TEAM 03: REBEL FORCE

IS – 636 (Sec-02): Structured Systems Analysis and Design
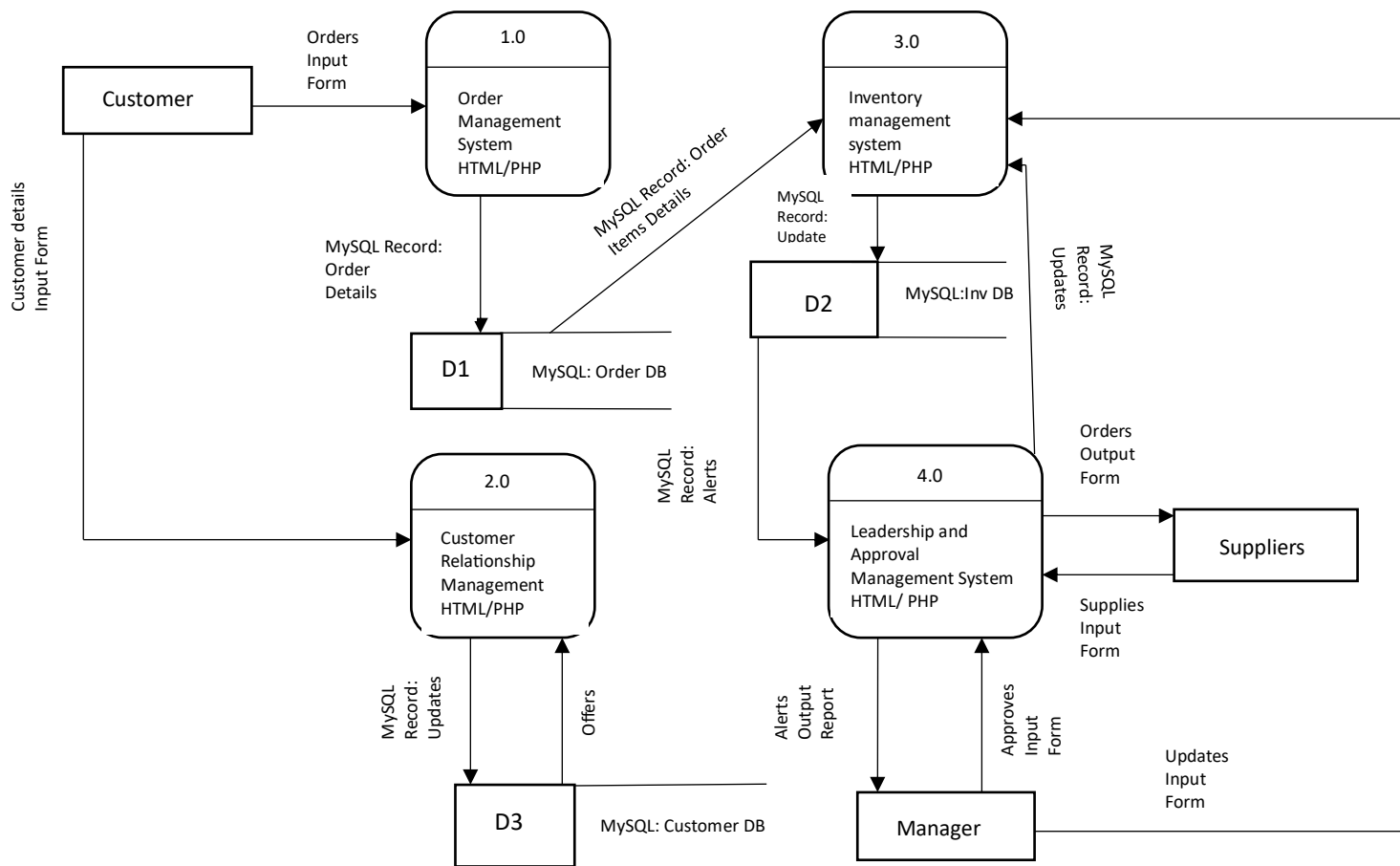**Deliverable 5**: Design

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Table of Contents

Physical Process Model

Chopathi Indian Restaurant prides itself on delivering exceptional dining experiences to its customers. To achieve this, the restaurant must implement a comprehensive system that efficiently manages orders, inventory, customer relationships, and leadership approvals. This system should serve as the backbone of the restaurant's operations, ensuring smooth workflows and enhanced customer satisfaction.

