Part 3: Reflection

To begin with, I prompted the AI to identify potential logical errors in my flowchart, suggest improvements, and create a professional README.md for my GitHub repository. The AI’s responses aligned with my thoughts after completing step 4. For instance, it noted that infinite system loops could occur if the dispenser gate jams. It also provided insights I hadn’t considered, such as the pet knocking over the bowl and unexpectedly changing the FoodOnBowl value, as well as suggestions to improve performance. Regarding improvements, the AI offered numerous approaches: raising an error if dispensing takes longer than a set number of attempts, adding a delay before rechecking real time against FeedTime, and more. Furthermore, it gave tips like unit testing each module by simulating scale readings and time jumps to verify each state transition. The AI influenced my final solution by highlighting both anticipated and unexpected errors. In conclusion, the AI helped me identify potential logical errors and suggested valuable improvements.