A

PROJECT REPORT

ON

RESTAURENT MANAGEMENT SYSTEM

Submitted by

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&

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Under The Guidance Of

Prof. Pranali Deshmukh

In Partial Fulfilment

Of

Bachelor of Business Administration In

Computer Applications

(Semester - V)

(2019-2020)

ARIHANT COLLEGE OF COMMERCE ARTS & SCIENCE

ACKNOWLEDGEMENT

"Ambition, hard-work, struggle and proper guidance leads to success. It is golden moment and great pleasure to present this project".

Report On-:

RESTAURENT MANAGEMENT SYSTEM

We take this opportunity to express our heartiest gratitude to our Computer Department and our guide **Prof. Pranali Deshmukh** for their valuable guidance and suggestions throughout the project schedules. She helped as at every step of our project and without whose guidance logical support this project would not had seen light of this day

We would like to thanks our Head of Department **Prof. Sangram Kakade** who has given us lot of technical support. We are thankful to the entire respective staff member for their timely help. Finally we are thankful to our parents and friends for the inspiration and encouragement they give us through the project.

Sincerely

Abhishek & Sanjana

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1 .INTRODUCTION

TO

RESTAURENT MANAGEMENT SYSTEM

The Restaurant Management System 1.0 is a very interactive and fast software which really lets user to save his time and keeps him off from all the tedious jobs for finding records and doing all the stuff.

The most striking feature of the software is that it has been provided with a very simple and fast procedure to manage work form adding new employee to generating bill. In this procedure the customer will not have to do anything and not to get bothered about filling up all the above information just customer need to share their mobile number, the user will do all the work.

In the same way the software has been provided with the management of all information of Employee or Worker, Customer, Food Items. The user can find out the information of the Food, Employee & Customer just by Data Grid Control.

The modules involved in this project are:

- Login for user and admin
- Employee Details Adding
- Maintenance Of Customer Details
- Adding Food Items
- Search Key For Employee, Food, Customer Tables It uses The Unique Id For Searching The Records
- Generating Bills
- It Also Calculate The Total Amount Of Today's Bills
- It Automatically Generate The Bill Id For convenience
- It Also Creates Individual Reports Of Every Entity

1.1 EXISTING SYSTEM

Manual System Was Carried Out As Following

The existing system around many Restaurant which deals with the recording the day to day activity of billing done on booklet.

The data of every employee who work in the Restaurant is written in the register. It is the traditional method.

If any kind of booklet is missing then there will problem during the crating balance sheet.

If any customer need one more copy of bill then it is not possible to the user to give the same bill with same bill number.

If register disappeared then the all information about the employee can be lost.

If the Restaurant is famous or it is very popular Restaurant then it is not possible to the user to generate the bill of multiple customers at a time.

1.2 DRAWBACKS OF EXISTING SYSTEM

The present system requires of lot of manpower and there may delay for some work in case of absence of employee.

1. Large numbers of registers to be maintained.

2. It is very time consuming & tedious work, since all calculations are to be done manually for every bill.

3. Lack of Manpower.

4. Automatic updating of information is not possible.

5. Inconvenience in maintaining of registers or records in cupboards

6. Organization may find problem in case living of some employee.

7. It is very hectic and lengthy job to find particular record as the registers containing that particular record may be full of thousands of records.

1.3 PROPOSED SYSTEM

Due to computerization Internet to home services will enjoy following.

This Restaurant Management System 1.0 is fully integrated system which has interaction with databases for storing the different types of data. It has separate partition of Employee, Customer and Billing Management system which are integrated in one system.

It is easy to user to do the entire task on one system. Hence the speed of work will improve and it leads to profit.

This system has facility as follow-:

1. Data Entry
2. Paperless Work
3. Ultra-Modern Technical Environment
4. Standard Of Work Will Improve
5. Attractive Representation
6. Helpful In Future Plans
7. Increased Speed Of Work
8. Reduction Of Manpower
9. Prompt Services and Many More…….!

2. SYSTEM ANALISYS

Requirements are nothing but the ideas in the mind of the Donors and the Recipients. Requirement can also be defined as a condition of capability needed by the user to solve the problems or to achieve the objects

The requirement phase translates the ideas in the mind of the client (input) into the document called "Software Requirement Specifications" (SRS) output

The basic goal of requirement phase is to produce SRS, which explains the complete external behavior of the proposed software

The process of the software analysis & specification gives additional ideas to the client about what is needed from the system

Components of SRS

SRS is the primary document which is generated after customer communication in order to be complete any SRS should have following

Components

- ✓ Functionality requirements
- ✓ Reference requirements
- ✓ Design constraints
- ✓ External interface

2.1 FEASIBLITY STUDY

Feasibility study is made to see if the project on completion will serve the purpose of the organization for the amount of work, effort and the time that spend on it. Feasibility study lets the developer foresee the future of the project and the usefulness. A feasibility study of a system proposal is according to its workability, which is the impact on the organization, ability to meet their user needs and effective use of resources. Thus when a new application is proposed it normally goes through a feasibility study before it is approved for development.

The document provide the feasibility of the project that is being designed and lists various areas that were considered very carefully during the feasibility study of this project such as Technical, Economic and Operational feasibilities. The following are its features:

- **TECHNICAL FEASIBILITY**

The system must be evaluated from the technical point of view first. The assessment of this feasibility must be based on an outline design of the system requirement in the terms of input, output, programs and procedures. Having

identified an outline system, the investigation must go on to suggest the type of equipment, required method developing the system, of running the system once it has been designed.

Technical issues raised during the investigation are:

- Does the existing technology sufficient for the suggested one?
- Can the system expand if developed?

The project should be developed such that the necessary functions and performance are achieved within the constraints. The project is developed within latest technology. Through the technology may become obsolete after some period of time, due to the fact that never version of same software supports older versions, the system may still be used. So there are minimal constraints involved with this project. The system has been developed using Java the project is technically feasible for development.

- **ECONOMIC FEASIBILITY**

The developing system must be justified by cost and benefit. Criteria to ensure that effort is concentrated on project, which will give best, return at the earliest. One of the factors, which

affect the development of a new system, is the cost it would require.

The following are some of the important financial questions asked during preliminary investigation:

- The costs conduct a full system investigation.
- The cost of the hardware and software.
- The benefits in the form of reduced costs or fewer costly errors.

Since the system is developed as part of project work, there is no manual cost to spend for the proposed system. Also all the resources are already available, it give an indication of the system is economically possible for development.

- **BEHAVIORAL FEASIBILITY**

This includes the following questions:

- Is there sufficient support for the users?
- Will the proposed system cause harm?

The project would be beneficial because it satisfies the objectives when developed and installed. All behavioral aspects are considered carefully and conclude that the project is behaviorally feasible.

2.2 INPUT OUTPUT DESIGN

Design is the first step into the development phase for any engineered product or system. Design is a creative process. A good design is the key to effective system. The term “design” is defined as “the process of applying various techniques and principles for the purpose of defining a process or a system in sufficient detail to permit its physical realization”. It may be defined as a process of applying various techniques and principles for the purpose of defining a device, a process or a system in sufficient detail to permit its physical realization. Software design sits at the technical kernel of the software engineering process and is applied regardless of the development paradigm that is used. The system design develops the architectural detail required to build a system or product. As in the case of any systematic approach, this software too has undergone the best possible design phase fine tuning all efficiency, performance and accuracy levels. The design phase is a transition from a user oriented document to a document to the programmers or database personnel. System design goes through two phases of development: Logical and Physical Design.

- **Input design**

The design of input focuses on controlling the amount of input required, controlling the errors, avoiding delay, avoiding extra steps and keeping the process simple. The input is designed in such a way so that it provides security and ease of use with retaining the privacy. Input Design considered the following things:

- What data should be given as input?
- How the data should be arranged or coded?
- The dialog to guide the operating personnel in providing input.
- Methods for preparing input validations and steps to follow when error occur.

- **Output Design**

A quality output is one, which meets the requirements of the end user and presents the information clearly. In output design it is determined how the information is to be displaced for immediate need and also the hard copy output. It is the most important and direct source information to the user. Efficient and intelligent

output design improves the systems relationship to help user decision-making.

Designing computer output should proceed in an organized, well thought out manner; the right output must be developed while ensuring that each output element is designed so that people will find the system can use easily and effectively. When analysis design computer output, they should

- Identify the specific output that is needed to meet the requirements.
- Select methods for presenting information.

Create document, report, or other formats that contain information produced by the system.

2.3 SYSTEM TESTING

Testing is a process of executing a program with the interest of finding an error. A good test is one that has high probability of finding the yet undiscovered error. Testing should systematically uncover different classes of errors in a minimum amount of time with a minimum amount of efforts. Two classes of inputs are provided to test the process

- A software configuration that includes a software requirement specification, a design specification and source code.
- A software configuration that includes a test plan and procedure, any testing tool and test cases and their expected results.

Testing is divided into several distinct operations:

- **Black Box Testing**

Black box testing is done to find out the following information as shown in below:

- Incorrect or missing functions.
- Interface errors.
- Errors or database access.
- Performance error.

- Termination error.

The mentioned testing is carried out successfully for this application according to the user's requirement specification.

- **White Box Testing**

White box testing is defined as the testing of a software solution's internal structure. It is same as normal testing just main difference is that here the code is visible to the tester

Black box testing is done to find out the following information as shown in below:

- Expected Output
- Testing Of Each Statement
- Performance error.
- Termination error.

2.4 SOFTWERE REQUIRMENTS

Operating System -:

Windows 2000, VISTA

Windows XP (Any Service Pack)

Windows 7, 8, 8.1, 10 (both 32-bit & 62-bit)

Office -:

Microsoft Office 2007 & above

Programming Language -:

Microsoft Visual Basic 6.0 (frontend)

Microsoft Access Database 2007 (backend)

Type of Connection -:

ADODC

2.5 HARDWERE REQUIRMENTS

Processor -:

Intel Pentium-III or above, 600 MHz

RAM -:

Minimum 256 Mb RAM Required For System

Hard Disk -:

Total Disk Size Minimum 60 GB or More

Free Space 900 Mb or More

Screen Resolution -:

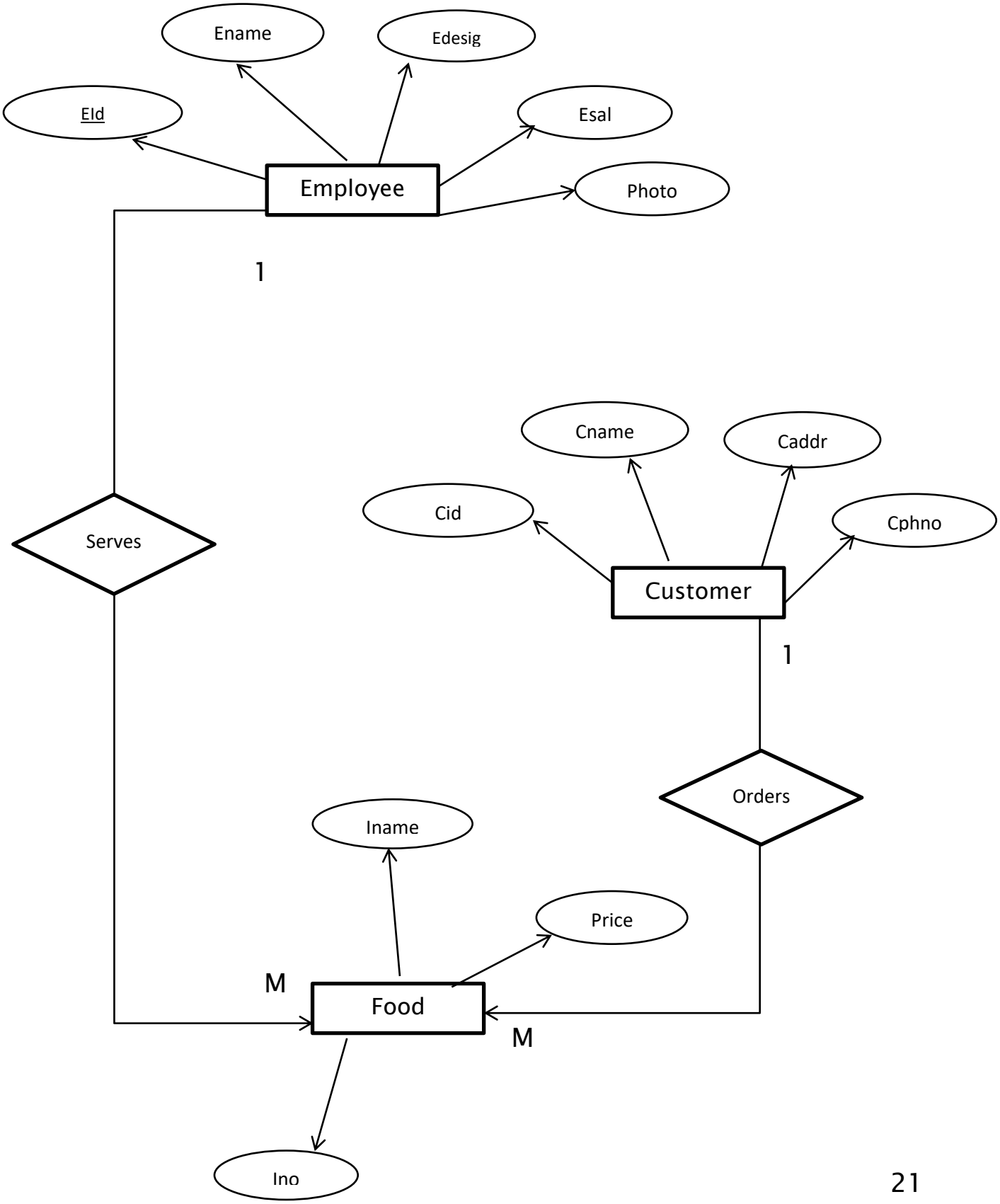
800 x 600, 256 Colour Resolution Minimum

CD-Drive / USB Drive -:

