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Inspection Checklist for Team_23

Product: Retail Billing System

Checklist to check for code's correctness, organization, security, performance, documentation, and functionality, to meet system requirements and standard.

General:

- Does the code function as intended?
  Answer: Yes

- Is the code well-organized and easy to understand?
  Answer: Yes

- Is there any duplicated code that could be refactored?
  Answer: yes

- Have all unnecessary or commented-out code blocks been removed?
  Answer: Yes

- Is the code modular and promotes re-usability?
  Answer: Yes

- Are loop conditions and termination conditions well-defined and clear?
  Answer: yes

- Are all variable names meaningful and clear?
  Answer: Yes

- Does the code handle edge cases correctly?
  Answer: yes

Python-Specific:

- Does the code pass pylint?
  Answer: Yes,

- Is the code properly formatted using black?

Answer: Yes

Security:

- Is user authentication and authorization handled correctly?
  Answer: Yes

- If SQL queries are used are proper placeholders used to prevent SQL injection?
  Answer: yes

Documentation:

- Does each module have a docstring explaining its purpose and functionality?
  Answer: Yes

- Does each class have a docstring explaining its purpose and functionality?
  Answer: Yes

- Does each method have a docstring explaining its purpose and functionality?
  Answer: Yes

- Is any special case behavior documented?
  Answer: Yes

- Are inline comments used to provide clarity where necessary?
  Answer: Yes,

Performance:

- Is the code optimized for performance, with no obvious bottlenecks or inefficiencies?
  Answer: Yes

- Can any computational or database operations be further optimized?

Answer: Yes, when remove item, item should be removed if item quantity is 0.

Testing:

- Is the code structured to be easily testable, with well-defined functionality?
  Answer: Yes

- Are there comprehensive tests covering different features and scenarios?
  Answer: Yes

- Do the test cases adequately check the code's functionality and edge cases?
  Answer: Yes