Software Engineering AT1 Dev Log - 39400111 – Jayden Harris

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date and Time | Progress | Difficulties | Solutions | References |
| **7/04/25 9:15** | Read through assessment requirements and began dev log. Seems easy for an apprentice become master programmer like myself. | Reading | Learn to read | * <https://nfc.cambridgeschool.edu.in/wp-content/uploads/sites/2/2020/05/THE-VERY-HUNGRY-CATERPILLAR.pdf> |
| **15/04/25 15:30** | Created and set up: dev log, question doc, and GitHub repository. Also programmed the basic TK window, complete with salmon theming, as well as experimenting with questioning systems. At this rate I will be done in a week or so. | It was difficult getting GitHub to interface with visual studio for the first time. | This was solved by going back and looking at the class notes and refollowing the guide from, scratch. | * <https://realpython.com/python-gui-tkinter/> |
| **22/04/25 14:30** | Finished the styling for the questions and overall layout. I thought it was a good idea to have a dark salmon shade around the outside and a lighter salmon shade in the middle to help draw the user’s eyes to the GUI (Pronounced: *GEE-YOO-EYE* and not *GOOEY*). | I faced the challenge of keeping everything a shade of salmon but still allowing for enough contrast to allow for readability and accessibility. | This challenge was overcome by using the darkest salmon shade against the lightest salmon shade. | * [https://cs111.wellesley.edu/archive/cs111\_fall14/ public\_html/labs/lab12/tkintercolor.html](https://cs111.wellesley.edu/archive/cs111_fall14/%20public_html/labs/lab12/tkintercolor.html) |
| **28/04/25 18:00** | Created the main menu and renamed the TK variables to contain what they are abbreviated in the name of the element. | Getting the padding/placement of the UI widgets to fit on the 640x480 geometry. | Taking extra care with padding values. | * <https://tkdocs.com/tutorial/widgets.html> |
| **29/04/25 20:30** | Added the commands to the main menu buttons so they check and validate the name and student ID, this is then stored in a data dictionary to be saved later in a text file. | I encountered some difficulties while creating the data dictionary because I kept getting mixed up with C#. | Improvising, adapting and overcoming. | * <https://www.w3schools.com/python/python_dictionaries.asp> |
| **29/04/25 22:00** | Added the base of the question section and changed the root and frame config to apply to different forms. | I forget how to return multiple values from a function | I searched it up | * <https://www.geeksforgeeks.org/g-fact-41-multiple-return-values-in-python/> |
| **30/04/25 11:00** | Added a marking system for the multiple-choice questions and added a label to display to the user after they complete the question if they got the question correct. | I found difficulty trying to read which radio button is selected. | I searched it up | * <https://pythonlobby.com/radio-buttons-in-tkinter-gui-programming-python-tkinter-tutorial/> |
| **30/04/25 12:00** | Added fill in the blank style questions and began working on the rank in order questions. | I was struggling to come up with a way to do this that was aesthetically pleasing and functional. | Tried harder |  |
| **30/04/25 18:30** | Changed the configs which store the variables for theming for easy adjustments in a record to allow edits only needed in one place. Also made tiny progress on the rank in order questions. | Calling values from the record from another module. | import Record  var= Record.Class().var | * The Bartlett himself * <https://www.tutorialspoint.com/combobox-widget-in-python-tkinter> |
| **30/04/25 21:30** | Completed the rank in order question. | Working with combo boxes which I’ve barely used before. | Following online guides. | * [https://www.tutorialspoint.com/how-can-i-disable-typing-in-a-ttk-combobox-tkinter#:~:text=The%20ttk.,the%20state%20as%20“readonly](https://www.tutorialspoint.com/how-can-i-disable-typing-in-a-ttk-combobox-tkinter#:~:text=The%20ttk.,the%20state%20as%20)”. |
| **01/05/25 10:30** | Began working on the questions for the quiz. The questions will take a while to come up with. | Thinking of questions | Following the syllabus online. | * <https://curriculum.nsw.edu.au/learning-areas/tas/software-engineering-11-12-2022/content/year-11/fac3c86ce1> |
| **01/05/25 13:30** | Finished making the questions and added them to the code | Thinking of questions | Following the syllabus online. | * <https://curriculum.nsw.edu.au/learning-areas/tas/software-engineering-11-12-2022/content/year-11/fac3c86ce1> |
| **01/05/25 15:00** | Began making the random question system. | Retrieving a random value from a set. | The solution used a list so I just used a list instead with a random function. | * <https://stackoverflow.com/questions/15837729/random-choice-from-set> |
| **02/05/25 8:30** | Finished making the random question generation. | All the damn bugs and compatibilities in the code. | Breakpoints | * <https://www.geeksforgeeks.org/python-random-sample-function/> |
| **02/05/25 10:00** | Fully implemented the random questions and fixed its bugs. | Getting the questions to fit inside the labels. | Searched it up.  Used wraplength | * <https://stackoverflow.com/questions/11949391/how-do-i-use-tkinter-to-create-line-wrapped-text-that-fills-the-width-of-the-win#:~:text=The%20Tkinter%20Label%20widget%20does,LEFT%20%2C%20RIGHT%20%2C%20or%20CENTER%20>. |
| **02/05/25 11:35** | Added AMOW window and started results page.  \*The grading system works in the order of “JAYDEN”, where J is 100 %, “A” is the second highest and “N” is the lowest. | Getting the checkbutton to enable and disable the continue button. | I searched it up and found you can put a command in a checkbutton and so I did that. | * <https://www.geeksforgeeks.org/python-tkinter-checkbutton-widget/> |
| **02/05/25 12:00** | Finished results page. Just have the file system left to do. | Thinking of a difficulty for the dev log. | Using this difficulty. | * Me |
| **02/05/25 13:00** | Finished the file system and stopped people from being able to submit several times on a question. | Not remembering the file functions | Searched it up | * <https://www.w3schools.com/python/python_file_write.asp> |
| **02/05/2514:50** | Added comments | Being the apprentice | Becoming the master |  |
| **02/05/2518:00** | Improved comments and touched up code a little | Not getting distracted | Welding my door shut | * <https://en.wikipedia.org/wiki/Gas_metal_arc_welding#:~:text=Gas%20metal%20arc%20welding%20(GMAW,fuse%20(melt%20and%20join>). |
| **02/05/25 18:30** | Improved questions in word doc | Thinking of better questions | Following HSC SE course specs | * <https://curriculum.nsw.edu.au/learning-areas/tas/software-engineering-11-12-2022/content/year-11/fac3c86ce1> ` |
| **02/05/25 19:00** | Added questions to python app | Fixing the code relating to total mark | Doing it | * [www.google.com](http://www.google.com) |
| **02/05/25**  **19:10** | Submitted | Forgot word docs in git | Did that |  |