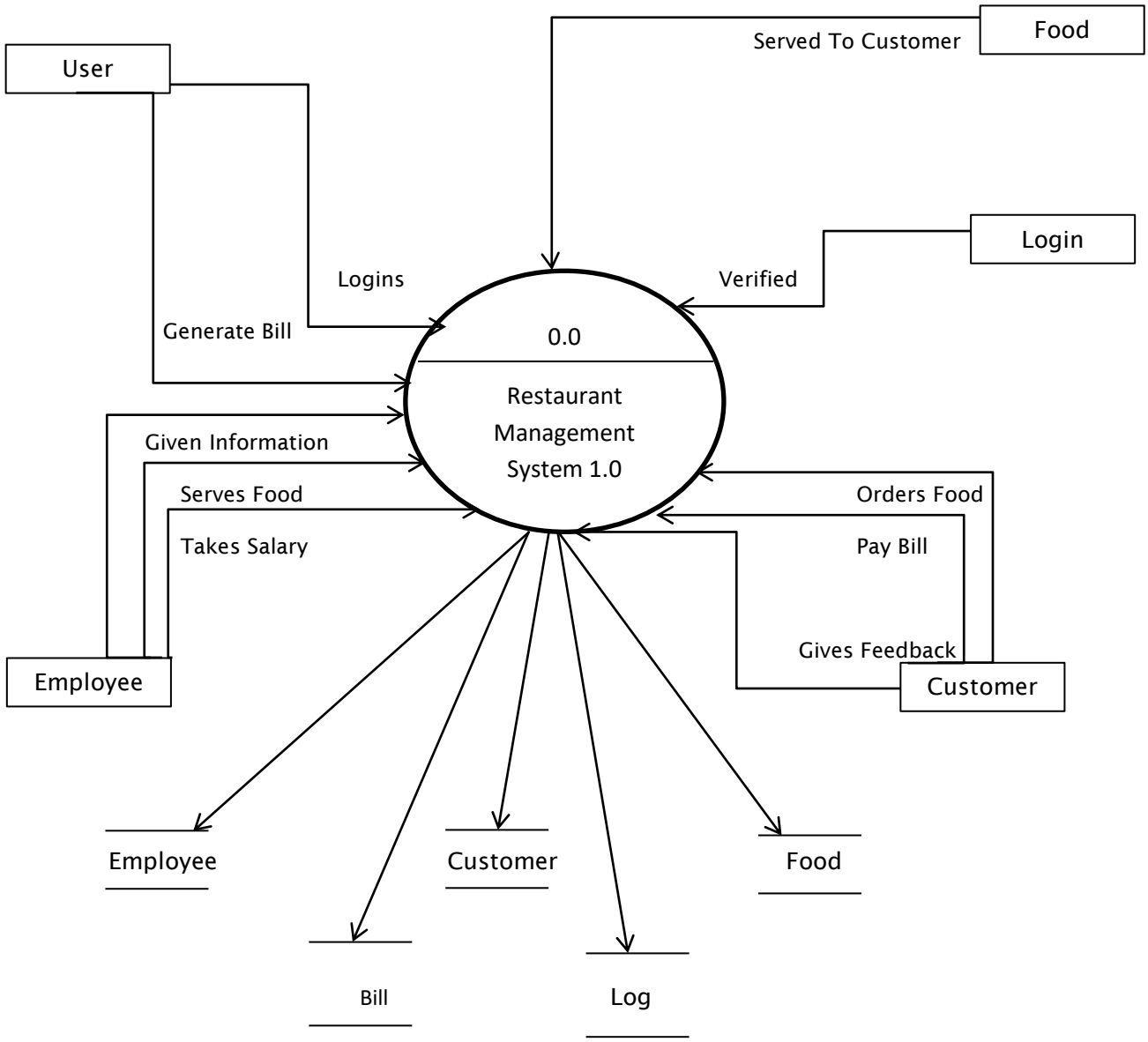
If User Is Using CD or USB Installation

3. SYSTEM DESIGNS

ENTITY RELATIONSHIP DIAGRAM



CONTEXT LEVEL DIAGRAM



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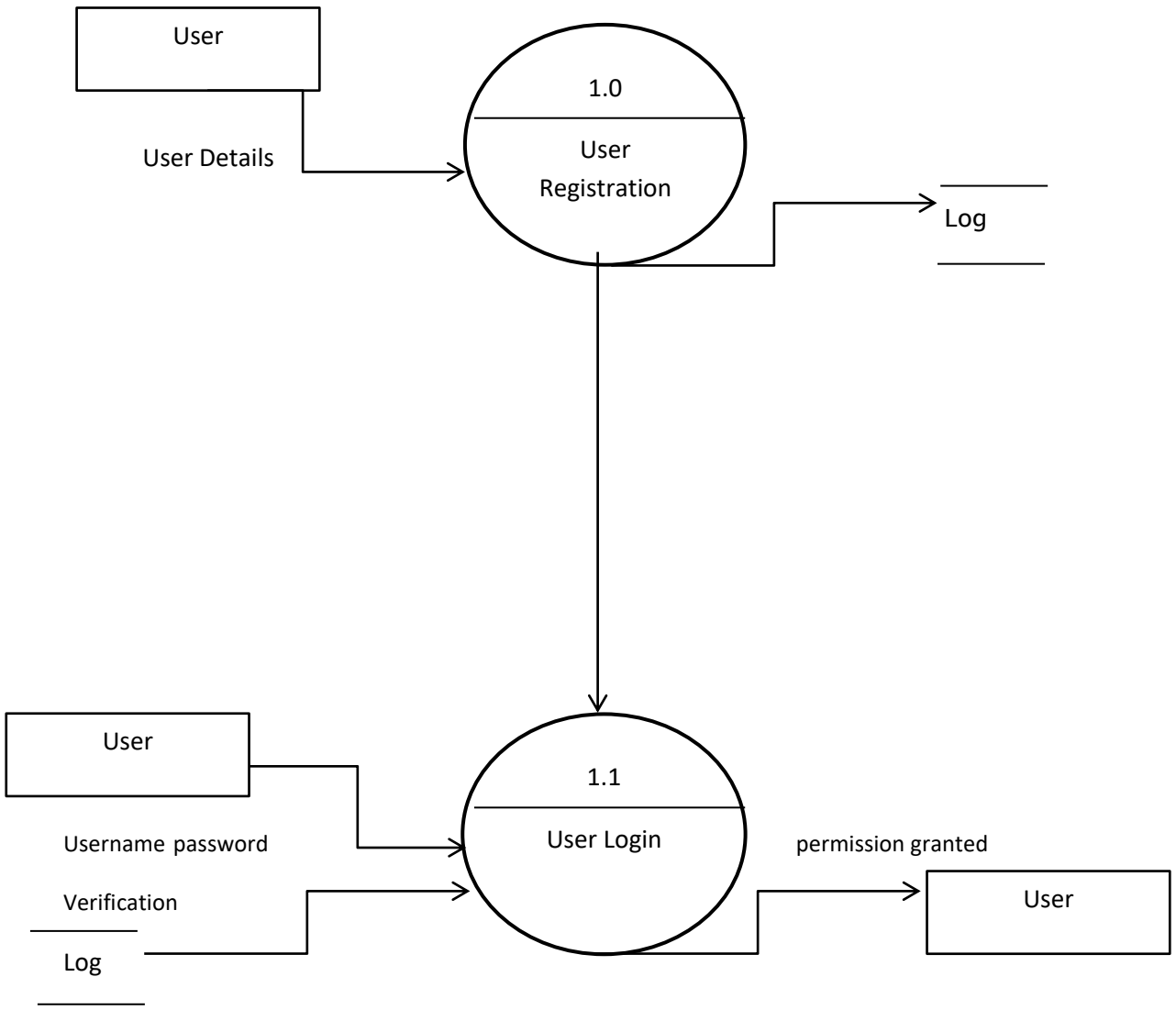