The data flow diagram for physical level 0 illustrates the flow of information and operations within a system that includes customers, suppliers, and managers. The diagram is an illustration of the various entities' and processes' ways of interacting with one another as well as the stores of data that are involved. The following is a summarized narrative that describes the various components and the data flows:

Customers, suppliers, and managers are representations of external entities that interact with the system. Customers engage in conversation with the system by submitting their orders and all of the necessary information via an input form. The leadership and approval management

system sends orders to the supplier management system, and the supplier management system sends those orders to the supplier. The way in which managers engage with the system is through giving input forms with their approvals and updates.

The processes in the system include the order management system, inventory management system, customer relationship management, and leadership and approval management system. These processes are implemented using HTML and PHP technologies.

The order management system receives orders from customers and stores the order details in the Order Database, using MySQL as the data store. To effectively manage inventory, the inventory management system accesses the Order Database to get information on the order items. The customer database is updated with new customer information whenever the customer relationship management procedure is run. These new client details are received as MySQL records. In addition to this, it gets offers from the Customer Database.
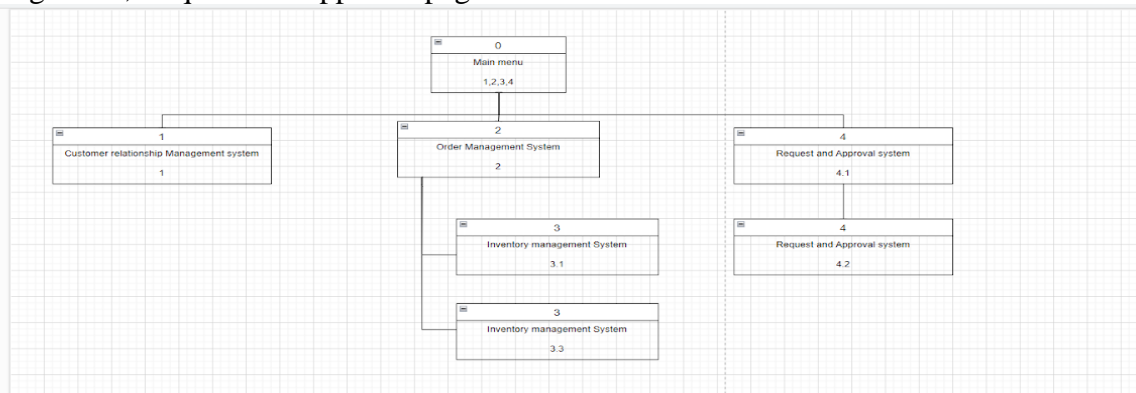
Alerts are received from the Inventory Database by the Leadership and Approval Management System, which then uses an output form to communicate those alerts to the related managers. In addition to this, it gathers supplies from its providers using an input form. The Inventory Database is interacted with by the system so that it may update the inventory data.

The leadership and approval management system makes use of the approvals that are entered into the system by managers using an input form. These approvals are received from the managers. In addition to this, the system receives information about the inventory management from the managers, and it adjusts itself accordingly. Sending out orders is another method through which the leadership and approval management system connects with the vendors.

Overall, this data flow diagram for the physical level 0 gives a comprehensive perspective of the system's components, the movement of data between external entities and processes, and the involvement of various data stores. It depicts how customers, suppliers, and managers interact with the system, as well as how the system maintains orders, inventories, customer data, and approvals. In addition, it illustrates how customers and suppliers may access their information.

User Interface design:

The proposed user interface diagram fir Chopathi Indian restaurant look like as shown in the below figure. It comprises of a main page which allows users to navigate from initial point to different pages which enables functionalities like Customer relationship management, orders management, Request and approval page.
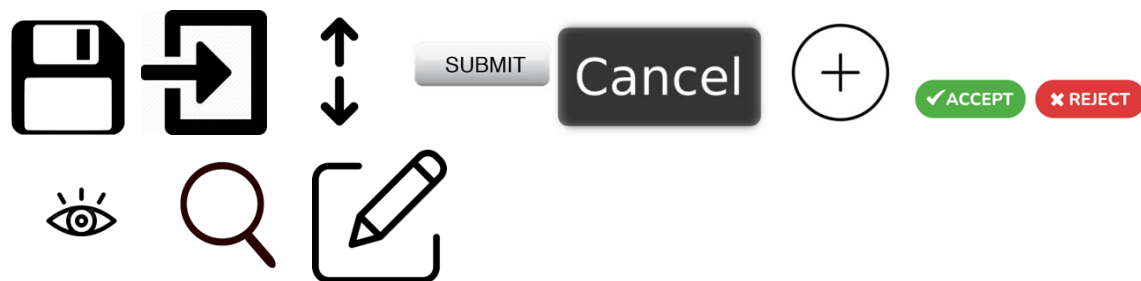

