Team Velocity

|  |  |  |  |
| --- | --- | --- | --- |
| Sprint Length | Working hours | Efficiency/Initial Velocity (1/3 of working hours) | Points completed |
| 2 weeks | 100 hours | 30 hours | 30 points |

1. Our team has 5 members with each member has an availability of 2 hours per day, resulting in 10 working hours per day.
2. Across a work week, we have 50 working hours available, 100 hours per sprint
3. Considering an initial efficiency of 1/3 our availability, our team has just over 15 hours of initial productivity per week and, 30 hours per sprint
4. **On an ideal workday, our team would aim for 3 story points to be completed. This was decided by the average complexity of the tasks given 3 story points.**

Delivery Schedule

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 25th Apr 25  Week 8 | 2nd May 25  Week 9 | 9th May 25  Week 10 | 16th May 25  Week 11 | 23rd May 25  Week 12 | 30th May 25  Week 13 |
| Sprint 1  Story Points: 28 | | Sprint 2  Story Points: 25 | | Sprint 3  Story Points: 26 | |
| Release 1 | | Release 2 | | Release 3 | |

Team Schedule

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Remote/  Away | 25th Apr 25  Week 8 | 2nd May 25  Week 9 | 9th May 25  Week 10 | 16th May 25  Week 11 | 23rd May 25  Week 12 | 30th May 25  Week 13 |  |
| Teresa |  |  |  | |  | |  |
| Cynthia |  |  | | | | |  |
|  | Release 1 | | Release 2 | | Release 3 | |

Release Plan

## Release 1

Delivery date: Friday 25th, April 2025  
Total Story Points: 28

This release will focus on developing the *“Minimum Viable Product”* stage of production*.* Features surrounding the creation, reading, updating and deleting (CRUD actions) as well as user authentication and authorisation, and the foundations for quiz creation and undertaking will be the scope of this release.

### Authentication & Authorisation \*\*\*

This feature allows users to sign up, then log in and out of the Java application.

|  |  |  |
| --- | --- | --- |
| **Story ID** | **Story Title** | **Story Points** |
| **2** | Sign Up | 4 |
| **1** | Log In | 4 |
| **29** | Log Out | 2 |
| **8** | Home Page | 3 |
|  | Story Point Sub-Total: | 13 |

### Create Quiz \*\*\*/\*\*

This feature allows users to create a quiz using artificial intelligence (AI) by providing a prompt or topic. The creation and storage of the question as well as

|  |  |  |
| --- | --- | --- |
| **Story ID** | **Story Title** | **Story Points** |
| **12** | Quiz Generation | 5 |
| **16** | Set Number of Questions | 1 |
|  | Story Point Sub-Total: | 6 |

### Taking Quizzes \*\*\*

This feature allows users to answer the multiple-choice questions and receive feedback on whether they’re answer was correct. They should also be able to leave a quiz at any time and, retake quizzes where each attempt is recorded so that progress can be tracked.

|  |  |  |
| --- | --- | --- |
| **Story ID** | **Story Title** | **Story Points** |
| **25** | Select Choice | 3 |
| **9** | User Feedback for Question | 3 |
| **7** | Retake Quiz | 2 |
| **30** | Exit Quiz | 1 |
|  | Story Point Sub-Total: | 9 |

## Release 2

Delivery date: Friday 2nd, May 2025  
Total Story Points: 25

This release will focus on extending the features created in the first release*.* These features will allow users to the edit existing quizzes and, search and filter through them.

### Edit Existing Quiz \*\*

This feature will utiltise CRUD to regenerate questions that a user doesn’t like, add or remove questions without creating a new quiz, and edit the working of any questions and answers to quizzes that they are the original creator of.

|  |  |  |
| --- | --- | --- |
| **Story ID** | **Story Title** | **Story Points** |
| **17** | Delete Questions | 3 |
| **18** | Regenerate Questions | 4 |
| **19** | Add Questions | 5 |
| **20** | Edit Questions & Answers | 5 |
|  | Story Point Sub-Total: | 17 |

### Search and Filtering \*\*

This feature allows users to set categories for their quizzes so that they can quickly search for a topic within their difficulty and year level.

|  |  |  |
| --- | --- | --- |
| **Story ID** | **Story Title** | **Story Points** |
| **4** | Set Difficulty | 2 |
| **5** | Set Grade Level | 2 |
| **28** | Search Existing Quizzes | 2 |
| **31** | Filter Existing Quizzes by Difficulty and Grade | 2 |
|  | Story Point Sub-Total: | 8 |

## Release 3

Delivery date: Friday 30th, May2025  
Total Story Points: 26

The scope of this release is to extend the experience of users by allowing them to view and download previous quizzes, take quizzes made by other users and, provided the option for them to take the quiz under exam conditions

### Quiz Visibility \*

This feature allows users to make their quizzes private or public so that they can have privacy or save time by sharing quizzes with other users. This may offer a greater challenge and experience as user undertake quizzes that they don’t have to spedn time creating and that have unfamiliar questions

|  |  |  |
| --- | --- | --- |
| **Story ID** | **Story Title** | **Story Points** |
| **21** | Add Quiz Visibility | 4 |
| **22** | Set Quiz Visibility | 2 |
|  | Story Point Sub-Total: | 6 |

### Quiz History \*\*

This feature allows users to download a copy of a quiz to the storage of their local device for their own use.

|  |  |  |
| --- | --- | --- |
| **Story ID** | **Story Title** | **Story Points** |
| **6** | Review Quiz History | 4 |
| **23** | Download Quiz | 2 |
|  | Story Point Sub-Total: | 6 |

### Exam Mode Quiz \*

This feature implements a quiz environment that simulates exam conditions. This implementation will allow users to select whether they would like to take the quiz under *Practice Mode* (default)or take the quiz in *Exam Mode. Exam Mode* allows users to take the quiz under time pressure and review their answers before submitting for feedback.

|  |  |  |
| --- | --- | --- |
| **Story ID** | **Story Title** | **Story Points** |
| **26** | Return to Question | 3 |
| **11** | Select Exam Mode | 3 |
| **10** | Select Practice Mode | 1 |
| **13** | Set Timer | 1 |
| **15** | Adjust Timer | 2 |
| **14** | AI Set Timer | 4 |
|  | Story Point Sub-Total: | 14 |

### **Sprint Plan**

# **Sprint 1**

Total Story Points: 40 Total Hours: 40

Current Velocity: 1 point/hr (see Estimated Team Velocity Section)

## **Filter properties by services**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task ID** | **Task Description** | **Estimate** | **Taken** |
| **T01** | Create a dropdown menu next to the search bar with HTML, CSS and JavaScript. | 0.5 |  |
| **T02** | Send the GET request to an API to retrieve the result of services. | 0.5 |  |
| **T03** | Handle the response to return the filtered result in search section | 0.5 |  |
| **T04** | Verify story is complete (acceptance test). | 0.5 |  |
|  | Story Points: 2 Total Hours: | 2 |  |