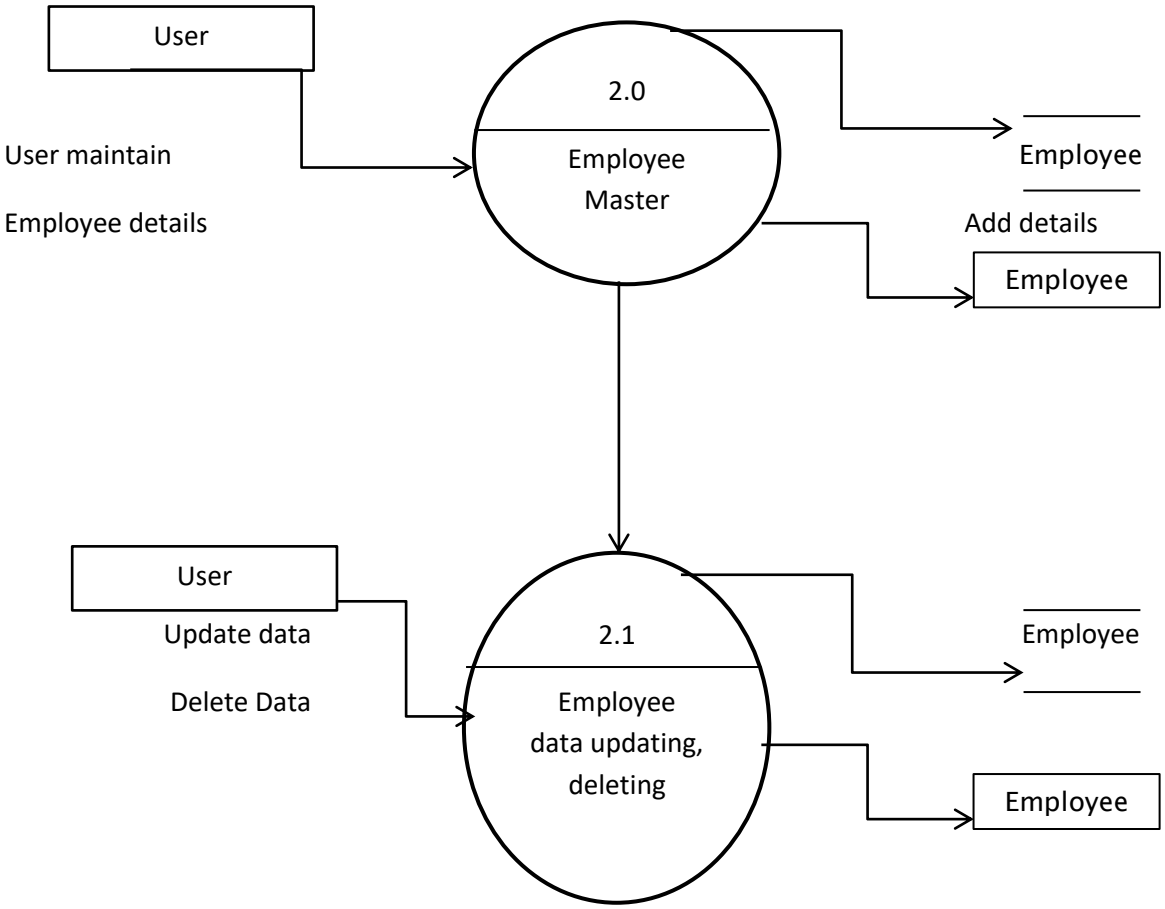
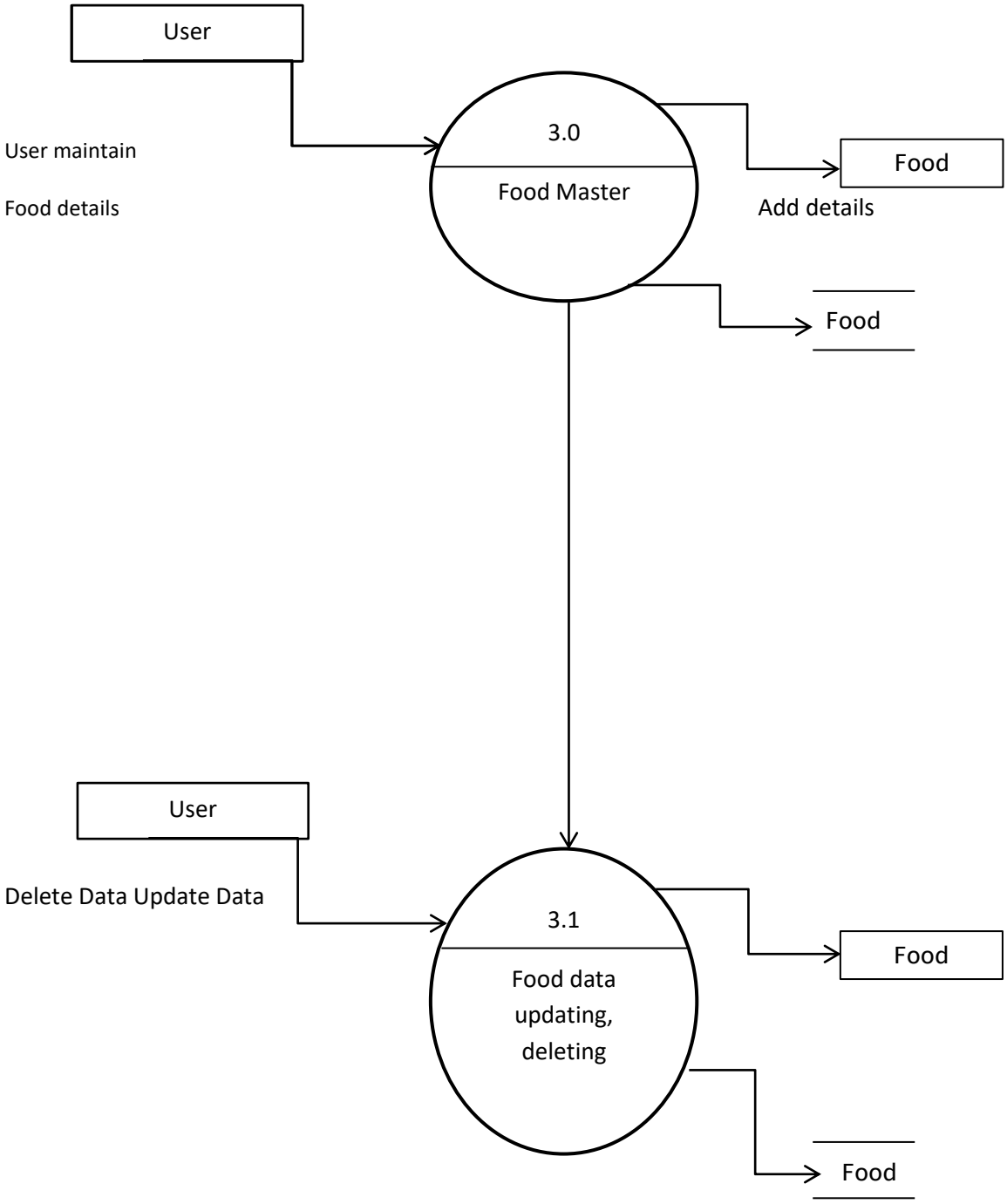
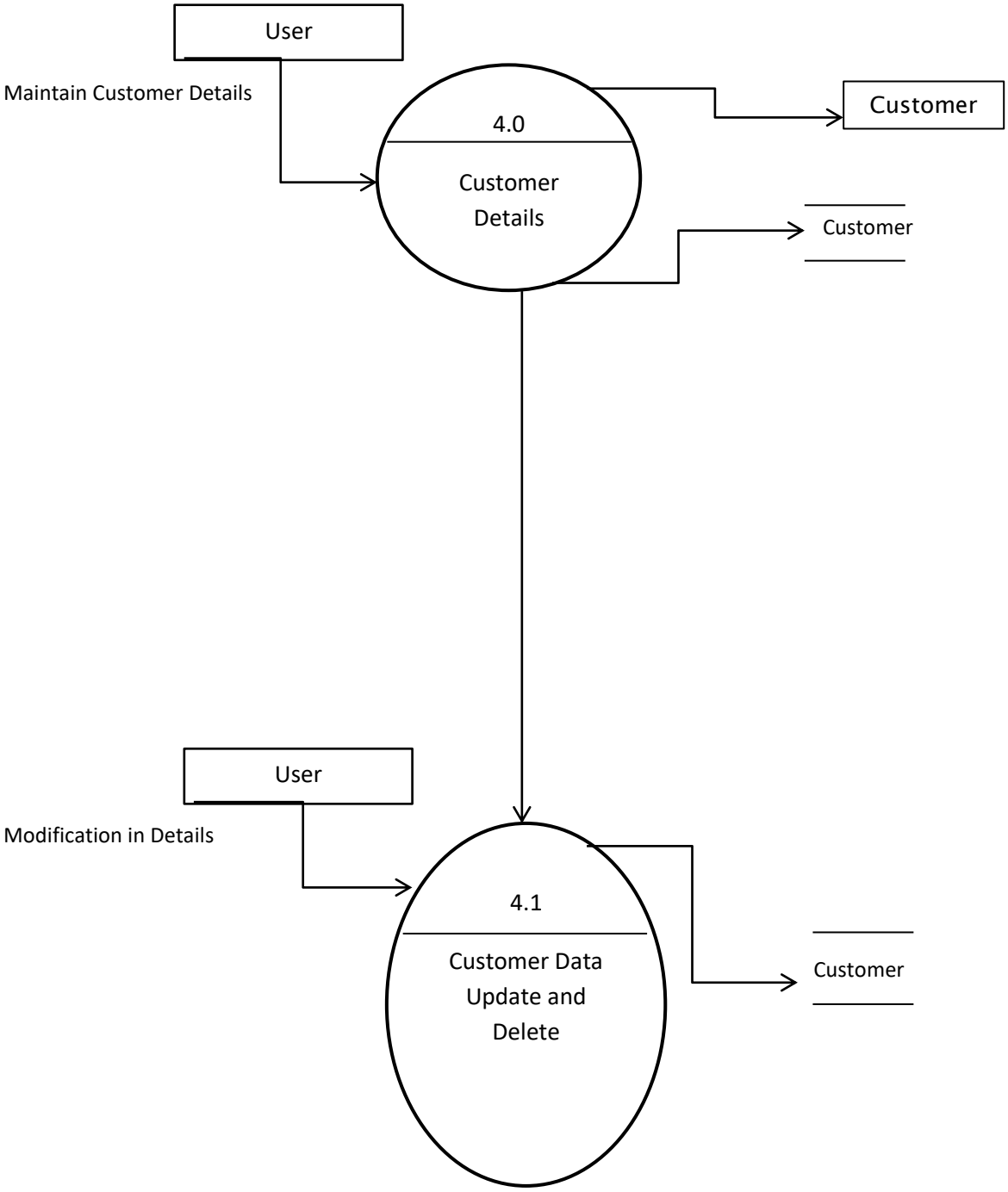
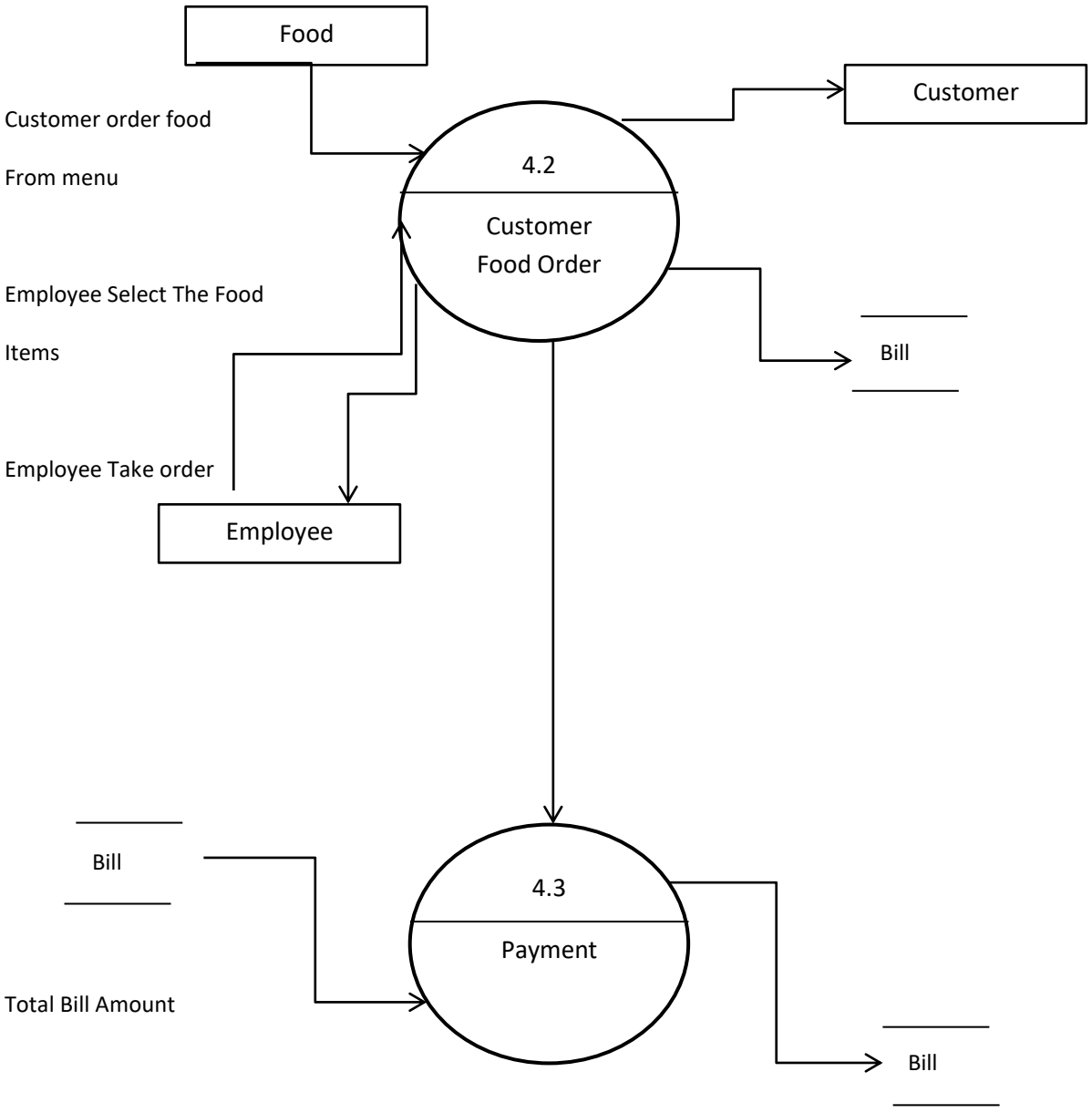
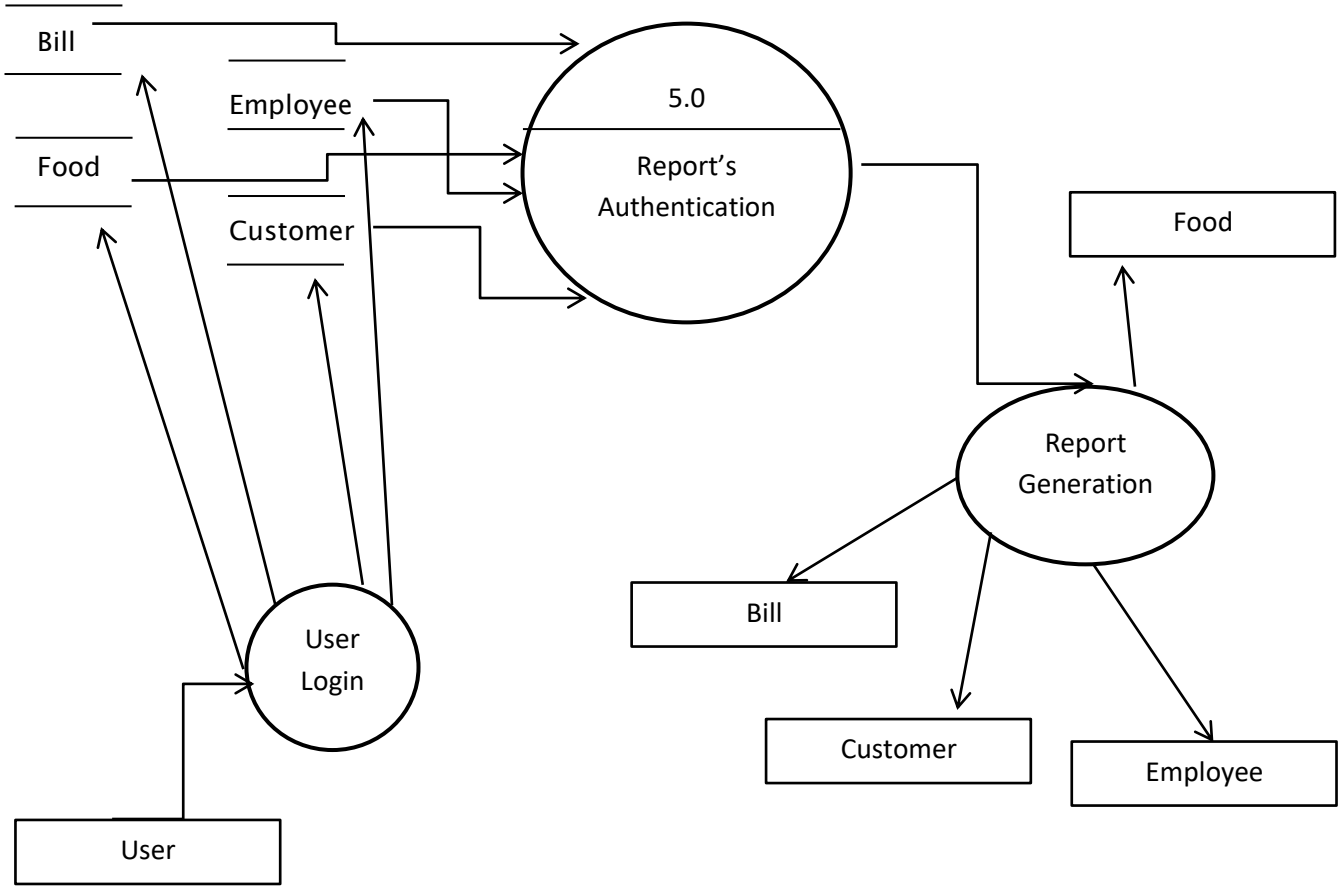

