

High Level Design & Low Level Design

1. [INTRODUCTION 3](#_TOC_250028)
   1. [INTENDED AUDIENCE 3](#_TOC_250027)
   2. [PROJECT PURPOSE 3](#_TOC_250026)
   3. [KEY PROJECT OBJECTIVES 3](#_TOC_250025)
   4. [PROJECT SCOPE AND LIMITATION 3](#_TOC_250024)
   5. [FUNCTIONAL OVERVIEW 3](#_TOC_250023)
2. [DESIGN OVERVIEW 4](#_TOC_250022)
   1. [DESIGN OBJECTIVES 5](#_TOC_250021)
   2. [ARCHITECTURAL STRATEGIES 5](#_TOC_250020)
      1. [Design Alternative 5](#_TOC_250019)
      2. [User Interface Paradigms 5](#_TOC_250018)
      3. [Error Detection / Exceptional Handling 5](#_TOC_250017)
      4. [Performance 6](#_TOC_250016)
      5. [Maintenance 6](#_TOC_250015)
3. [SYSTEM ARCHITECTURE 6](#_TOC_250014)
4. [DETAILED SYSTEM DESIGN 7](#_TOC_250013)
   1. [DFD LEVEL 0 7](#_TOC_250012)
   2. [DFD LEVEL 1 7](#_TOC_250011)
5. [ENVIRONMENT DESCRIPTION 8](#_TOC_250010)
   1. [TIME ZONE SUPPORT 8](#_TOC_250009)
   2. [LANGUAGE SUPPORT 8](#_TOC_250008)
   3. [USER DESKTOP REQUIREMENTS 8](#_TOC_250007)
   4. [SERVER-SIDE REQUIREMENTS 8](#_TOC_250006)
      1. [Deployment Considerations 8](#_TOC_250005)
      2. [Application Server Disk Space 8](#_TOC_250004)
      3. [Database Server Disk Space 8](#_TOC_250003)
      4. [Integration Requirements 8](#_TOC_250002)
      5. [Network 8](#_TOC_250001)
   5. [CONFIGURATION 9](#_TOC_250000)
      1. Operating System 9

# Introduction

## 1.1Intended Audience

It is an excellent translation is to know and understand the target audience the people who will read and use the translation. The translator needs this information to communicate effectively.

## 1.2 Project purpose

## The main purpose of an online ordering system is to provide customers for a way to place an order at a restaurant over the internet.

## The purpose of an online ordering system is to make itself beneficial for the customer and the business so that they can stay afloat while also serving customers their favorite dishes.

## The main reason is that it benefits both the customer and business.

## It can also save the favourite orders allowing them to easily re-order that in the future.

## 

## 1.3 Key Project Objectives

* + - The main objective of the Project on Online Food Delivery System is to manage the details of Food items,Category,Customer,Order,Confirm Order.
    - It manages all the information about Food items, Payment, Confirm Order, Food item.
    - Multiple clients connected to a single servor

**1.4Project Scope and Limitation**

This project aims for users to edit there text files easily from any device having internet connection.The user can easily access this application by just there User Id and Password from any device.This application don’t require any installation process and provides the best options for editing tasks and it is compatible with almost every smart device.

## 1.5Functional Overview

Following header files are included in the program:

* #include <sys/socket.h>
* #include <netinet/in.h>
* #include <arpa/inet.h>
* #include <stdio.h>
* #include <stdlib.h>
* #include <unistd.h>
* #include <string.h>
* #include <sys/types.h>

