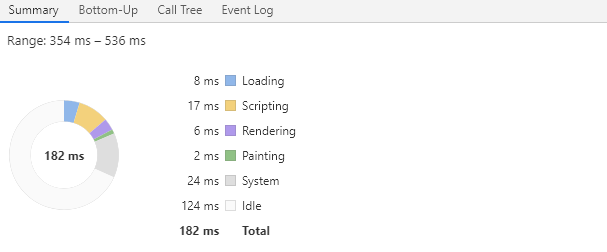


Login page (login.php)

1. Loading the login page doesn’t take up much time as it just contains a few text fields and buttons

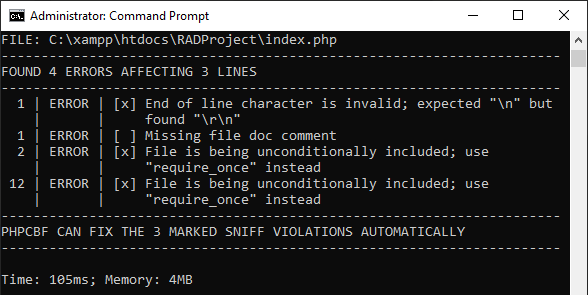
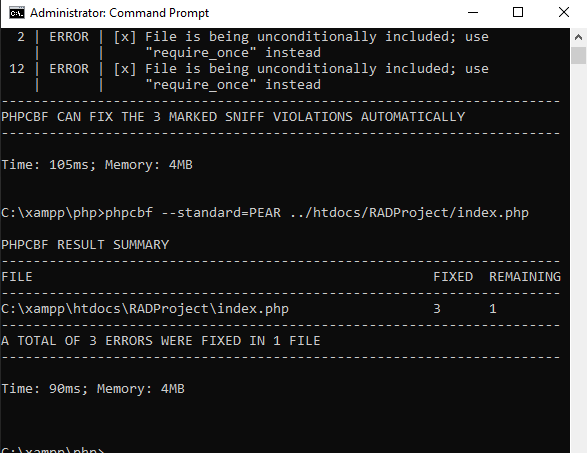


1. When logging in, the system takes up most of the time as it is required to load the database to ensure the credentials inputted are accurate

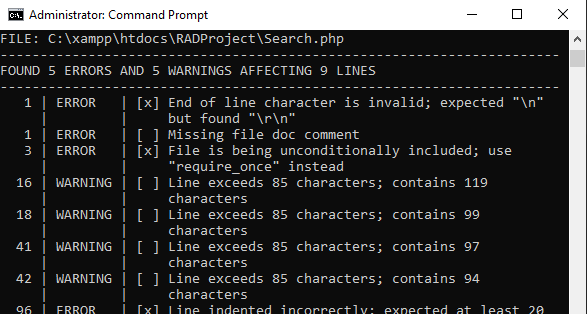
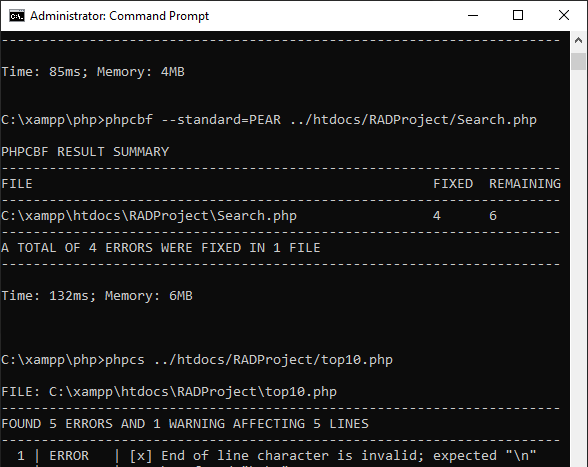


# PHP CodeSniffer

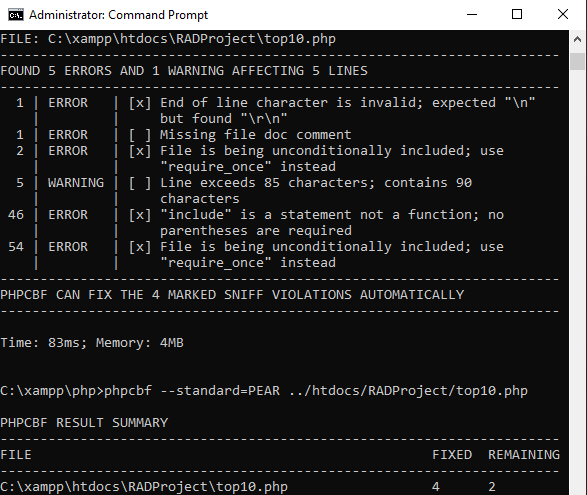
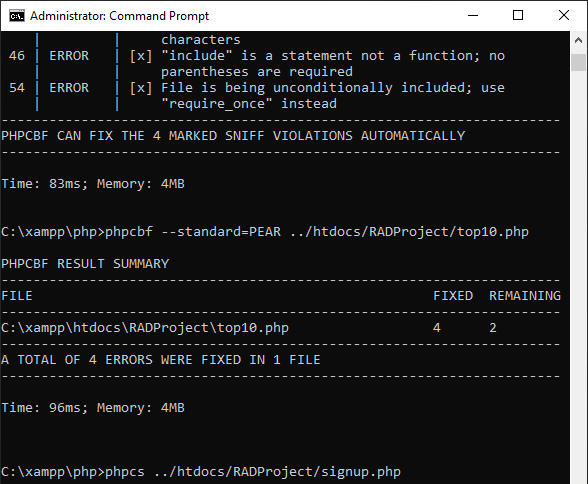
Home page (index.php)

1. 
2. 

