

**A project report  
on  
ONLINE FOOD ORDERING SYSTEM**

Submitted in partial fulfillment of the  
requirements for the award of degree of

**Bachelor of Technology  
in  
Computer Science & Engineering**

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## **CERTIFICATE**

This is to certify that the project work entitled **FOOD ORDERING SYSTEM** Is a bonafide work carried out by **Satyam kumar(1613101634)** is partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGU IN COMPUTER SCIENCE ENGINEERING by GALGOTIAS UNIVERSITY, Greater noida under our guidance supervision.

The results embodied in this report have not been submitted to any other university or institute for the award of any degree or diploma.

Mr.Tarun Kumar

## **Student's Declaration**

I hereby declare that the work being presented in this report entitled "**ONLINE FOOD ORDERING SYSTEM**" is an authentic record of my own work carried out under the supervision of Mr. Tarun kumar .

The matter embodied in this report has not been submitted by me for the award of any other degree.

**Dated :Signature of student**

**(SATYAM KUMAR)**

**Department:SCSE**

## **ACKNOWLEDGEMENT**

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**Signature of Student**  
**(Satyam kumar)**

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## Abstract

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The purpose of Online Food Ordering 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. The required software and hardware are easily available and easy to work with.

Online Food Ordering System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

The aim is to automate its 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. Basically the project describes how to manage for good performance and better services for the clients.



# CHAPTER-1

## Introduction

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### INTRODUCTION

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The "Online Food Ordering System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly. Online Food Ordering System , as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources.

Every organization, whether big or small, has challenges to overcome and managing the information of Food item, Customer, Delivery Address, Order.

## Objectives of the project

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The main objective of the Project on Online Food Ordering System is to manage the details of Food Item and Customer, Order. It manages all the information about Food, Delivery Address, Order, Food. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Food Item, Delivery Address. It tracks all the details about the Customer, Order.

### **Functionalities provided by Online Food Ordering System are as follows:**

- Online Food Ordering System also manage the Delivery Address details online for Customer details, Order details, Food.
- It deals with monitoring the information and transactions of Customer.
- Manage the information of Customer
- Integration of all records of Order.
- To increase efficiency of managing the Food
- Shows the information and description of the Food,

- Editing, adding and updating of Records is improved which results in proper resource management of Food data.

## CHAPTER-2

### Literature Review

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#### Identification of need:

The old manual system was suffering from a series of drawbacks. Since whole of the system was to be maintained with hands the process of keeping, maintaining and retrieving the information was very tedious and lengthy. The records were never used to be in a systematic order. there used to be lots of difficulties in associating any particular transaction with a particular context. If any information was to be found it was required to go through the different registers, documents there would never exist anything like report generation. There would always be unnecessary consumption of time while entering

records and retrieving records. One more problem was that it was very difficult to find errors while entering the records. Once the records were entered it was very difficult to update these records.

The reason behind it is that there is lot of information to be maintained and have to be kept in mind while running the business .For this reason we have provided features Present system is partially automated (computerized), actually existing system is quite laborious as one has to enter same information at three different places.

**Following points should be well considered:**

- Documents and reports that must be provided by the new system: there can also be few reports, which can help management in decision-making and cost controlling, but since these reports do not get required attention, such kind of reports and information were also identified and given required attention.
- Details of the information needed for each document and report.
- The required frequency and distribution for each document.
- Probable sources of information for each document and report.
- With the implementation of computerized system, the task of keeping records in an organized manner will be solved. The greatest of all is the retrieval of information, which will be at the click of the mouse. So the proposed system helps in saving the time in different operations and

making information flow easy giving valuable reports.

## **Feasibility Study**

After doing the project Online Food Ordering System, study and analyzing all the existing or required functionalities of the system, the next task is to do the feasibility study for the project. All projects are feasible - given unlimited resources and infinite time. Feasibility study includes consideration of all the possible ways to provide a solution to the given problem. The proposed solution should satisfy all the user requirements and should be flexible enough so that future changes can be easily done based on the future upcoming requirements.