User
User Details
1.0
User
Registration
Log
User
Username password
Verification
Log
1.1
User Login
permission granted
User


User
2.0
Employee
Master
User maintain
Employee details
Employee
Add details
Employee
User
Update data
Delete Data
2.1
Employee
data updating,
deleting
Employee
Employee


User
User maintain
Food details
3.0
Food Master
Food
Add details
Food
User
Delete Data Update Data
3.1
Food data
updating,
deleting
Food
Food

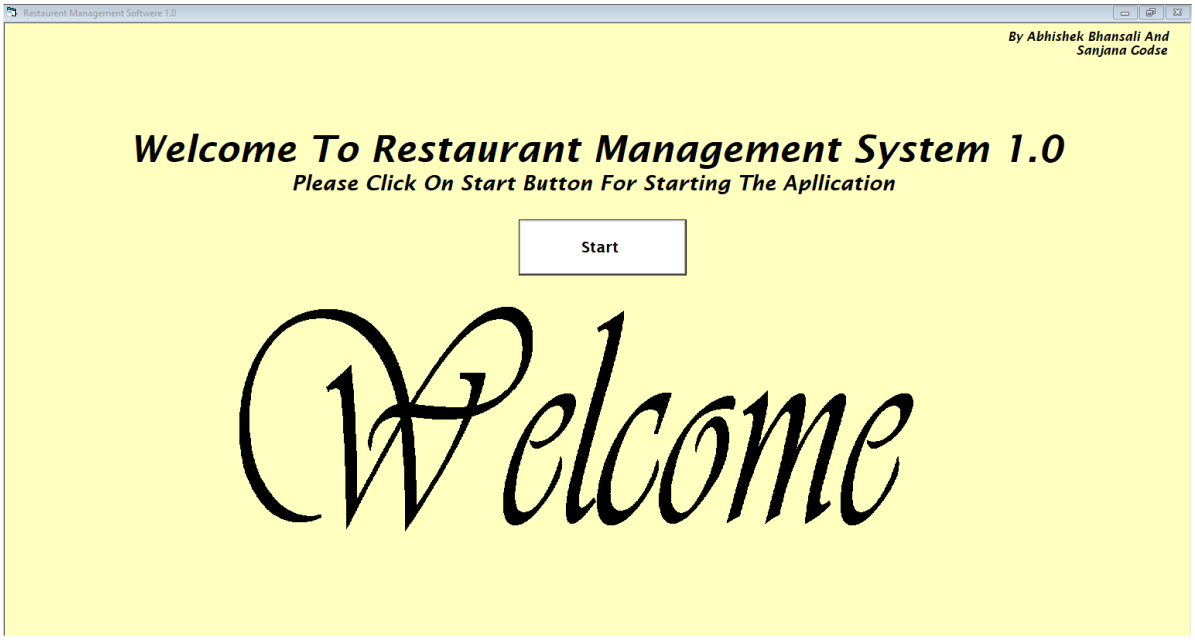

User
Maintain Customer Details
4.0
Customer Details
Customer
Customer
User
Modification in Details
4.1
Customer Data Update and Delete
Customer


Food
Customer
Customer order food
From menu
4.2
Customer
Food Order
Employee Select The Food
Items
Bill
Employee Take order
Employee
Bill
4.3
Payment
Total Bill Amount
Bill


Bill
Employee
Food
Customer
5.0
Report's
Authentication
Food
Report
Generation
Bill
Customer
Employee
User
Login
User

