

# AAKAR INSTITUTE OF MANAGEMENT & RESEARCH STUDIES, NAGPUR



SEMINAR ON

## HOTEL BILLING SYSTEM

GUIDE BY

**KHURSHID  
AHMAD**

PRESENTED BY :

- Nilesh S. Rangari
- Mohnish G. Deshmukh
- Sapna T. Dubey

# HOTEL BILLING SYSTEM





# CONTENTS

- ABSTRACT
- OBJECTIVE
- GOALS
- NEED OF THE SYSTEM
- PURPOSE
- PROJECT SCOPE
- PROPOSED SYSTEM
- MODULES



# CONTENTS

- FRONTED
- SOFTWARE USED
- DATA FLOW DIAGRAM
- USE CASE DIAGRAM
- SYSTEM ARCHITECTURE
- SCREENSHOT
- CONCLUSION & FUTURE SCOPE
- BIBLIOGRAPHY



# ABSTRACT

- **Billing Software system is a project which aims in developing a computerized billing system to maintain all the billing work of a hotel.**
- **Billing System is a python based project. We have developed Billing System using Python Tkinter.**
- **The main modules available in this project are Calculate total module which manages the functionality of total calculation with tax, Generate bill is normally used for generate receipt of bill, Search bill used for searching previous bill of customer using bill number.**

# OBJECTIVE

- The main objective of the Billing Software System is to calculate total , generate bill receipt.
- It manages all the bill information in a text file with a unique bill number.
- The purpose of the project is to build an application program to reduce the manual work for calculating bill in a hotel.
- It provides easy interface to the hotel owner and assistant. Tax is also calculated in our project.





# GOALS

- It tracks the information of Customer.
- Generate Receipt of Bill and store previous bills in a txt file.
- Tax is also calculated in our project . All the fields are validated and does not take invalid values



# NEED OF THE SYSTEM

- There is always a need of a system that will perform easy billing calculation in a hotel.
- This system will reduce the manual operation required to maintain all the bills. And also generates bill receipt with unique bill number.



# PURPOSE

- **The purpose of Billing Software System is to automate the existing manual system by the help of computerized equipments and full fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same.**
- **This project helps in administrative work such as searching of bill and generate receipt of bill using simple user friendly interface.**

# PROJECT SCOPE

The project has a wide scope, as it is not intended to a particular organization. This project is going to develop generic software, which can be applied by any businesses organization. More over it provides facility to its users. Also the software is going to provide a huge amount of summary data.





# PROPOSE SYSTEM

**The Billing Software system is available in the market that can serve hotels and other restaurants to calculate bills easily using this computerized system.**

# MODULES

- CALCULATE TOTAL
- CALCULATE TAX
- CALCULATOR
- GENERATE BILL RECEIPT





# FRONTED

- PYTHON (TKinter)



```
33     self.fingerprints = set()
34     self.logduplicates = True
35     self.debug = debug
36     self.logger = logging.getLogger(__name__)
37     if path:
38         self.file = open(os.path.join(path, 'fingerprint.log'), 'w')
39         self.file.seek(0)
40     fingerprints = []
41
42     def __init__(self, settings):
43         self.settings = settings
44         self.job_dir = settings.getbool('supersecret', 'job_dir')
45
46     def request_seen(self, request):
47         fp = self.request_fingerprint(request)
48         if fp in self.fingerprints:
49             return True
50         self.fingerprints.add(fp)
```

# SOFTWARE USED



- PYTHON INTERPRETER
- PYCHARM IDE OR VS CODE

# DATA FLOW DIAGRAM



# USE CASE DIAGRAM

- Use case diagram consists of use cases and actors and shows the interaction between them. The key points are:
- The main purpose is to show the interaction between the use cases and the actor.
- To represent the system requirement from user's perspective.
- The use cases are the functions that are to be performed in the module.
- An actor could be the end-user of the system or an external system.





