­­­­­­­­Sprint Tracking

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| **Name:** | **The almighty quiz** | | |
| **Sprint Number** | **Start Date** | **End Date** | **Work hard rating** |
| 8 | 29/05 | 02/06 | **☆☆☆☆☆**  (out of 5 stars) |

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| **KANBAN board at the start of the sprint** |
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| **Screenshot of the program at the start of the sprint** |
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| **Sprint Reflection and summary** |
| Result summary is fully functional. Fixed bugs.  Documented and refactored my code a little.  Created 30 questions!  Increased the window resolution to allow the user to see longer questions because they were being cut off too quickly.  The result summary buttons are now ordered by date.  The programming is pretty much finished. Everything on my Trello board has been completed. The user interface is very easy for new users to understand. The green is used for correct answers, the yellow is used for an unchecked answer and the red is used for incorrect answers. The result summary is also self-explanatory for the user to understand. |

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| **Major Changes and Achievements Described** |
| As noted in the last sprint, I was having bugs with the checkboxes in the result summary, where the checkboxes could be ticked/unticked and weren’t showing up as ticked correctly. The correct/incorrect colours were also wrong. I was able to fix the tick bugs by creating a new class for the summary checkboxes to store the IntVar variables in. I’m assuming that for some reason all of the checkboxes were somehow using the same IntVar. The colour bug was caused by the fact that I was not saving the correct answers for the question properly, rather just the answers that the user got correct. But now both those bugs are fixed and it works perfectly.    The result summary has had so many bugs during this sprint, but it’s been great to have been able to fix all of them. It taught me how Python local variables worked as well, which is always nice.    The result buttons are now ordered based on their date. The more recent it is, the higher up it will be. I did this by adding all the days, months, hours etc. to create an integer order and then I sort the list like this:    One of the new questions: |

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| **Brief Description of your testing** |
| I made my testing process a lot more time consuming last sprint by adding those confirmation message boxes for when the user tries to close a window. I may have to add a keybind to close all windows instantly to make testing much faster.  Also tested the new questions and so far there have been no bugs in sight. |

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| **Link to testing results/tables** |
| The checkboxes are now working as I intended for them to work. However, in this screenshot the question count, that’s present when playing the quiz, does not appear in the summary results.  I had a bug where no matter what summary entry I went into, it would always use the latest save in the directory. This was because Python local variables work a lot differently to every other programming language I’ve used in the past. My solution was to use a new class for the summary scroller window.    I added a view summary button at the end of the quiz but forgot to set its visibility to false.    This error comes up when I try using the result summary more than once. For some reason an entry isn’t getting destroyed:  After lots of testing, I determined that I had already technically been destroying the answer objects, but not in the way I thought. I forgot I was destroying and creating a new window each time the user opens the summary, which means it was trying to delete objects that were already destroyed with the previous window.    This is what happened when I pressed enter on the main window while in the summary screen. I forgot to check for that.  Some questions were too long so the top text would sometimes be cut off. Now the screen resolution is wider so that won’t happen anymore.    The buttons are not ordered in any kind of way. I need to order them from most to least recent.    That red one is meant to be orange because it can be used.    The above bug has now been fixed. I forgot to check the answer type and instead I was checking the question type. |

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| **KANBAN board at the end of the sprint** |
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| **Screenshot of the program at the end of the sprint** |
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| **Notes for next time, future improvements** |
| The programming is now completed. I am where I planned for myself to be at this stage.  The final version should be v1.2.8. |