Interface Objects and Actions:

The proposed solution proposes a website with few interface objects which performs few important actions. The lists of actions are mentioned below:
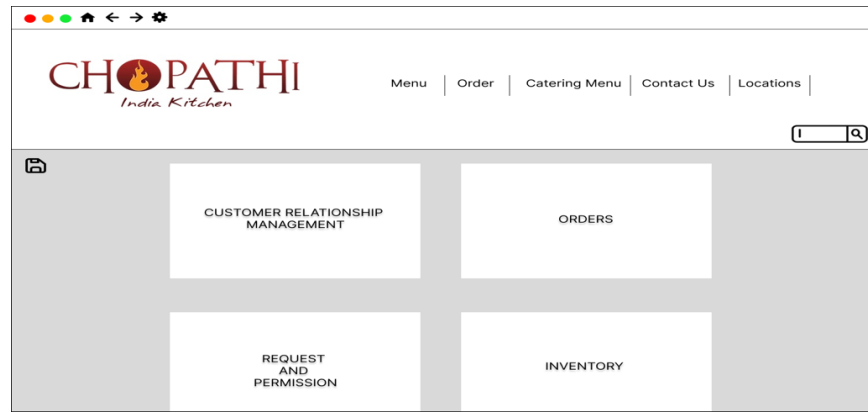
1. **Save:** It is used to save any actions that were entered by users of interface like whenever managers create a request or manager updates a inventory he can save the state of the system.
2. **Exit:** Used to reach the home page directly.
3. **Navigation**: Used to navigate between pages.
4. **Submit**: used to submit the request or palace order.
5. **Cancel**: Used to place order.
6. **Add**: used to add new requests in request and approval page.
7. **Accept/Reject**: Used by owner or partners to approve or reject a proposed request by manager.
8. **View:** one can view history of orders and customer history.
9. **Search**: One can search items in menu.
10. **Edit**: Managers and owners can edit their response; receptionist can edit order.
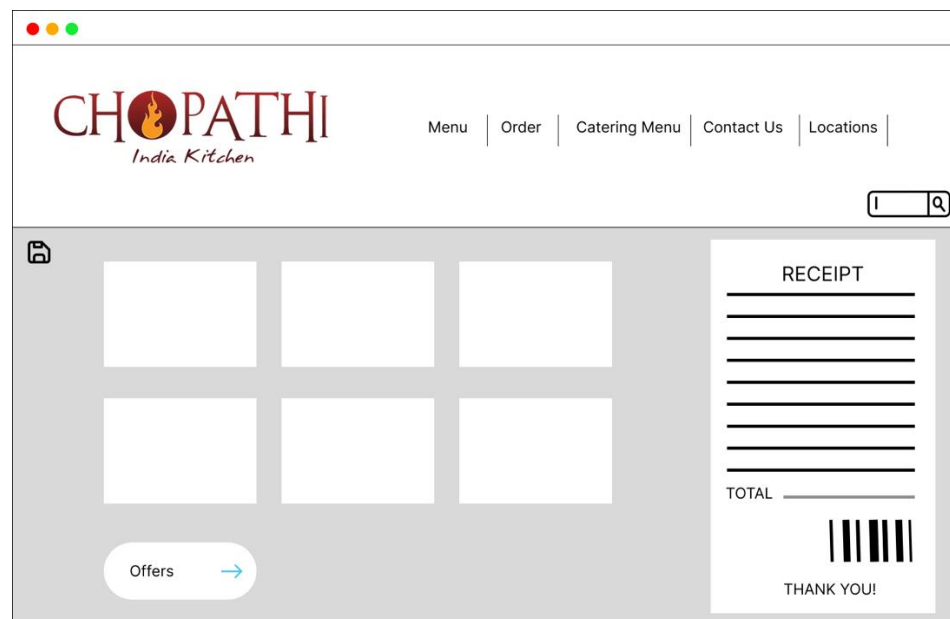
Interface Icons:
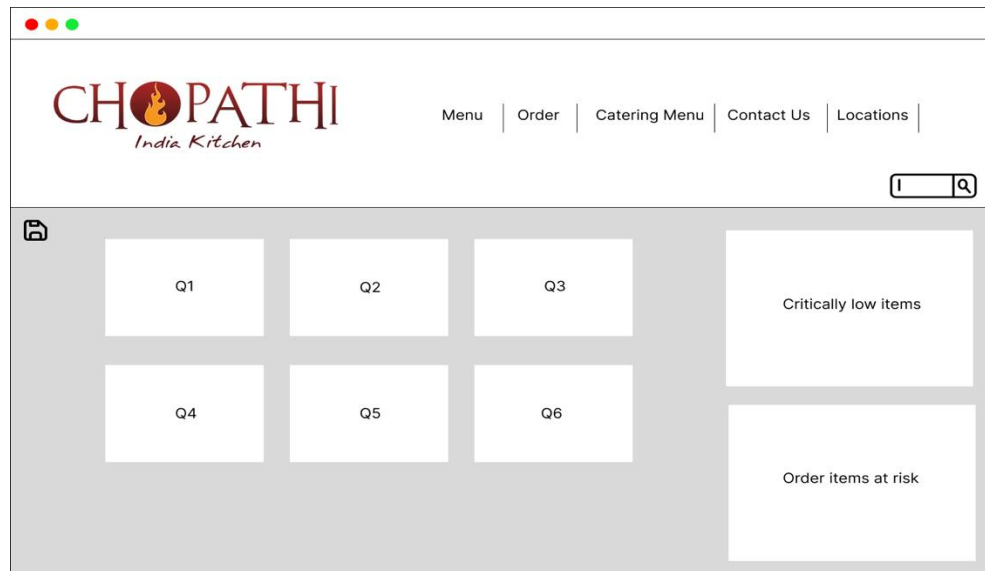