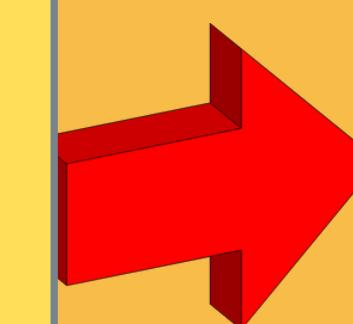
OWNER

CALCULATE TOTAL

CALCULATE TAX

CALCULATOR

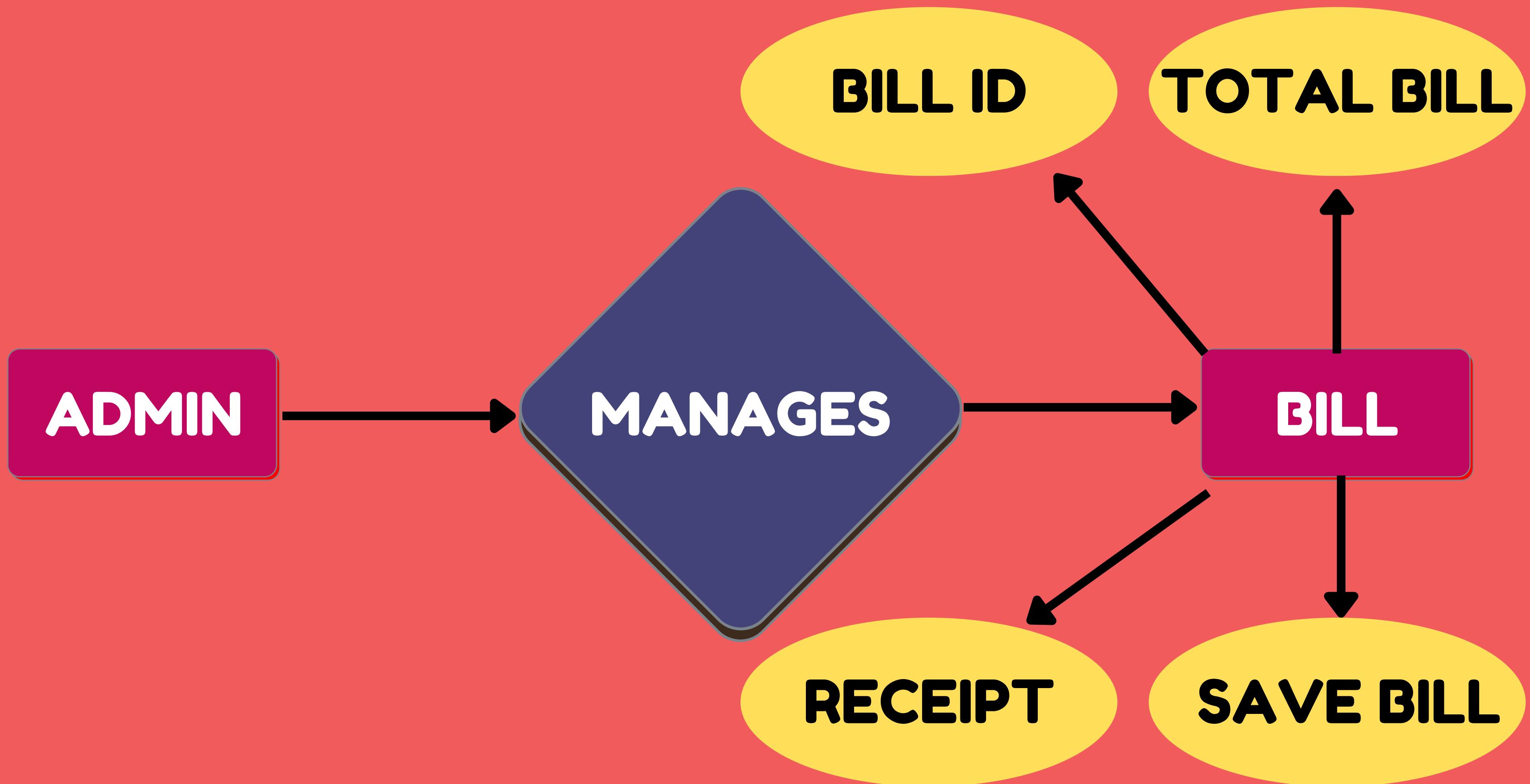
GENERATE BILL  
RECEIPT



SYSTEM

use case diagram between ADMIN and SYSTEM

# ARCHITECTURE DIAGRAM





# SCREENSHOT

Restaurant Management System

## Hotel Billing System

FOOD		DRINKS		CAKE	
<input type="checkbox"/> Roti	0	<input type="checkbox"/> Lassi	0	<input type="checkbox"/> ButterScotch	0
<input type="checkbox"/> Daal	0	<input type="checkbox"/> Coffee	0	<input type="checkbox"/> Apple	0
<input type="checkbox"/> Kolhapuri	0	<input type="checkbox"/> Faluda	0	<input type="checkbox"/> Vanilla	0
<input type="checkbox"/> Sabji	0	<input type="checkbox"/> Juice	0	<input type="checkbox"/> Black Forest	0
<input type="checkbox"/> Masoor	0	<input type="checkbox"/> Jaljira	0	<input type="checkbox"/> Banana	0
<input type="checkbox"/> Kaju	0	<input type="checkbox"/> Tea	0	<input type="checkbox"/> Brownie	0
<input type="checkbox"/> Paneer	0	<input type="checkbox"/> Badam Milk	0	<input type="checkbox"/> Pineapple	0
<input type="checkbox"/> Mix-Veg	0	<input type="checkbox"/> Cold-Drinks	0	<input type="checkbox"/> Chocolate	0
<input type="checkbox"/> Chawal	0	<input type="checkbox"/> Sarbat	0	<input type="checkbox"/> Oreo	0

Cost Of Drinks      Sub Total  
Cost Of Cakes      Service Charge  
Cost Of Food      Total Cost

Calculator Keypad:

7	8	9	+	0
4	5	6	-	
1	2	3	*	
Ans	Clear	0	/	

Total    Receipt    Save    Reset

# CONCLUSION & FUTURE SCOPE



## FUTURE SCOPE :

This desktop application involves almost all the basic features of the billing software. The future implementation will be help for admin to add and manage new products.

## CONCLUSION :

The project entitled "Billing Software System" is developed using Python tkinter as front end to computerize the process of total calculation and bill generation. This project covers only the basic features required.



# BIBLIOGRAPHY

## PYTHON INSTALLATION

<https://www.python.org/>

## TKINTER BASICS

[https://www.tutorialspoint.com/python/python\\_gui\\_programming.htm](https://www.tutorialspoint.com/python/python_gui_programming.htm)

<https://www.geeksforgeeks.org/python-gui-tkinter/>

THANK  
YOU