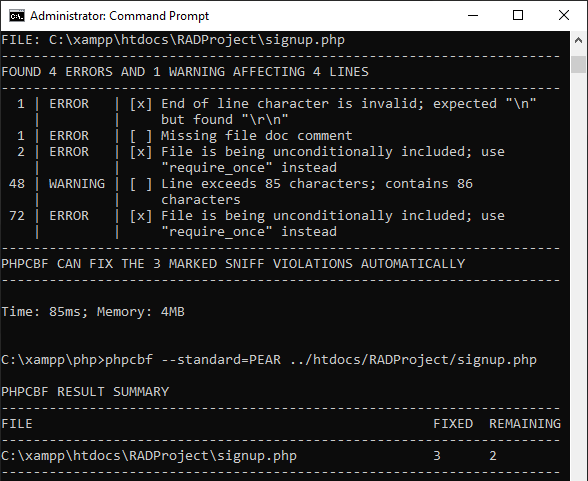
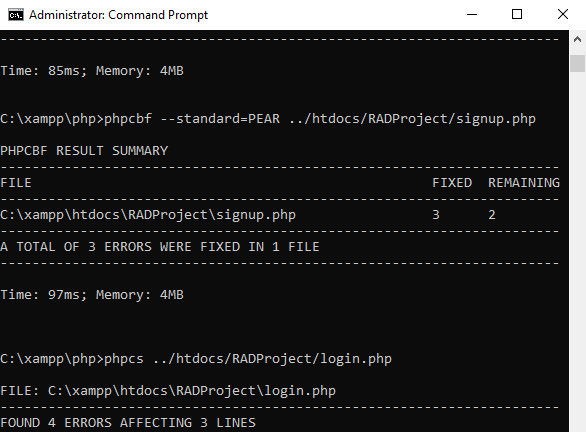
Search page (search.php)

1. 
2. 

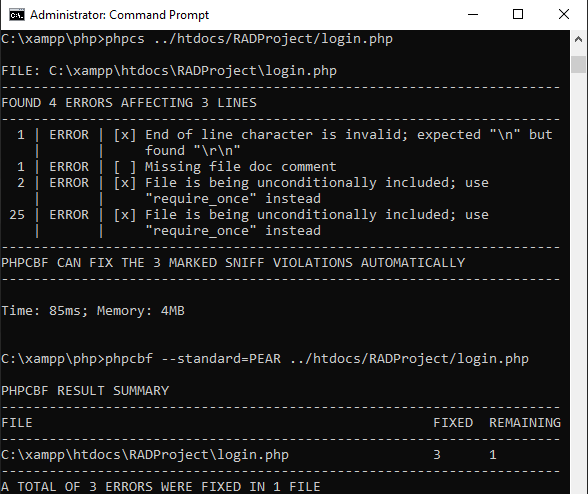
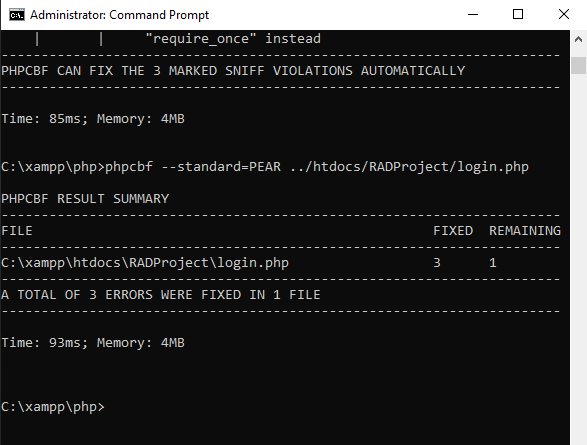
Top 10 Movies page (top10.php)

1. 
2. 

Sign Up page (signup.php)

1. 
2. 

Login page (login.php)

1. 
2. 

Software Development Testing Plan

UPDATE a test plan for the project

CHANGELOG

|  |  |  |  |
| --- | --- | --- | --- |
| Version # | Date of change | Change by | Outline |
| 1.0 | 5/11/2020 | Daniel Ewen | Test Plan Creation |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Test Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | Description | Expected Results | Actual Results | Pass/Fail |
| Precondition: Enter full name | | | | |
| 1 | User enters full name with letters | Full name entered into database | Full name entered into database | Pass |
| 2 | User enters full name with numbers | Full name not entered into database | Full name not entered into database | Pass |
| 3 | User enters full name with numbers, letters, characters | Full name not entered into database | Full name not entered into database | Pass |
| Precondition: Enter email address | | | | |
| 4 | User enters email address with @ and .com or .au | Email entered into data base | Email entered into data base | Pass |
| 5 | User enters email with @ only | Email not entered into database | Email not entered into database | Pass |
| 6 | User enters email with .com or .au only | Email not entered into database | Email not entered into database | Pass |
| Precondition: Communication option selection (monthly newsletter and/or breaking news flash notification as they occur) | | | | |
| 7 | Both communications selected | User receives both communications | User receives both communications | Pass |
| 8 | Monthly newsletter selected | User receives monthly newsletter | User receives monthly newsletter | Pass |
| 9 | Breaking newsflash selected | User receives breaking newsflash | User receives breaking newsflash | Pass |
| Precondition: Enter full name | | | | |
| 10 | Automatically sends email for removal of member details | Member details removed form database | Member details removed form database | Pass |