# Design Overview

## Remote Line Editor comprises of the following modules in maintain database:

|  |  |
| --- | --- |
| Name of the Module | Customer Registration Process |
| Handled by |  |
| Description | The function is used for customer registration . |

|  |  |
| --- | --- |
| Name of the Module | Dynamic Menu |
| Handled by |  |
| Description | The function is used to display the contents of the menu. |

|  |  |
| --- | --- |
| Name of the Module | Order Status |
| Handled by |  |
| Description | This function is used to check whether the order is placed or not. |

|  |  |
| --- | --- |
| Name of the Module | Payment Modes |
| Handled by |  |
| Description | This function is used to display different types of payment modes. |

|  |  |
| --- | --- |
| Name of the Module | Booking delivery slots |
| Handled by |  |
| Description | This function is used to select the convenient slot. |

|  |  |
| --- | --- |
| Name of the Module | Order Tracking |
| Handled by |  |
| Description | This command is used to know the tracking of the delivery person |

|  |  |
| --- | --- |
| Name of the Module | Order Confirmation |
| Handled by |  |

|  |  |
| --- | --- |
| Description | This command is used to display that the order is confirmed |

**co**

|  |  |
| --- | --- |
| Name of the Module |  |
| Handled by |  |
| Description |  |

|  |  |
| --- | --- |
| Name of the Module | clear |
| Handled by |  |
| Description | This command is used to clear the screen. |

## Design Objectives

* Add different commands in the Line Editor
* Start the connection
* Accept the connection
* Different commands should be able to print the desired output.
* Remote Line Editor should be able to edit line
* Signal Handling for server and client disruppts.

## Architectural Strategies

# Design Alternative

We have used three structure to store data i.e. User, Server and Client and further typedef it and used in the program.

# User Interface Paradigms

The Remote Line Editor should be able to allow the user to select files , print the contents and edit the particular line. Multiple clients should be able to connect one server.

# Error Detection / Exceptional Handling

* + - * If the user gives invalid username and password, it shows user not authenticated error.
      * If the user gives command that is not listed in help command then it shows invalid command.
      * If both the server and client side ends abruptly then it is handled by signal handling.

# Performance

The system will work on the user’s terminal. The performance shall depend upon server.

# Maintenance

Very little maintenance should be required for this setup. Initially the admin needs to login whether as authenticated or as anonymous user. Admin needs to run the application then only customer can access the application and make the process easy for the customer to order food anywhere and anytime.

# System Architecture

## 3.1 Database Architecture

The database used inside our program is the user.txt file. The user.txt file contains username and password separated by space. We have used strtok with a delimiter as space to store username and password. Also for the present directory we can use username for the purpose.

The architecture used in this system is like that we store all the users inside a data folder in the home directory. And all the information of the authenticated and anonymous user stored in user.txt files.



# Detailed System Design

## DFD Level 0

**Diagram, schematic

Description automatically generated**

## DFD Level 1 Diagram Description automatically generated1

# Environment Description

## Time Zone Support

IST-Kolkata

## Language Support

English

## User Desktop Requirements

* + - 64-bit processor, 1 GHz or faster
    - At least 10 GB free hard drive space
    - At least 1 GB RAM Server

## Server-Side Requirements

* + - 64-bit processor, 1 GHz or faster
    - At least 2GB free hard drive space
    - At least 1GB RAM

# Deployment Considerations

* + - * Local storage is used
      * No network latency to consider
      * To scale buy a bigger CPU, more memory, larger hard drive, or additional hardware

# Application Server Disk Space

No such disk space is required as the program is fully functional on online IDE(s) as well.

Local Operating System is required and txt file to store the records of users.

# Database Server Disk Space

No such disk space is required as the program is fully functional on online IDE(s) as well.

Local Operating System is required and txt file to store the records of users.

# Integration Requirements

* + - * Language: - C
      * Tools: - Valgrind, Makefile, Gcoverage, Gprof
      * Complier: - gcc
      * Linux Environment

# Network

End to End

## Configuration

**5.5.1. Operating System**

Linux environment

## Change Log

**QMS Template Version Control (Maintained by QA)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Author** | **Description** |
| 28-May-2015 | 1.0 | QA Team | Initial Version |
|  |  |  |  |
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|  |  |  |  |