

# ■■ Restaurant Billing System – Project Report

## ■ *Objective*

A Python-based Restaurant Billing System to simplify order management and billing. Supports Dine-in & Takeaway, applies GST & Discounts, and generates PDF Bills & Sales Reports.

## ■■ *Tools & Technologies*

- Python
- SQLite3
- Tkinter / Streamlit
- Pandas
- ReportLab

## ■ *Key Features*

- Menu Upload (CSV → Database)
- Order Entry (Dine-in / Takeaway)
- Bill Calculation (Subtotal, GST, Discounts, Total)
- PDF Bill Generation
- Unique Order ID / Item ID handling
- Sales & Top Items Reports
- Interactive UI (Tkinter / Streamlit)

## ■ *Project Structure*

- app.py → Main Application
- utils/db\_utils.py → Database Operations
- utils/pdf\_utils.py → PDF Bill Generation
- utils/report\_utils.py → Sales Reports
- utils/calculator.py → Billing Calculations
- menu.csv → Sample Menu
- db/restaurant.db → SQLite Database
- reports/ → Generated Reports
- bills/ → Generated Bills

## ■ *Workflow*

1■■ Upload Menu → 2■■ Take Orders → 3■■ Calculate Bill → 4■■ Generate PDF → 5■■ View Reports

## ■ *Outcome*

- 100% Completed
- Backend + Frontend + Reporting Integrated
- Ready for Final Presentation

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