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Interface Design Prototypes:

Main Menu: The starting point for the proposed UI which is minimalistic but efficient. As we can see it shows essential information like menu, order, contact number and buttons to various functionalities which ensures smooth management of the restaurant.
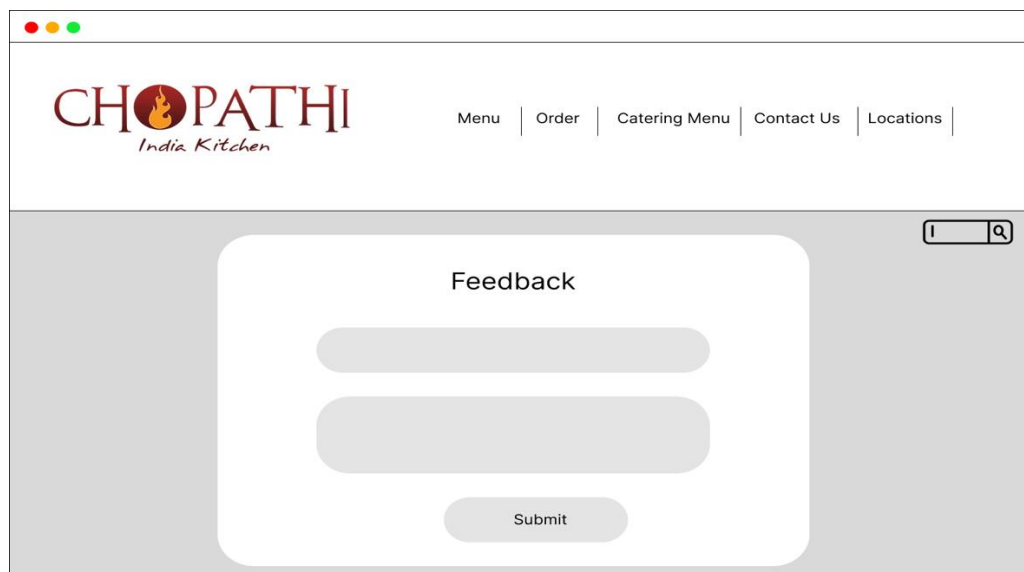

Orders Interface: This page consists of items in the menu and receptionist can view items they have selected on Receipt block of page.

Inventory Interface: This page consists of items in the restaurant and managers can view items stock available in store. It also provides a facility to view items that are critically low and may affect smooth ordering of items. This page provides functionality to search items in the restaurant also allows navigation across pages.

Customer feedback Interface: This page consists of blocks to take in name and a feedback block from the customer with a submit button. It also gives an option to take in user address, phone number, age, and profession and asks their permission if they want to give them to be part of Customer Relationship management Scheme of restaurant so that they can receive offers tailored for them. This page also has navigation buttons to move across different pages.

Request and approval Interface: This page consists of 2 blocks the right block and the left block, right block will show the proposed items requested by a branch and the right block consists of items that received approval from owners and managers. This page is only accessible for only managers and owner's trough special logins. The left block gives options to add, edit and save a request. Owners and managers also have an option to approve and reject a request and edit their response.

CHOPATHI
India Kitchen

Menu | Order | Catering Menu | Contact Us | Locations |

Requested Items
By Branch

Approved Items

Branch 1
Items

Items

Branch 2
Items

Branch 3
Items