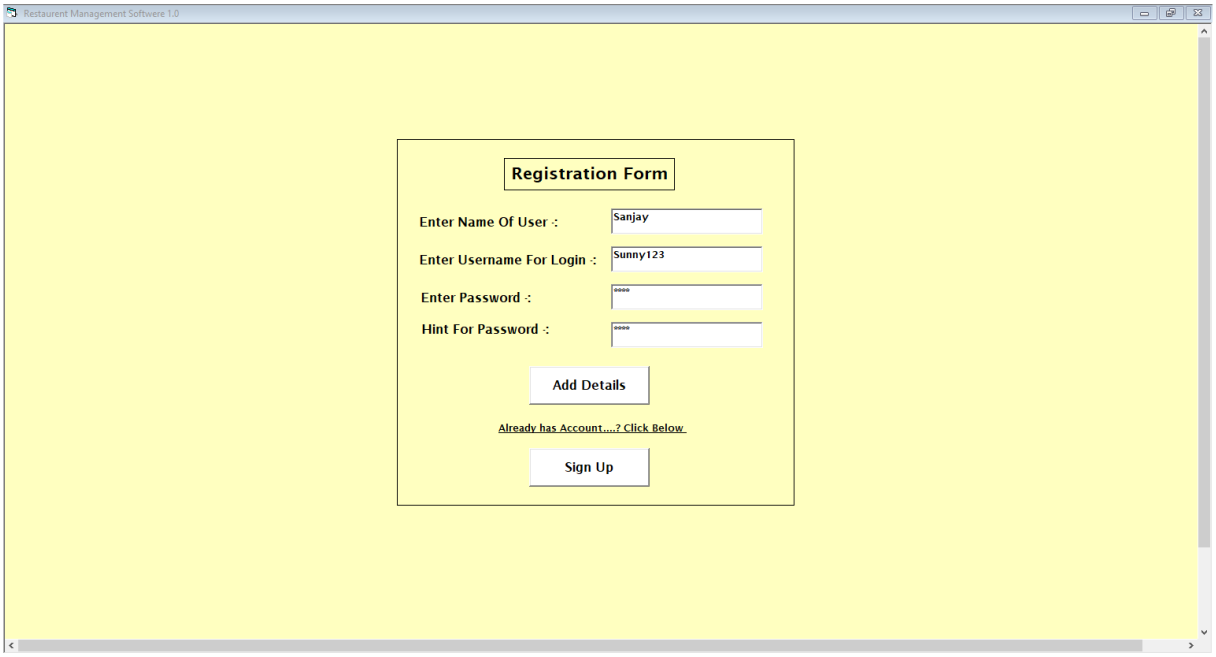
4. SYSTEM FORMS

Welcome Screen:-

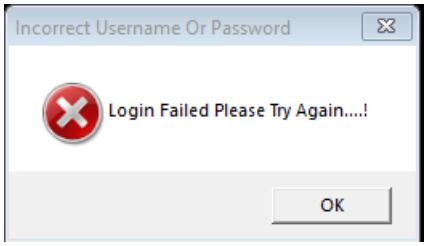


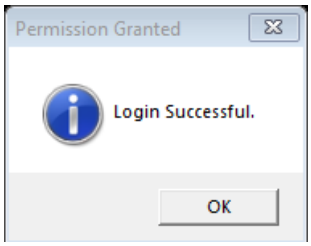
Splash Screen:-

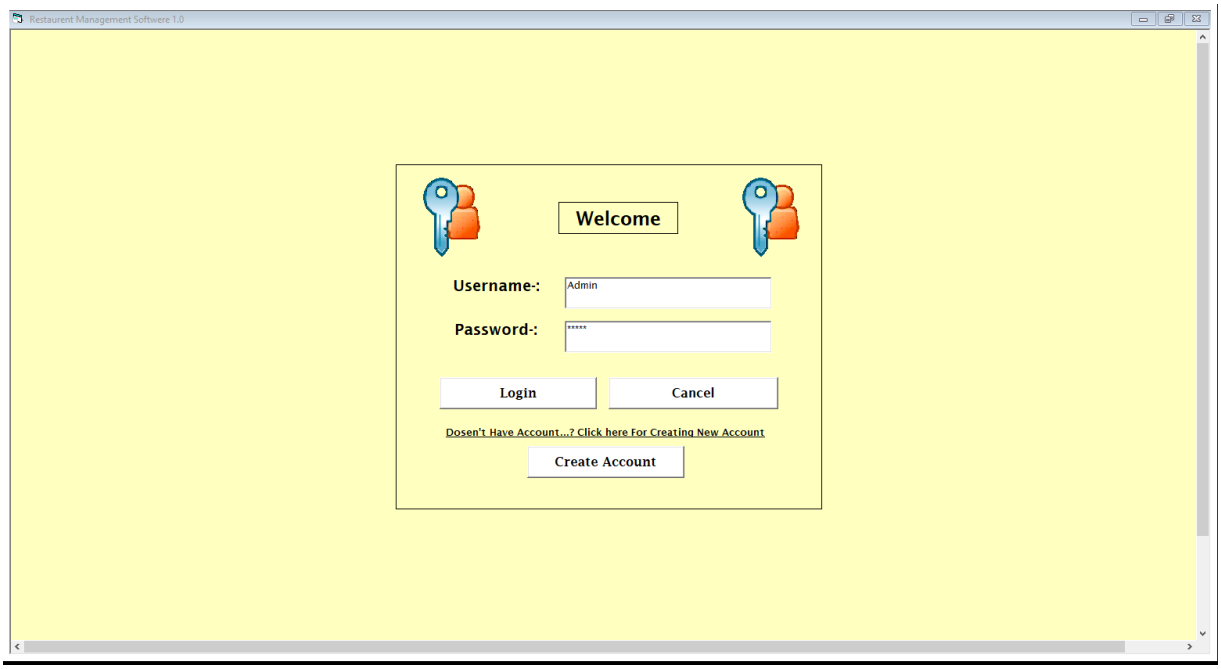
Registration Screen:-



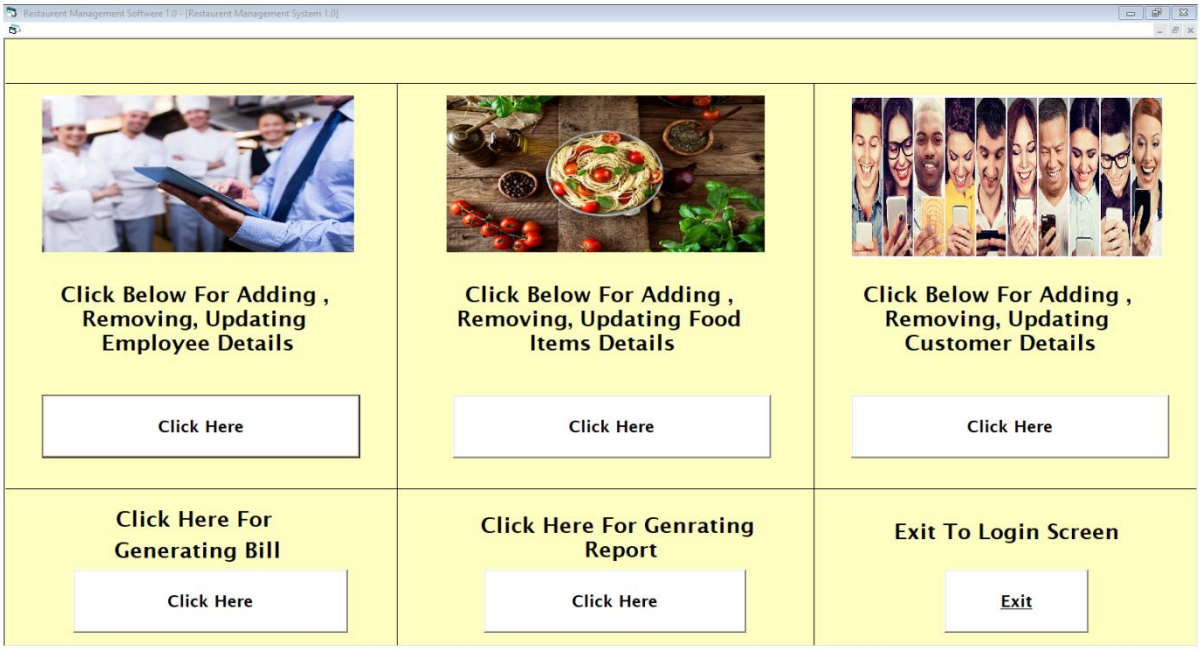
Login Screen With Wrong & Right Password:-