**A. Economical Feasibility:**

This is a very important aspect to be considered while developing a project. We decided the technology based on minimum possible cost factor.

- All hardware and software cost has to be borne by the organization.
- Overall we have estimated that the benefits the organization is going to receive from the proposed system will surely overcome the initial costs and the later on running cost for system.

### **B. Technical Feasibility:**

This included the study of function, performance and constraints that may

affect the ability to achieve an acceptable system. For this feasibility study, we studied complete functionality to be provided in the system, as described in the System Requirement Specification (SRS), and checked if everything was possible using different type of frontend and backend platformst.

### **C. Operational Feasibility :**

No doubt the proposed system is fully GUI based that is very user friendly and all inputs to be taken all self-explanatory even to a layman. Besides, a proper training has been conducted to let know the essence of the system to the users so that they feel comfortable with new system. As far our study is concerned the clients are comfortable and happy as the system has cut down their loads and doing.

## **Preliminary Product Description:**

The first step in the system development life cycle is the preliminary investigation to determine the feasibility of the system. The purpose of the preliminary investigation is to evaluate project requests. It is not a design study nor does it include the collection of details to describe the business system in all respect. Rather, it is the collecting of information that helps committee members to evaluate the merits of the project request and make an informed judgment about the feasibility of the proposed project.

Analysts working on the preliminary investigation should accomplish the following objectives:

- Clarify and understand the project request .
- Determine the size of the project.
- Assess costs and benefits of alternative approaches.
- Determine the technical and operational feasibility of alternative approaches.
- Report the findings to management, with recommendations outlining the acceptance or rejection of the proposal.

### **Benefit to Organization**

The organization will obviously be able to gain benefits such as savings in operating cost, reduction in paperwork, better utilization of human resources and more presentable image increasing goodwill.

### The Initial Cost:

The initial cost of setting up the system will include the cost of hardware software (OS, add-on software, utilities) & labour (setup & maintenance). The same has to bear by the organization.

### Running Cost

Besides, the initial cost the long term cost will include the running cost for the system including the AMC, stationary charges, cost for human resources, cost for update/renewal of various related software.

### Need for Training

The users along with the administrator need to be trained at the time of implementation of the system for smooth running of the system. The client will provide the training site.

We talked to the management people who were managing a the financial issues of the center, the staff who were keeping the records in lots of registers and the reporting manager regarding their existing system, their requirements and their expectations from the new proposed system. Then, we did the system study of the entire system based on their requirements and the additional features they wanted to incorporate in this system.

Reliable, accurate and secure data was also considered to be a complex task without this proposed system. Because there was no such record for keeping track of all the activities, which was done by the Online Food Ordering System on the daily basis.

The new system proposed and then developed by me will ease the task of the organization in consideration. It will be helpful in generating the required reports by the staff, which will help them to track their progress and services.

Thus, it will ease the task of Management to a great extent as all the major activities to be performed, are computerized through this system.



## Project Category

Relational Database Management System (RDBMS) : This is an RDBMS based project which is currently using MySQL for all the transaction statements.

MySQL is an opensource RDBMS System.

## Brief Introduction about RDBSM :

A relational database management system (RDBMS) is a database management system (DBMS) that is based on the relational model as invented by E. F. Codd, of IBM's San Jose Research Laboratory. Many popular databases currently in use are based on the relational database model.

RDBMSs have become a predominant choice for the storage of information in new databases used for financial records, manufacturing and logistical information, personnel data, and much more since the 1980s. Relational databases have often replaced legacy hierarchical databases and network databases because they are easier to understand and use. However, relational databases have been challenged by object databases, which were introduced in an attempt to address the object-relational impedance mismatch in relational database, and XML databases.

# CHAPTER-3

## Problem Definition

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### Modules

- **Menu Items Module:** Used for managing the Food details.
- **Order Module :** Used for managing the details of Order
- **Delivery Address Module :** Used for managing the details of Delivery Address.
- **Home page module:** Used for accessing all the modules.

# HOME PAGE MOUULE

## ***Functionalities:***

- Source to go to the menu model to view the food items available in the restaurant.
- Source to go to the order module for placing the order directly.
- It helps to get through the information about the restaurant.
- It also has the contact details of the restaurant.

