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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**,** all tests pass successfully so code works well.

* Is the code well-organized and easy to understand?

**Answer:** Yes**,** it is easy to understand.

* Is there any duplicated code that could be refactored?

**Answer:** No, I didn’t find any code that needs to be refactored.

* Have all unnecessary or commented-out code blocks been removed?

**Answer:** Yes**,** all unnecessary code was removed.

* Is the code modular and promotes re-usability?

**Answer:** Yes, code is broken down into functions so whenever you need it you call or access anywhere.

* Are loop conditions and termination conditions well-defined and clear?

**Answer:** There are no loops, here basically it is one part of GUI call the other part.

* Are all variable names meaningful and clear?

**Answer:** Yes**,** I especially like this as naming was done precisely and I don’t have to find and think jut by reading you come to know.

* Does the code handle edge cases correctly?

**Answer:** Not Applicable, because in GUI either it works or doesn’t.

**Python-Specific**:

* Does the code pass pylint?

**Answer:** Yes, it gave 10/10 ratings.

* Is the code properly formatted using black?

**Answer:** Yes, it is.

**Security**:

* Is user authentication and authorization handled correctly?

**Answer:** Yes, it handles good.

* If SQL queries are used are proper placeholders used to prevent SQL injection?

**Answer:** Not Applicable, because it has nothing to do with SQL here.

**Documentation**:

* Does each module have a docstring explaining its purpose and functionality?

**Answer:** Yes, there is proper docstring.

* Does each class have a docstring explaining its purpose and functionality?

**Answer:** Yes, it has.

* Does each method have a docstring explaining its purpose and functionality?

**Answer:** Yes, it has.

* Is any special case behavior documented?

**Answer:** Yes, here there is no special case.

* Are inline comments used to provide clarity where necessary?

**Answer:** Yes, it was there.

**Performance**:

* Is the code optimized for performance, with no obvious bottlenecks or inefficiencies?

**Answer:** Yes, the code is optimized.

* Can any computational or database operations be further optimized?

**Answer:** Not Applicable, as no database operation is required.

**Testing**:

* Is the code structured to be easily testable, with well-defined functionality?

**Answer:** Yes, code is structured well.

* Are there comprehensive tests covering different features and scenarios?

**Answer:** No, there are no comprehensive tests covering different features and scenarios

* Do the test cases adequately check the code's functionality and edge cases?

**Answer:** No Edge cases required here because either it will work or not.