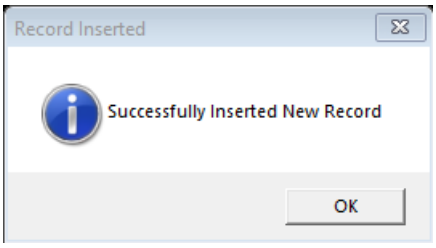


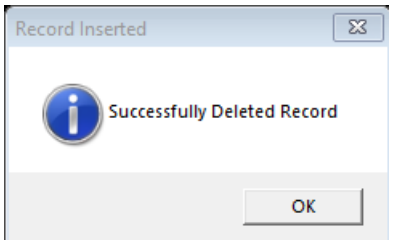


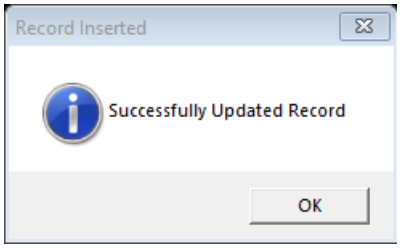
Front Screen:-

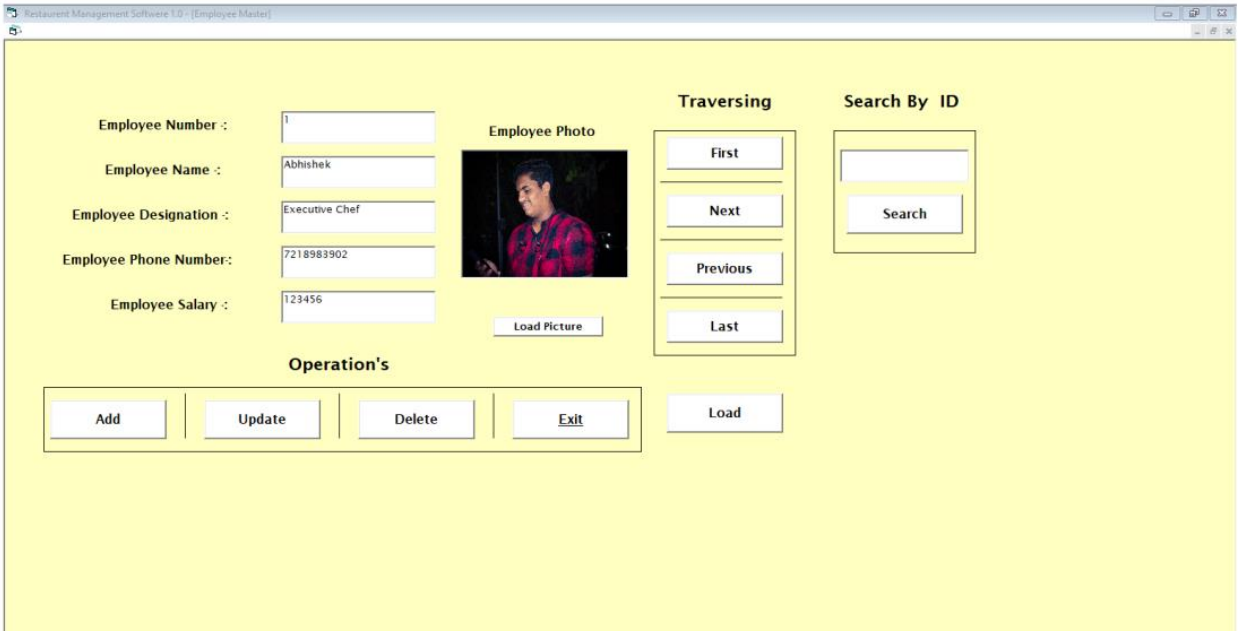


Employee Details Screen With Add, Update & Delete Operation:-

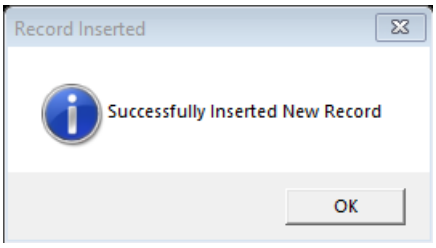


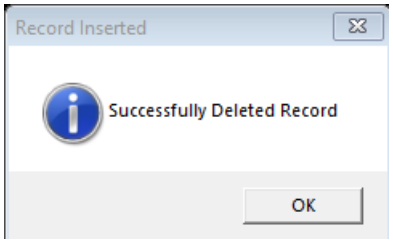


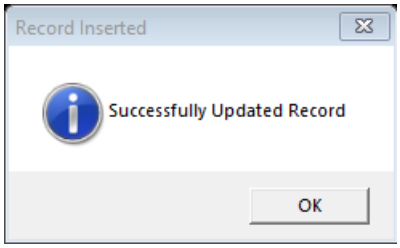


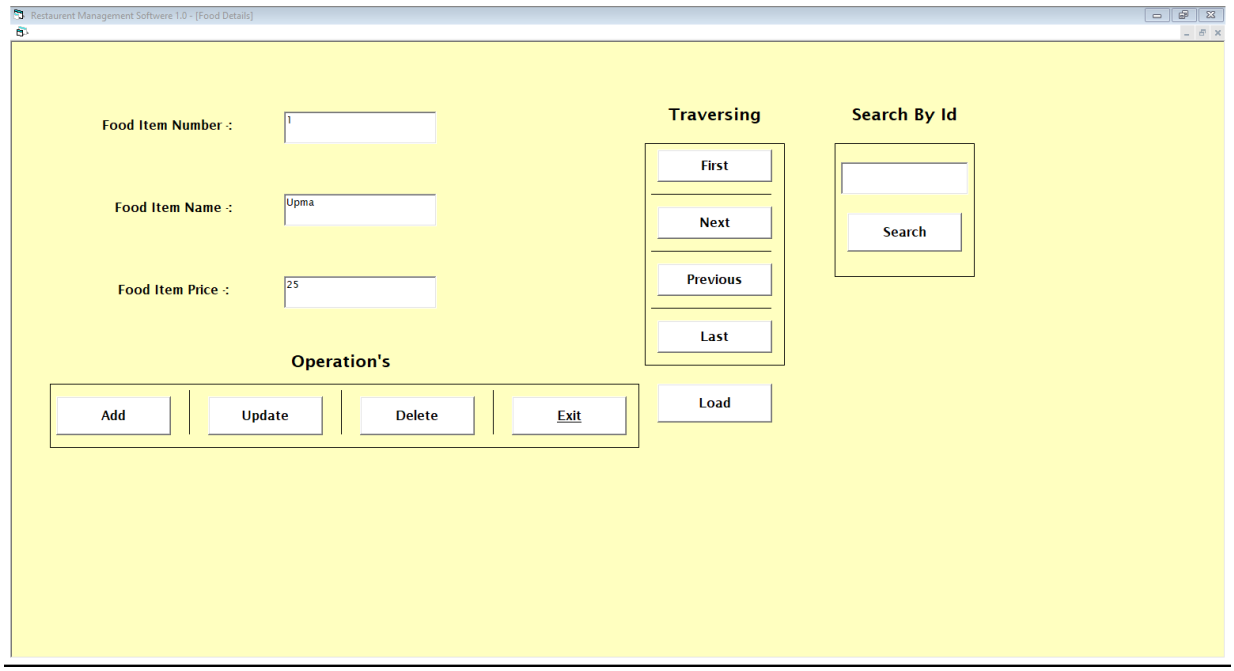


Food Details Screen With Add, Update & Delete Operation:-

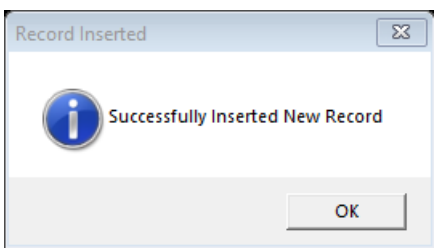


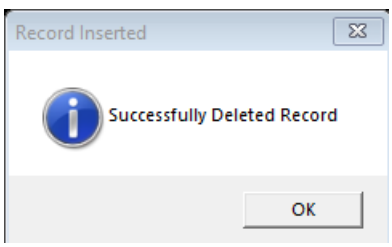


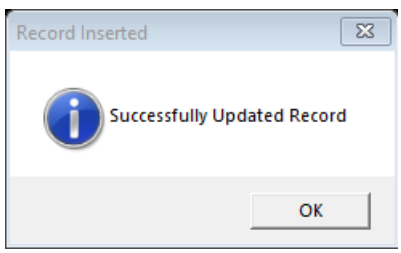


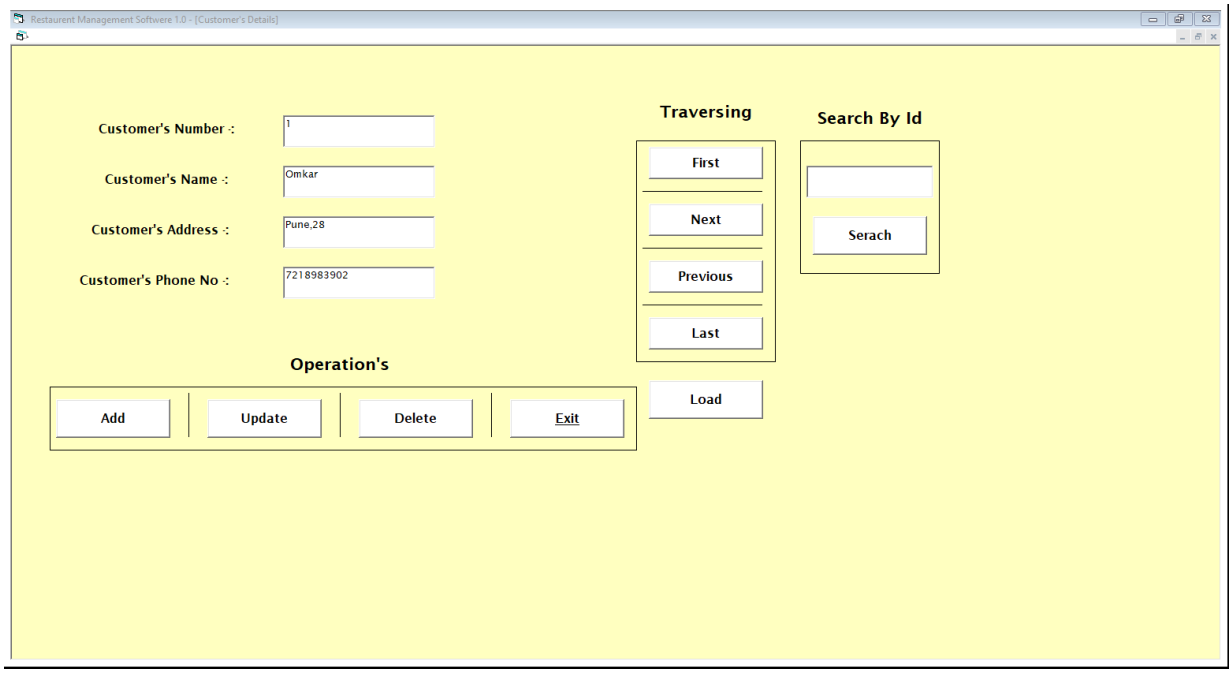


Food Details Screen With Add, Update & Delete Operation:-

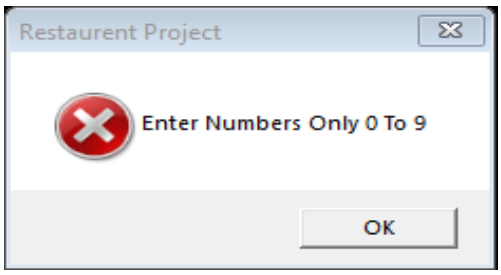


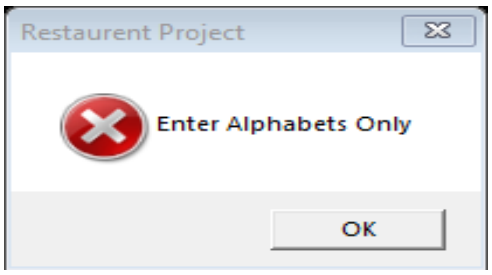




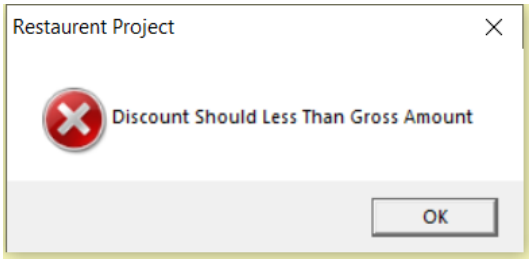


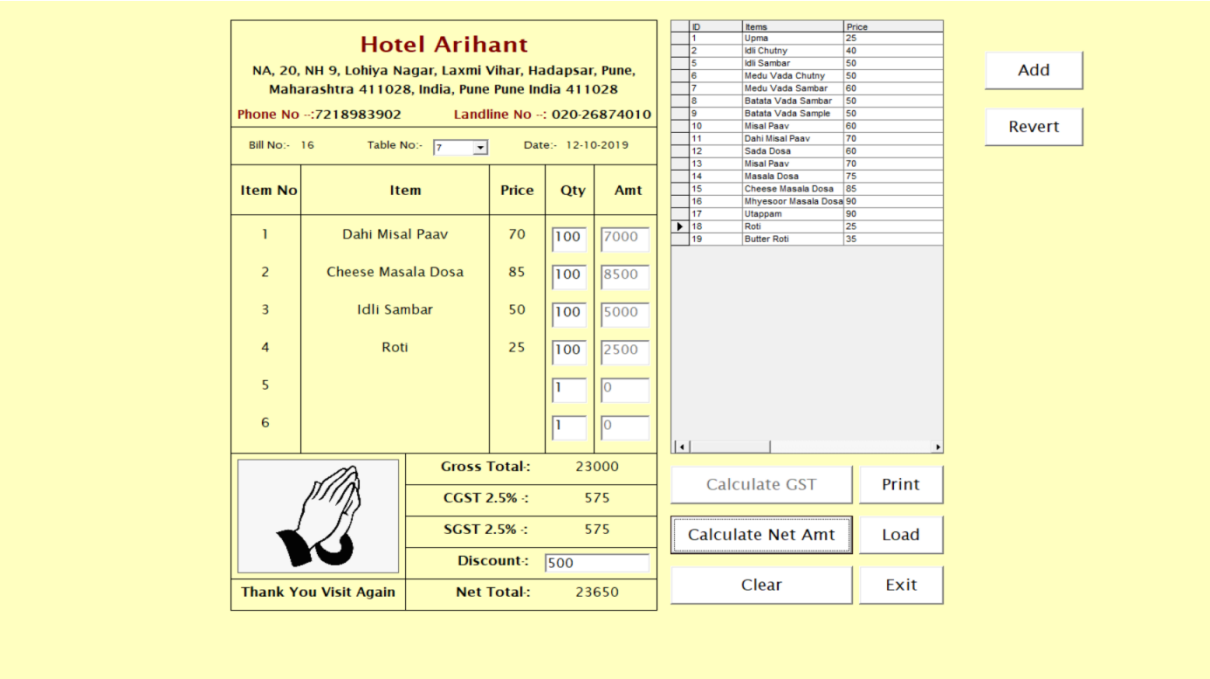
Validations:-



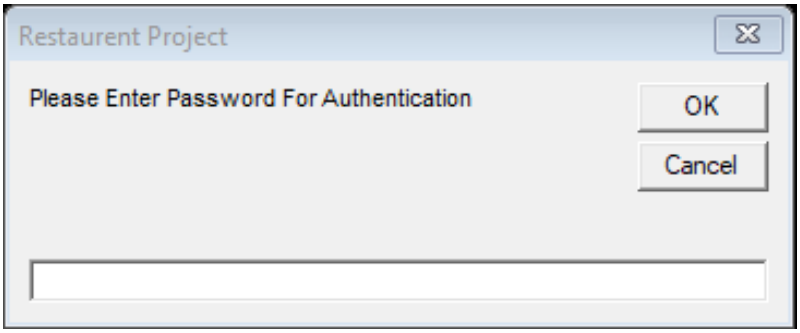


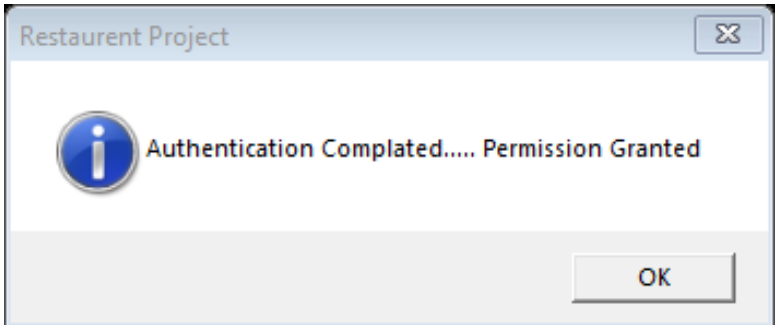
Billing Screen & Validations:-

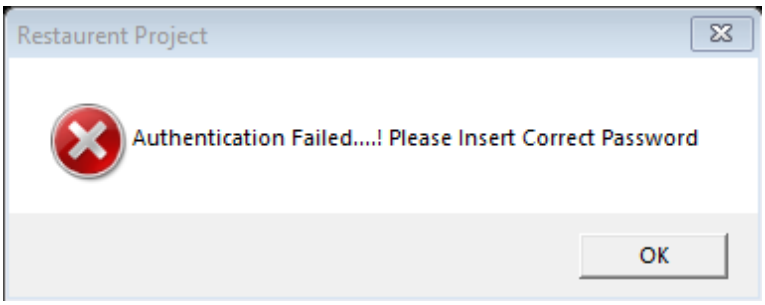


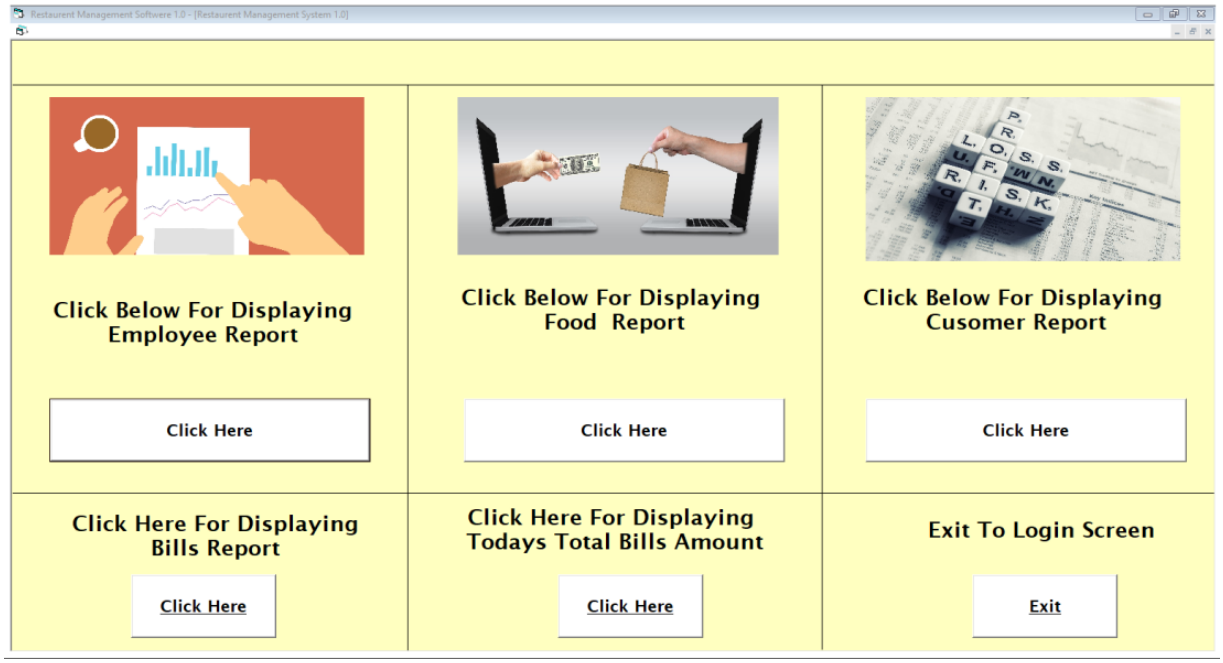


Report Screen & Authentication Of User:-



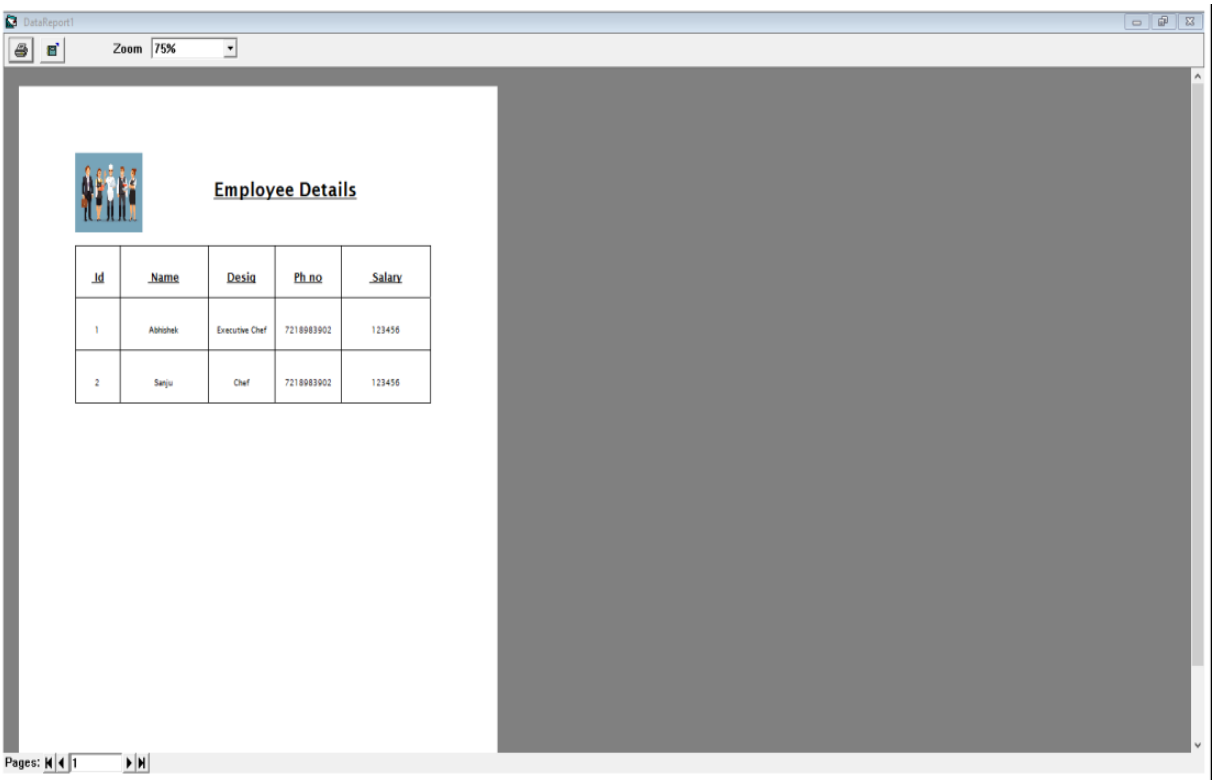




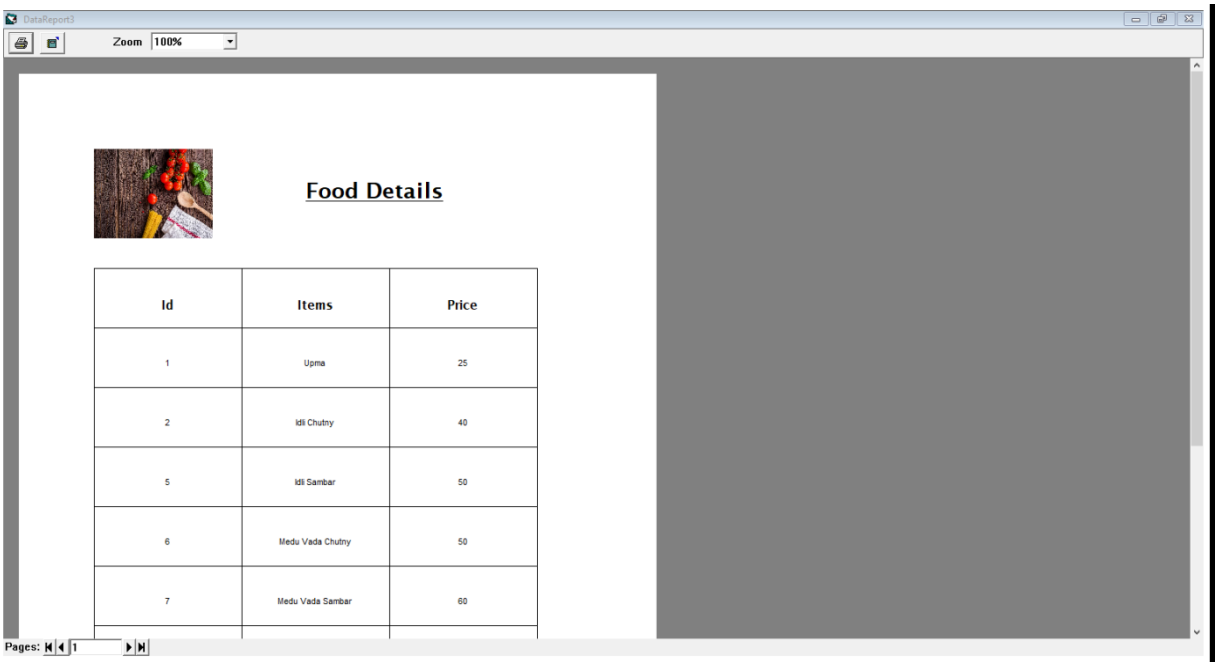


Report's:-

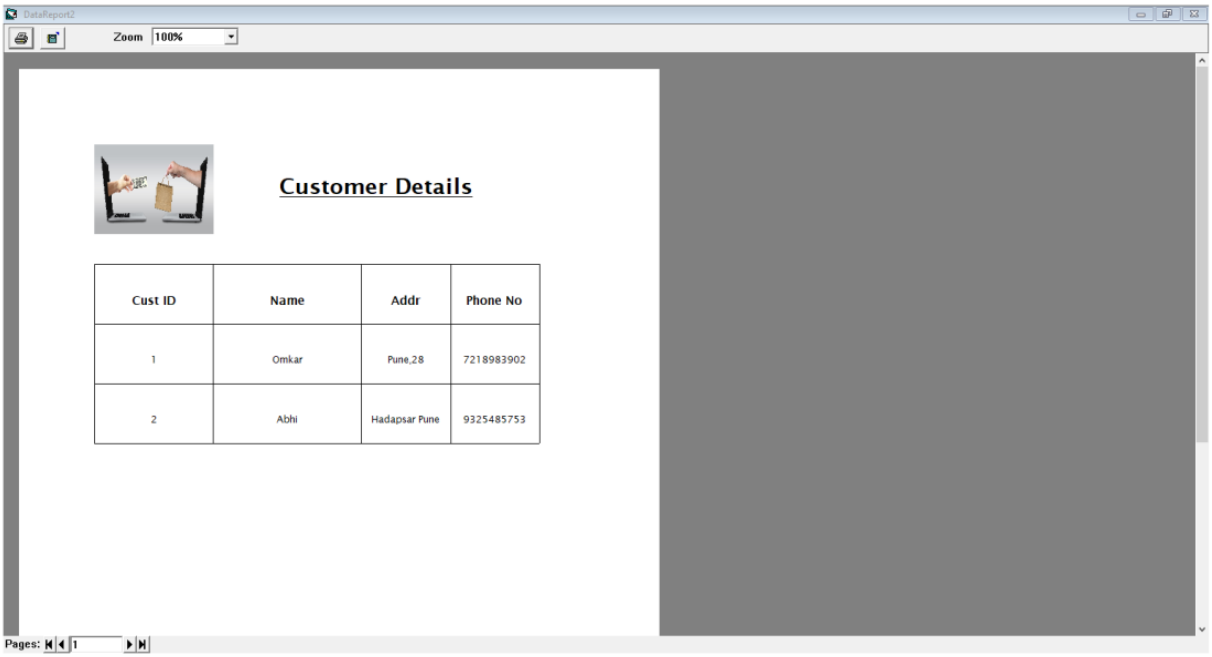
Employee:-



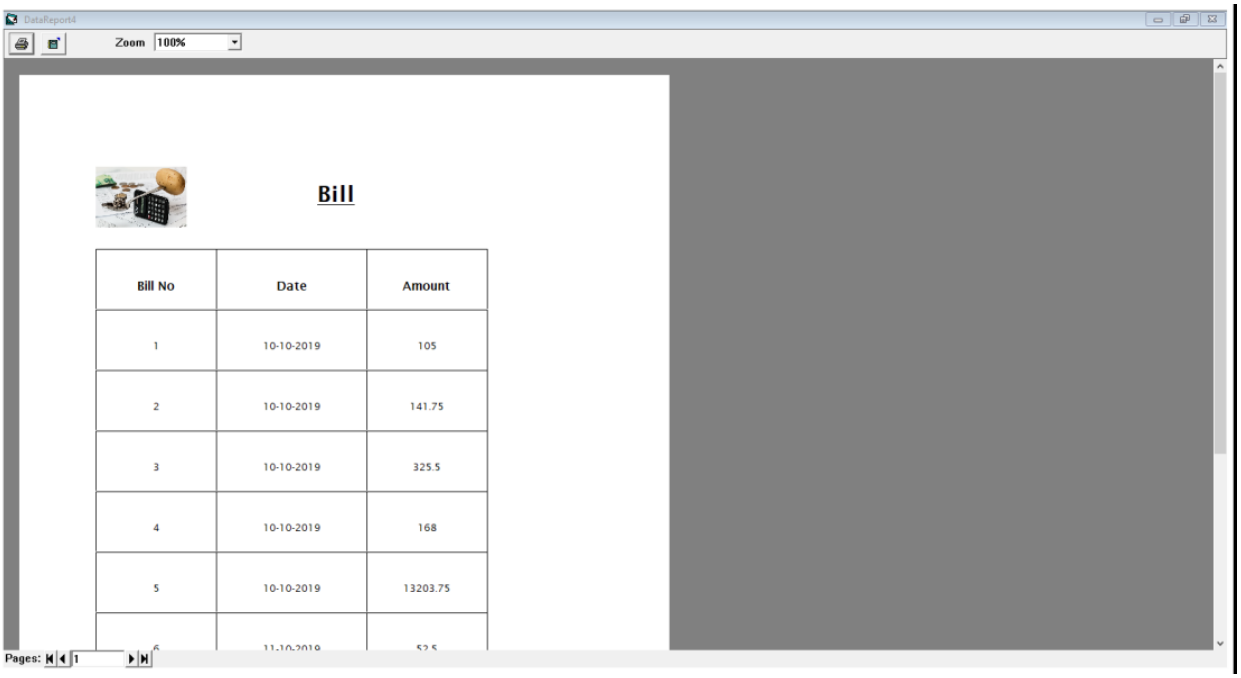
Food:-



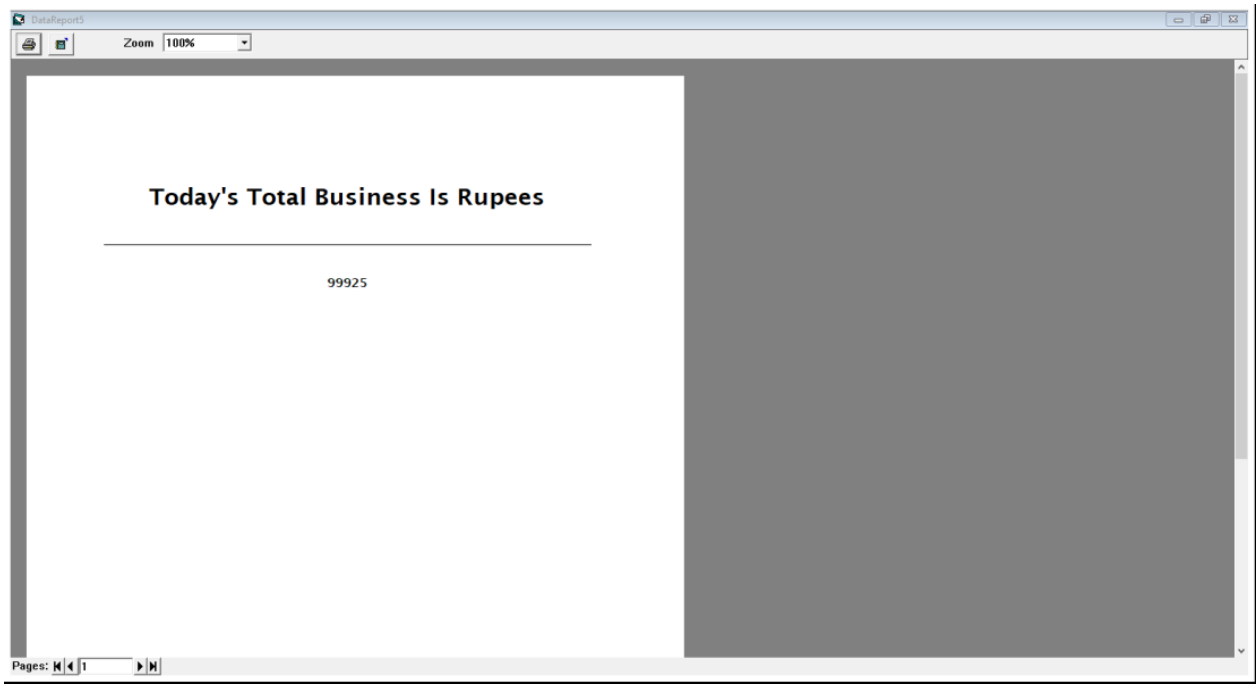
Customer:-



Bills:-



Total Amount Of Present Day:-



5. Data Dictionary

Food Table:-

Food

Field Name	Data Type	
ID	Number	The Id Store The Value For Food id
Items	Text	It Is Used To Store The Name Fo Food item
Price	Currency	Price Is Stored In Price Feild

Employee Table:-

Emp

Field Name	Data Type	
Id	Number	Employee Id Is Stored In This Field