# MENU ITEMS MODULE

## **Functionality:**

- One can view all the food items .
- Food items are distributed in the categories as starters,main course and deserts.
- Prices of the food items are also mentioned in this module.
- Prices are mentioned in front of the food items as serving for per plate.
- Source to go to the order placing module.

- Source to go back to the home page.

## DELIEVERY ADDRESS MODULE

### Functionality:

- Allows to enter the first name.
- Allows to enter the last name.
- Allows to enter the delievery address.
- Allows to enter contact number and these fields will only accept digits (i.e;don't accept alphates or symbols as input.) .
- Source to review the orders .
- Source to submit the details then these details get stored in the database.
- When one submits the details ,dialog box appears that allows to confirm the order by selecting 'yes' option or to not place order by selecting 'no' option.
- If one selects 'yes' option then the order is placed,and another message box appears that display the message that your order has been confirmed along with the total amount of the order.

- Allows to enter the email\_id.

## ORDER PLACING MODULE

### Functionality:

- It has all food items name separately in different labels rather than in a list to make the interface more easy ,understandable and user-friendly.
- Prices per plate are also mentioned in front of food items .
- There is a field that allow to enter the quantity as per requirement in front of each food item.
- There is also a field in front of quantity field that help the user to view the total amount according to their quantity for that particular food item .
- This amount field doesn't allow to enter any kind of input into the field (i.e;the user can only read the information into this field).
- At the corner there is a total amount option that calculates the total amount of the whole order by clicking on it.
- There is also a reset option.

- Source to move further for placing order.
- Also a back button.

## SOFTWARE / HARDWARE

### Software Requirement Specification

The Software Requirements Specification is produced at the culmination of the analysis task. The function and performance allocated to software as part of system engineering are refined by establishing a complete information description, a detailed functional and behavioral description, an indication of performance requirements and design constraints, appropriate validation criteria, and other data pertinent to requirements.

### The proposed system has the following requirements:

- System needs store information about new entry of Food.
- System needs to help the internal staff to keep information of Item Category and find them as per various queries.
- System need to maintain quantity record.
- System need to keep the record of Shopping Cart.
- System need to update and delete the record.
- System also needs a search area.

- It also needs a security system to prevent data.

## SOFTWARE / HARDWARE

### SOFTWARE REQUIRED:

- **O/S** : WINDOWS XP/WINDOWS 7/ANY OTHERS
- **FRAMEWORK** : .NET
- **IDE** : VISUAL STUDIO 2012
- **LANGUAGES**: C#
- **DATABASE** : MYSQL
- **FRONT END**:VISUAL STUDIO 2012
- **BACK END**:MYSQL

## **HARDWARE REQUIRED :**

- **PROCESSOR:** Pentium Class PC (P4 - 3 GHz or greater; faster processor or multiple processors recommended)
  
