Documentation Template

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| ***You MUST provide evidence showing how the problem has been decomposed, how the components have been developed and trialled, and of how they have been assembled and tested to create a final, working outcome.*** |

### **Outline / Decomposition**

*Please write down your task decomposition here (a numbered list is a good idea)*

1. User is asked if they have played before, if no show instructions, if yes continue.
2. User is asked how many rounds they want to play or if they want to play infinitely.
3. User is asked to enter either rock / paper / scissors.
4. User’s input is compared with the computer’s random answer, and they are told if they win / lose / draw, their score is also displayed.
5. Once the user quits or runs out of rounds, they are shown the game stats / history with all their wins and losses.

Components I will need:

* Instruction component (ask user if they have played before, show instructions or continue program) i.e., yes/no checker
* Round component (ask user how many rounds they want to play, number checker component invalid input: negative numbers, zero, or decimals)
* Continuous component (if user says they want they want to play endless rounds, then play infinite rounds until user quits)
* User choice component (ask user for either rock / paper / scissors and generate a random choice from the computer, then compare the choices to see who won)
* Score component (store the user’s score with wins, losses and draws)
* Summary component (show the score sheet with each win, loss and draw, along with the choices made by the player and computer in each round)

### **Flowchart**

*Please show a developed flowchart of your program below (you may use draw.io to create your flowchart)*

*Diagram, engineering drawing

Description automatically generated*

### **Version Log**

*Your version log should go here. Annotated screenshots are a good idea at this point*

### **Component Testing**

*Show that you have tested each component here. You should have a test plan and then screenshot proof for each component. You should also include notes that justify the major decisions you made.*

**Test Plan**

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| --- | --- |
| **Test Data** | **Expected Result** |
| Rock | Accepted, changed to ‘rock’ (note lowercase) |
| PAPER | Accepted, changed to ‘paper’ |
| scissors | Accepted, stays as ‘scissors’ |
| R | Accepted, changed to ‘rock’ |
| p | Accepted, changed to ‘paper’ |
| S | Accepted, changed to ‘scissors’ |
| <enter> | Error message ‘please enter rock, paper or scissors |

### Assembled Outcome Testing

*Please show testing for your assembled outcome below. This should include a test plan followed by screenshot proof*

### Usability Testing

*Write a list of things improvements which need to be made based on your usability testing. Then write down what you changed.*

### Post Usability Test…

*Show that your post usability testing program works correctly*

### Social and End User Considerations…

**How did you ensure that your task was suitable for your chosen audience?**

*Answer here*

**How have you honoured copyright?**

*Answer here*

**How did you make your quiz easy to use?**

*Answer here*