Name	Text	Name Is Stored
Desig	Text	Designation Of Employee
Phno	Text	Phone Number Of Employee
Sal	Text	Total Salary Of Employee Is Stored
Photo	Memo	The Location Of Employees Photo Is Stored Here

Customer Table:-

Cust

Field Name	Data Type	
Cust ID	Number	Customer Unique Id Is Stored In The Cust Id Field
Cust Name	Text	Name Of The Customer
Cust Add	Text	Address Of Customer Is Stored Here
Phone	Text	Phone Number Is Stored For Marketing

Bills Table:-

Billl

Field Name	Data Type	
Bno	Number	The Unique Number Of Bill Is Stored Here
bdate	Date/Time	Date Of Bill
amt	Currency	Net Amount Is Stored Here

Login Table:-

Log

Field Name	Data Type	
Username	Text	The User Name Is Stored In This Feild
Password	Text	Password Is Stored Here
Name	Text	The Name Of User IS Stored Here
Hint	Text	Hint For Future Purpose It Is Stored

6. FUTURE ENHANCEMENTS

- We Can Update This System Into Fully Functionally Online System Also With The Help Of Network Component's
- User Can Take Order From Swiggy, Uber Eats Etc. Companies
- For The Marketing Purpose The Auto Generated Message Of Offers Will Be Delivered To The User Directly
- Here The Employee Daily Work We Can Add In Future Updates
- The Bugs And Some Logical Errors Will Solved In The Next Update
- The Best Security Also We Can Provide In Next Update
- Table Reservation Is Also Possible In Future By User With The Help Of Mobile

7. BIBLIOGRAPHY

BOOKS

- A Complete Guide to Programming in Visual Basic 6.0
- A Complete Visual Basic 6 Training Course: How to Programmed Package
- Advanced Programming Using Visual Basic: Version 6.0
- Access 2003 Power Programming with VBA
- Advanced MS Visual Basic

ONLINE HELP

- Sandeep Kulkarni YouTube Chanel
- Ramdas Biradar Wbsite
- www.1000projects.com