- **MEMORY :**1GB of RAM or more recommended
  
- ❖ **HARD DISK :**
  - o Approximately 10 GB of free space at local system
  
  - o Approximately 200 GB of free space on the system hosting the database
  
  - o Services for security vulnerabilities

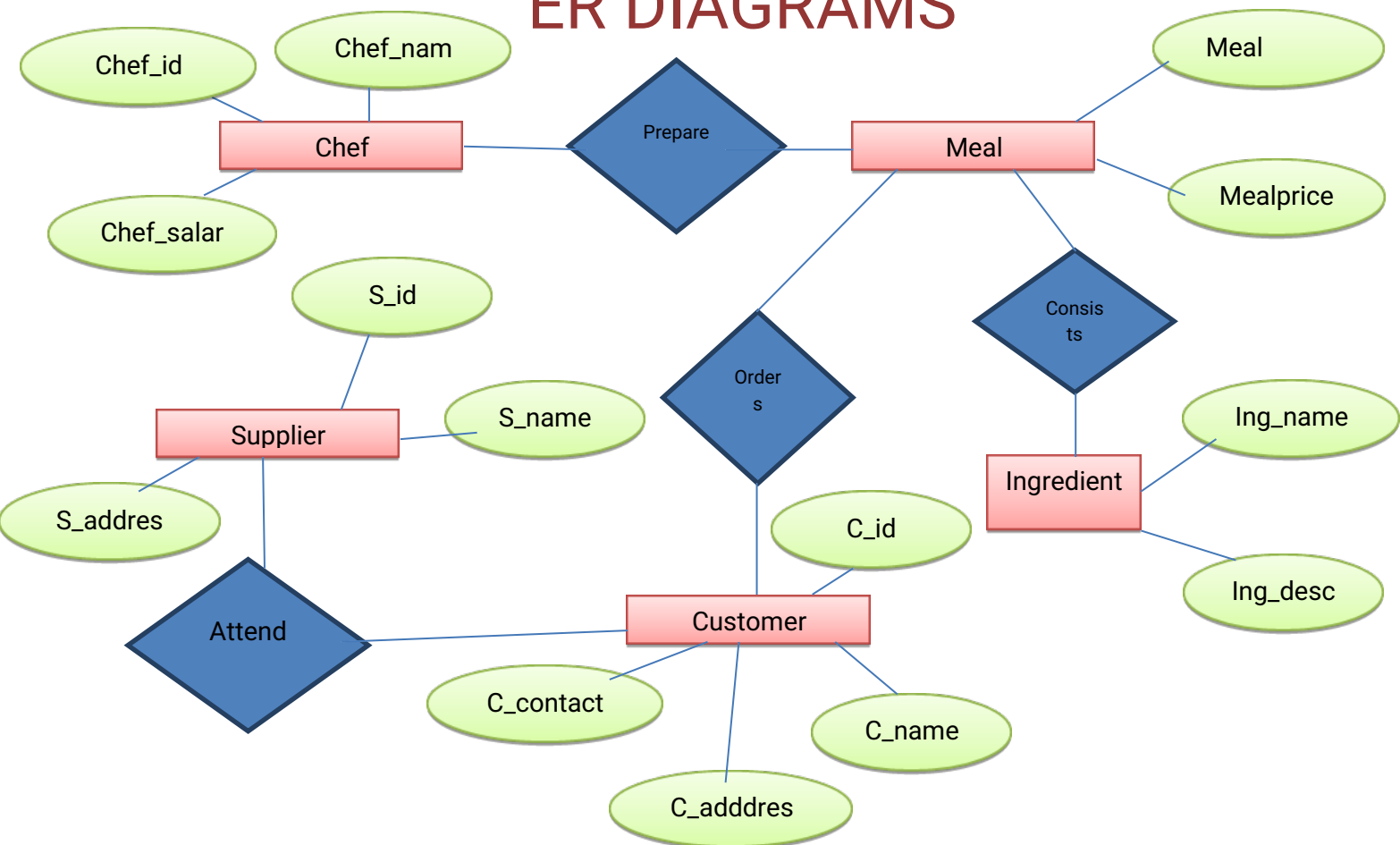


# CHAPTER-4

