**Part B: Documentation (50%)**

Documentation supporting your software development journey must be created using Microsoft Word and include the following sections:

|  |  |
| --- | --- |
| Section | Description |
| Planning | Task Definition |
| Structure charts, finish it in draw.io |
| Flow chart, finish it in draw.io |
| Data Dictionary |
| Implementation | Link to your GitHub repository containing source code |
| Testing | Test table |
| Evaluation | Project reflection |

**Task Definition**

I have been assigned the task of developing ‘connections.py’, a word puzzle driven python application for the 2023 game of connections, ensuring a functional and fun game play that reflects the game's challenging nature. I aim to execute a will programmed, bug-free application that is user-friendly and more importantly engaging to the user.

The functional requirements I will need to implement include:

* Randomly select 4 categories and in each of those categories it will select there 4 words.
* Display those 12 words in a 4x4 words grid.
* There will be 4 lives.
* For every wrong guess the live will deplete by 1 and for every right answer it will display how many live you have left and congratulate you for guessing all the words correctly with there categories.
* If all your live are less, then 1 so 0 it will display game over.
* Have a restart game function.