**Chapter 2:**

**SYSTEM REQUIREMENTS**

**2.1 Functional Requirements**

A functional requirement is a requirement that, when satisfied, will allow the user to perform some kind of function. The functional requirements of the restaurant.

The Restaurant Management System provides following functionality for effective usage and maintenance of Product and Orders information.

**Administrator:**

1. Add Category: Adds the details of the category of dish served by the restaurant into the database.
2. Delete Category: Deletes the details of a particular category of dish from the database.
3. Display Categories: Displays details of all categories of dishes stored in the database.
4. Update Category: Updates details of a particular category of dish stored in the database.
5. Search Category: Searches for complete details of a particular category of dish that is stored in the database by providing the name of the dish.
6. Add Dish: Adds the details of the dish served by the restaurant into the database.
7. Delete Dish: Deletes the details of a particular dish from the database.
8. Display Dishes: Displays details of all dishes stored in the database.
9. Update Dish: Updates details of a particular dish stored in the database.
10. Search Dish: Searches for complete details of a particular dish that is stored in the database by providing the name of the dish.
11. Display Orders: Displays all previously generated Receipts/Bills/Orders.
12. Search Order: Searches for a particular order that is previously generated by providing Order Number.
13. Print Bill/Order: Prints a Receipt/Bill/Order that is generated now or previously via a POS (Point of Sales) Thermal Printer on a 58mm wide paper roll.

**2.2 Non-Functional Requirements**

**2.2.1 Safety Requirements**

There are several user levels in Restaurant Management System. Access to the various subsystems will be protected by a User login, which requires a username and password. This gives different views and accessible functions of user levels through the system. Maintaining backups ensure the system database security.

**2.2.2 Security Requirements**

Admin will be able to login to the Management Database System. Admin will have access to the management subsystem as well as the User account and has the maximum privileges. Anyone who is not registered will not be able to access the database.

**2.2.3 Other non- functional requirements**

|  |  |
| --- | --- |
| Speed | Processed transactions/second  User or event response time  Screen refresh time. |
| Ease of use | Training time  Number of help frames |
| Reliability | Mean time to failure  Probability of unavailability  Rate of failure occurrence  Availability |
| Robustness | Mean time to failure  Probability of unavailability  Rate of failure occurrence  Availability |
| Portability | Number of target systems  Percentage of target development statements. |

**2.3 Hardware Requirements**

1. Keyboard
2. Mouse
3. Mouse Or any Input Method that can interact with the browser (touch capacitive screen)
4. Screen or monitor with screen resolution at least 1024x768
5. At least 512 MB of RAM
6. At least 512 MB HDD space

**2.4 Software Requirements**

1. Windows 7 or newer
2. Visual Studio 2015 or newer
3. MySQL Server
4. Java 8 or newer