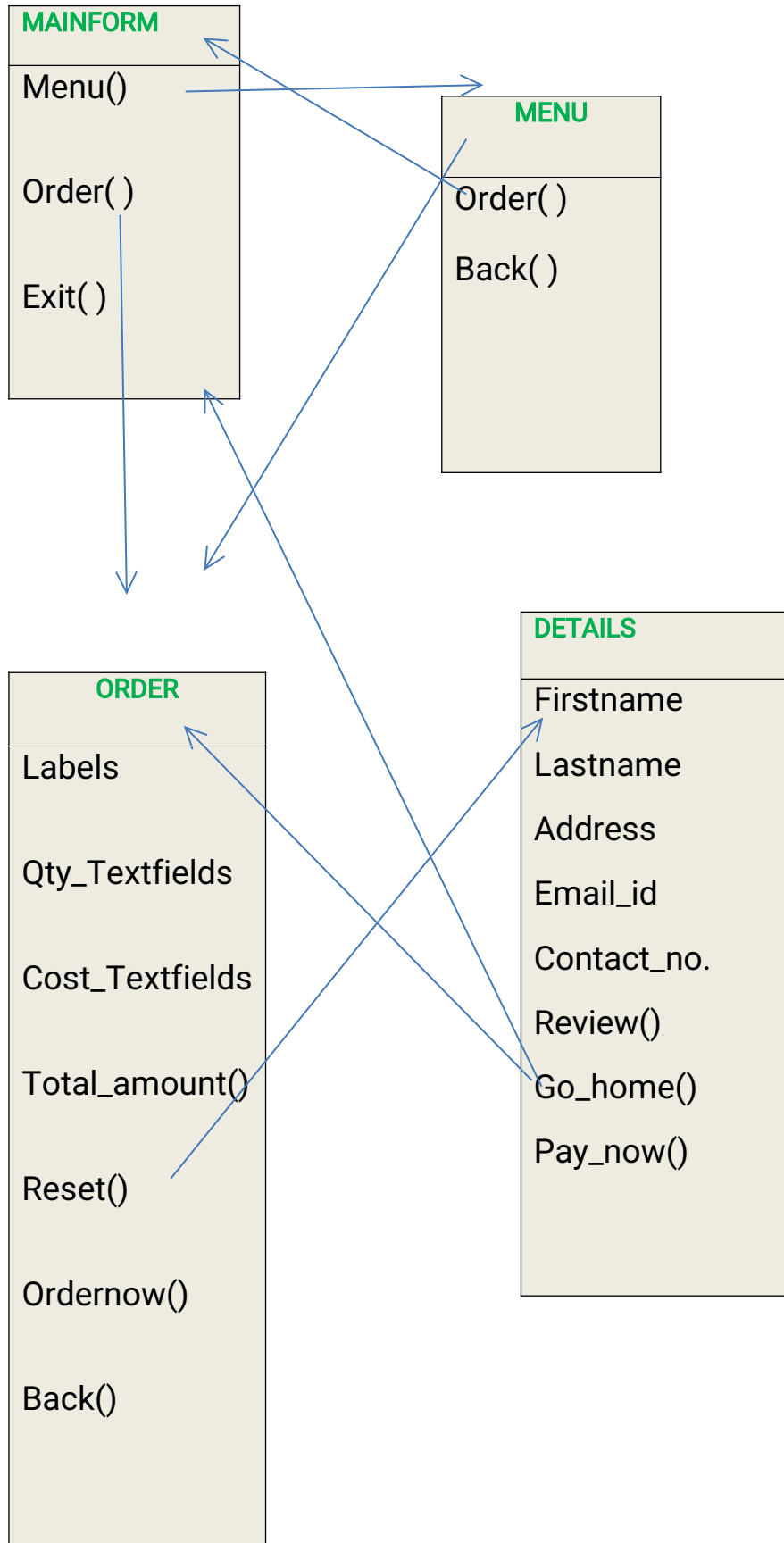
## System Design

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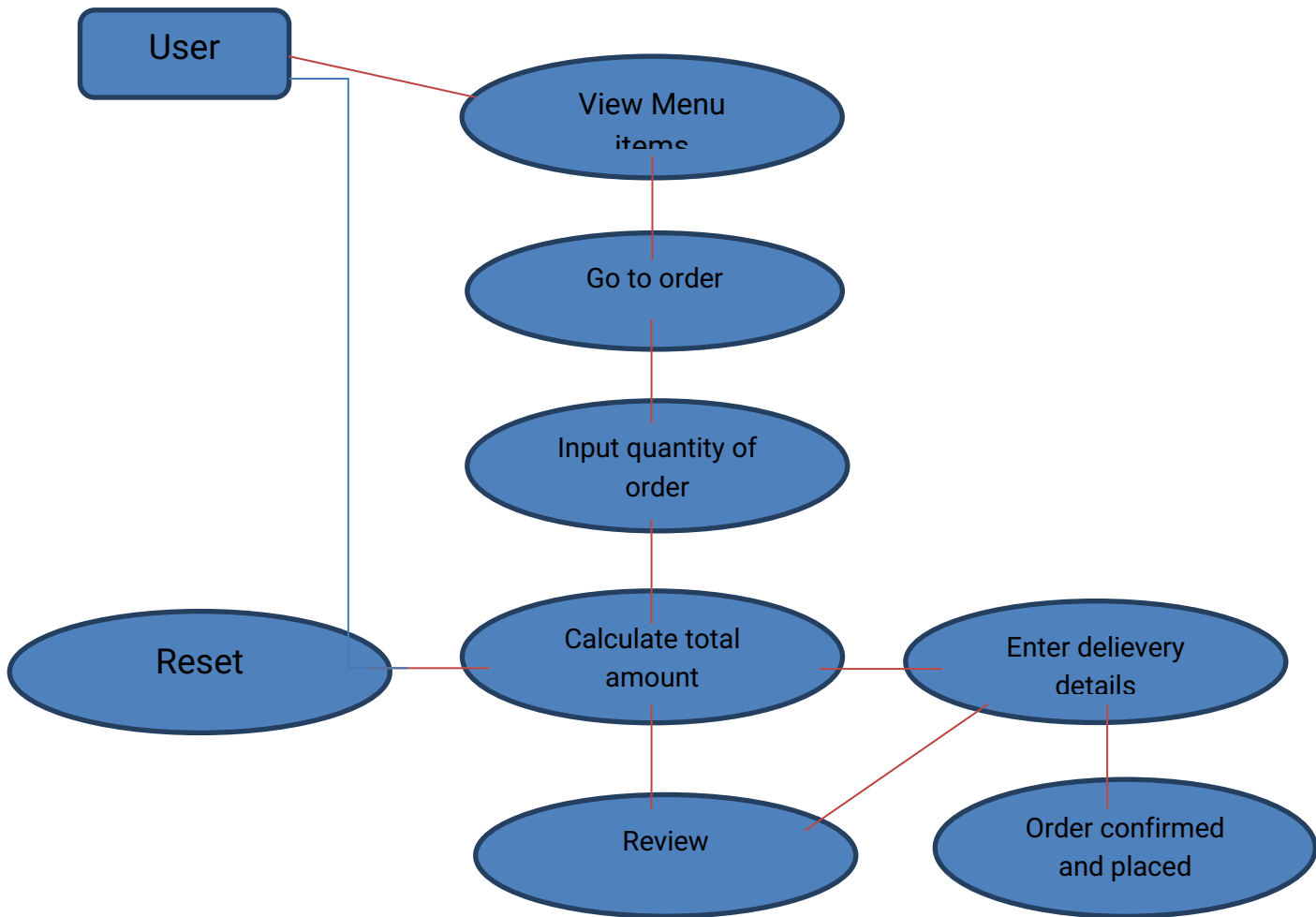
### ER DIAGRAMS



