**Testing and Evidence Log**

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| Component 1 | | |
| 20/5/21 | Test plan for this component:  All the aspects of the job should print into the shell when submit is pressed.  Other than that it should behave (on expected input only) as the final program, so the final test plan (specifically everything but the next and back display testing).  These screenshots show the testing plan, but with the boundary and exceptional tests crossed out because they are not relevant at this point. |  |
| 20/5/21 | For the very first version of my program (just the entry frame) I created all the widgets that I would need for this frame and gridded them where they will be placed. I have not added any variables or functionality to any of them, and there still is a lot of formatting to do, but this will be the base for my program. |  |
| 20/5/21 | Next, I got the customer name and distance travelled to print to the shell. These were grouped together because they are quite easy to get working. I added variables for them, linked the variables to the widgets, then set a command to the submit button that prints the value of these variables when pressed. |  |
| 20/5/21 | Next, I got the check buttons to also work and be printed when submit is pressed. When the submit button is pressed, if the variable for their respective variable is set to the on value, it will print out that service. When only virus was ticked it only printed that, vice versa for WOF, when neither were ticked it did not print anything, and when they were both ticked it printed both. |  |
| 20/5/21 | Finally, the last thing I did in this version was make it so that the minutes entry printed. I added a command to the virus checkbox so that you can only type in the entry box when that checkbox has been ticked. If the checkbox is unticked but there is still a value in the entry box, it will clear the entry box, so it does not print anyway. At the moment for it to work with the entry box the minutes variable is a string var. This will need to be changed when it is time to do calculations with the minutes value. |  |
| 20/5/21 | In this version I was saving the inputs into an object and calculating the charge. As I was testing that it was working I came across an error message. I had both WOF and virus ticked, but when I unticked WOF so only virus was selected this error popped up. I traced the error back to its line and realised it was because I had put the wrong variable (the virus one, when it should be the WOF one) in the else statement. I fixed it and the error went away.  Here is the code I changed and a screenshot showing a few of the tests I did. One of the charge numbers has a lot of decimal places but python does that sometimes and it won’t affect it when it is rounded to 2dp (because it is money). I added some constants to do with the charge amounts, a Job class, a method for calculating the cost, and changed the submit method so that it creates a job object and prints the variables directly from that object, so I know it has saved properly.  Next I need to get the job number to iterate. |  |
| 20/5/21 | I added code to the end of the submit method so that the job number would iterate. Shown are screenshots of some testing examples with the job number iterating, and also one of the GUI showing that it also updates on the label. |  |
| 20/5/21 | Finally, before testing, I made some minor formatting changes to the frame. I spaced everything out a little bit, so it is easier for the user to read and see which label corresponds to which widget. I also made it so that the minutes spent description label greys out whenever virus protection isn’t ticked so the user knows they can’t enter values into it. |  |
| 20/5/21 | I tested that everything in this component was working before I moved on to the next component. I tried a variety of distances, minutes, and combinations of WOF/virus, and nothing broke. This means that I can continue and start on the next component. | Evidence is in the testing videos folder called “testing component 1” . |
| 20/5/21 | With that, component 1 was finished! I was now running a couple days ahead of schedule. Here are screenshots of my trello board / calendar that show my progress so far. |  |
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