

**Course: Object Oriented Programming**

**Assignment#4:**

**Title:**

***“A product implementing java fx, file handling and Object-Oriented Programming****”*

|  |  |
| --- | --- |
| Group Members: | Ayesha Javed  Noor ul ain  Areeba |
| Registration number: | Sp24-bse-020-B  Sp24-bse-100-B  FA24-bse-039-B |
| Assignment number: | 4 |
| Assigned date: | 11-12-2024 |
| Course instructor: | Sir Shahid Bhatti |
| Due Date: | 19-12-2024 |

***COMSATS University Cafe Management System Documentation***

**1. Introduction**

The **COMSATS University Cafe Management System** is a server-client-based application designed to streamline the order management process for a university cafe. This system supports multiple clients, including students and faculty, and is managed by an admin who oversees and processes all orders. The system provides a Graphical User Interface (GUI) for enhanced user interaction and efficient order handling.

**2. Steps for Code Execution**

1. **Run the Server**
   * Start the server file to initialize the system backend.
   * Ensure the server is running and ready to handle client requests.
2. **Launch the Main GUI**
   * Execute the ComsatsCafe file to display the main interface of the system.
   * The GUI presents the following options:
     + **Admin**
     + **Student Corner**
     + **Faculty Corner**
     + **Menu**
     + **Reviews**
3. **Admin Login**
   * Click the **Admin** button.
   * Enter the admin credentials (password-protected).
   * Access the admin dashboard for managing orders.
4. **Student and Faculty Orders**
   * Click the **Student Corner** or **Faculty Corner** button.
   * A respective window opens displaying:
     + Menu items
     + Quantity selection
     + Order submission button
   * Submit orders, which are transmitted to the admin dashboard.
5. **Admin Order Management**
   * View incoming orders from students and faculty.
   * Process the orders and generate respective bills.
   * Ensure that the bills are sent back to the respective clients.
6. **Bill Display and Review Submission**
   * Bills are displayed in the respective student and faculty interfaces.
   * Users can submit reviews for the food.
   * Reviews are stored in the backend file Cafe\_Reviews.txt