# UML DIAGRAMS



# Data Flow Diagrams



# CHAPTER-5

## Implementation

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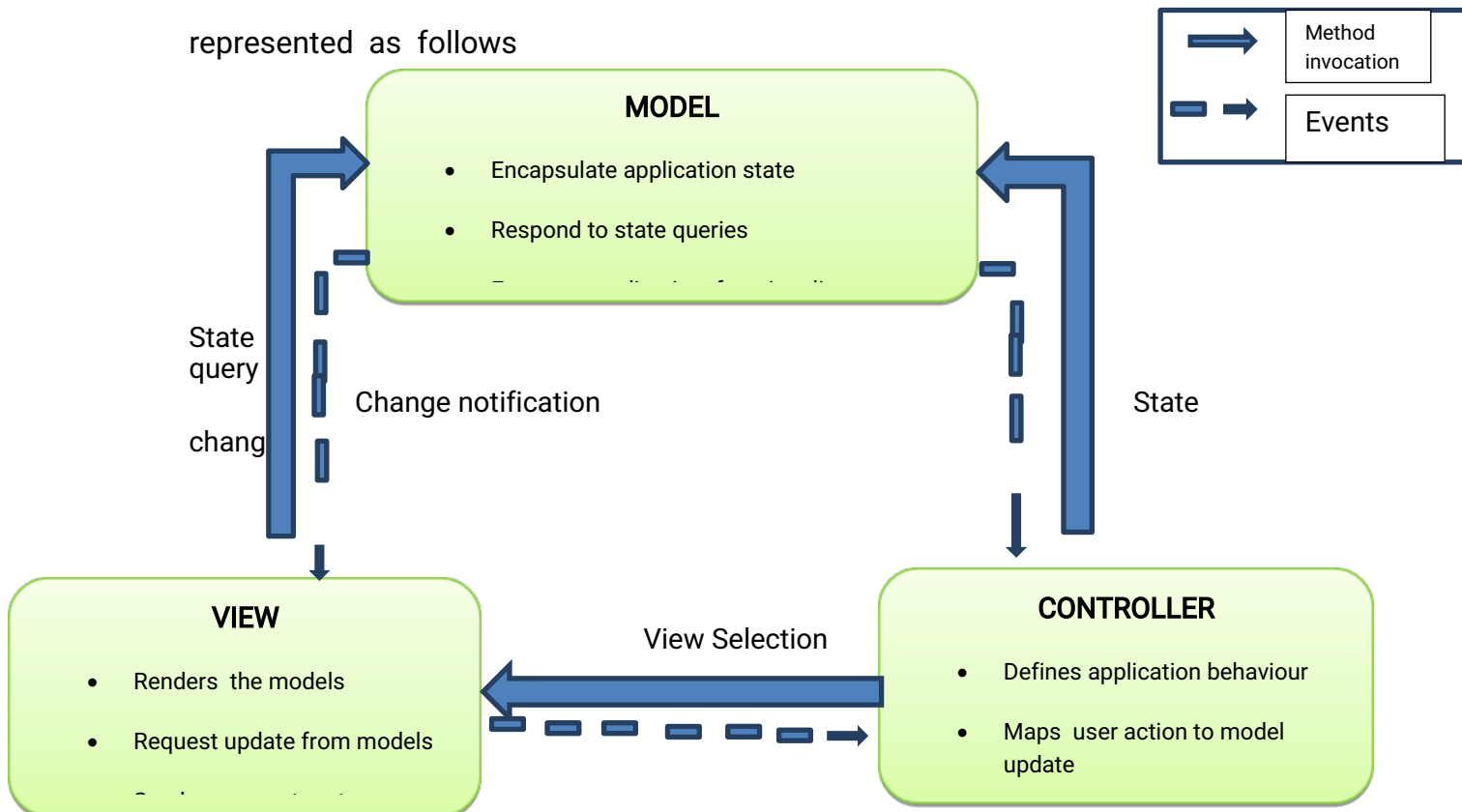
### IMPLEMENTATION Methodology

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Model View Controller or MVC as it is popularly called, is a software design pattern for developing applications. A Model View Controller pattern is made up of the following three parts:

- **Model** - The lowest level of the pattern which is responsible for maintaining data.
- **View** - This is responsible for displaying all or a portion of the data to the user.
- **Controller** - Software Code that controls the interactions between the Model and View.

MVC is popular as it isolates the application logic from the user interface layer and supports separation of concerns. Here the Controller receives all requests for the application and then works with the Model to prepare any data needed by the View. The View then uses the data prepared by the Controller to generate a final presentable response. The MVC abstraction can be graphically represented as follows



# CHAPTER-6

## CONCLUSIONS & FUTURE ENHANCEMENTS

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### RESULT ANALYSIS

System analysis is a process of gathering and interpreting facts, diagnosing

problems and the information about the Online Food Ordering System to recommend improvements on the system. It is a problem solving activity that requires intensive communication between the system users and system developers. System analysis or study is an important phase of any system development process. The system is studied to the minutest detail and analyzed. The system analyst plays the role of the interrogator and dwells deep into the working of the present system. The system is viewed as a whole and the input to the system are identified. The outputs from the organizations are traced to the various processes. System analysis is concerned with becoming aware of the problem, identifying the relevant and decisional variables, analyzing and synthesizing the various factors and determining an optimal or at least a satisfactory solution or program of action. A detailed study of the process must be made by various techniques like interviews, questionnaires etc. The data collected by these sources must be scrutinized to arrive to a conclusion. The conclusion is an understanding of how the system functions. This system is called the existing system. Now the existing system is subjected to close study and problem areas are identified. The designer now functions as a problem solver and tries to sort out the difficulties that the enterprise faces. The solutions are given as proposals. The proposal is then weighed with the existing system analytically and the best one is selected. The proposal is presented to the user for an endorsement by the user. The proposal is reviewed on user request and suitable changes are made. This is loop that ends as soon as the user is satisfied with proposal. Preliminary study is the process of gathering and interpreting facts, using the information for further studies on the system. Preliminary study is problem solving activity that requires intensive

communication between the system users and system developers. It does various feasibility studies. In these studies a rough figure of the system activities can be obtained, from which the decision about the strategies to be followed for effective system study and analysis can be taken.

## **Existing System of Online Food Ordering System:**

In the existing system the exams are done only manually but in proposed system we have to computerize the exams using this application.

- ❖ Lack of security of data.
- ❖ More man power.
- ❖ Time consuming.
- ❖ Consumes large volume of pare work.
- ❖ Needs manual calculations.
- ❖ No direct role for the higher officials

## **Proposed System of Online Food Ordering System:**

The aim of proposed system is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system. The system provides proper security and reduces the manual work.

- ❖ Security of data.
- ❖ Ensure data accuracy's.
- ❖ Proper control of the higher officials.



- ❖ Minimize manual data entry.
- ❖ Minimum time needed for the various processing.
- ❖ Greater efficiency.
- ❖ Better service.
- ❖ User friendliness and interactive.
- ❖ Minimum time required.

# Conclusion

Our project is only a humble venture to satisfy the needs to manage the project work. Several user friendly coding have also adopted. This package shall prove to be a powerful package in satisfying the requirements . The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

**At the end it is concluded that we have made effort on following points...**

- A description of the background and context of the project and its relation to work already done in the area.
- Made statement of the aims and objectives of the project.
- The description of Purpose, Scope, and applicability.
- We define the problem on which we are working in the project.
- We describe the requirement Specifications of the system and the actions that can be done on these things.
- We understand the problem domain and produce a model of the system, which describes operations that can be performed on the system.
- We included features and operations in detail

# LIMITATIONS

Although I have put my best efforts to make the software flexible, easy to operate but limitations cannot be ruled out even by me. Though the software presents a broad range of options to its users some intricate options could not be covered into it; partly because of logistic and partly due to lack of sophistication. Paucity of time was also major constraint, thus it was not possible to make the software fullproof and dynamic. Lack of time also compelled me to ignore some part such as storing old result of the candidate etc.

Considerable efforts have made the software easy to operate even for the people not related to the field of computers but it is acknowledged that a layman may find it a bit problematic at the first instance. The user is provided help at each step for his convenience in working with the software.

## **List of limitations which is available in the Online Food Ordering System:**

- Excel export has not been developed for Food, Item Category due to some criticality.
- The transactions are executed in off-line mode, hence on-line data for Shopping Cart, Customer capture and modification is not possible.
- Off-line reports of Food, Order, Shopping Cart cannot be generated due

to batch mode execution.

## FUTURE WORKS

In a nutshell, it can be summarized that the future scope of the project circles around maintaining information regarding:

- We can add printer in future.
- We can give more advance software for Online Food Ordering System including more facilities
- We will host the platform on online servers to make it accessible worldwide
- Integrate multiple load balancers to distribute the loads of the system
- Create the master and slave database structure to reduce the overload of the database queries
- Implement the backup mechanism for taking backup of codebase and database on regular basis on different servers

The above mentioned points are the enhancements which can be done to increase the applicability and usage of this project. Here we can maintain the records of Food and Item Category. Also, as it can be seen that now-a-days the players are versatile, i.e. so there is a scope for introducing a method to maintain the Online Food Ordering System. Enhancements can be done to maintain all the Food, Item Category, Shopping Cart, Customer, Order. We have left all the options open so that if there is any other future requirement in the system by the user for the enhancement of the system then it is possible to implement

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