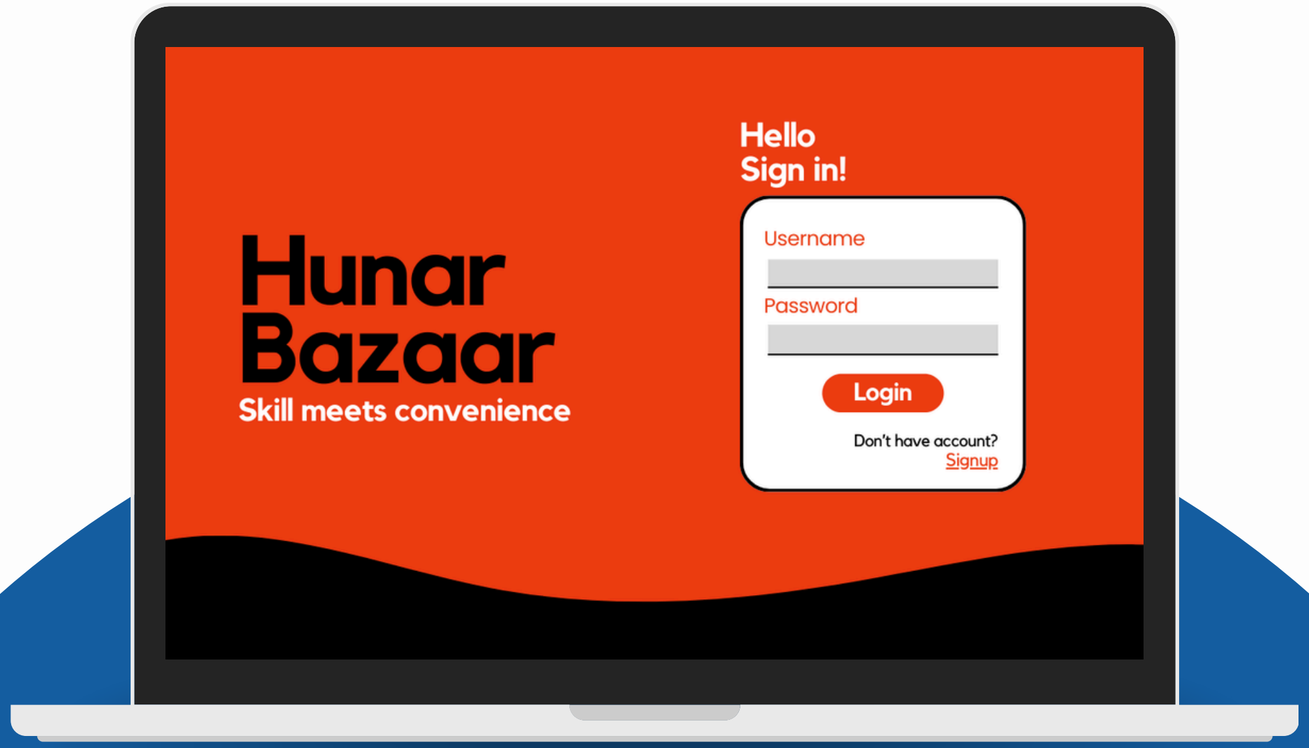
Miusys
Technologies

Hunar Bazaar

By: Ahmed, Usman & Irtaza



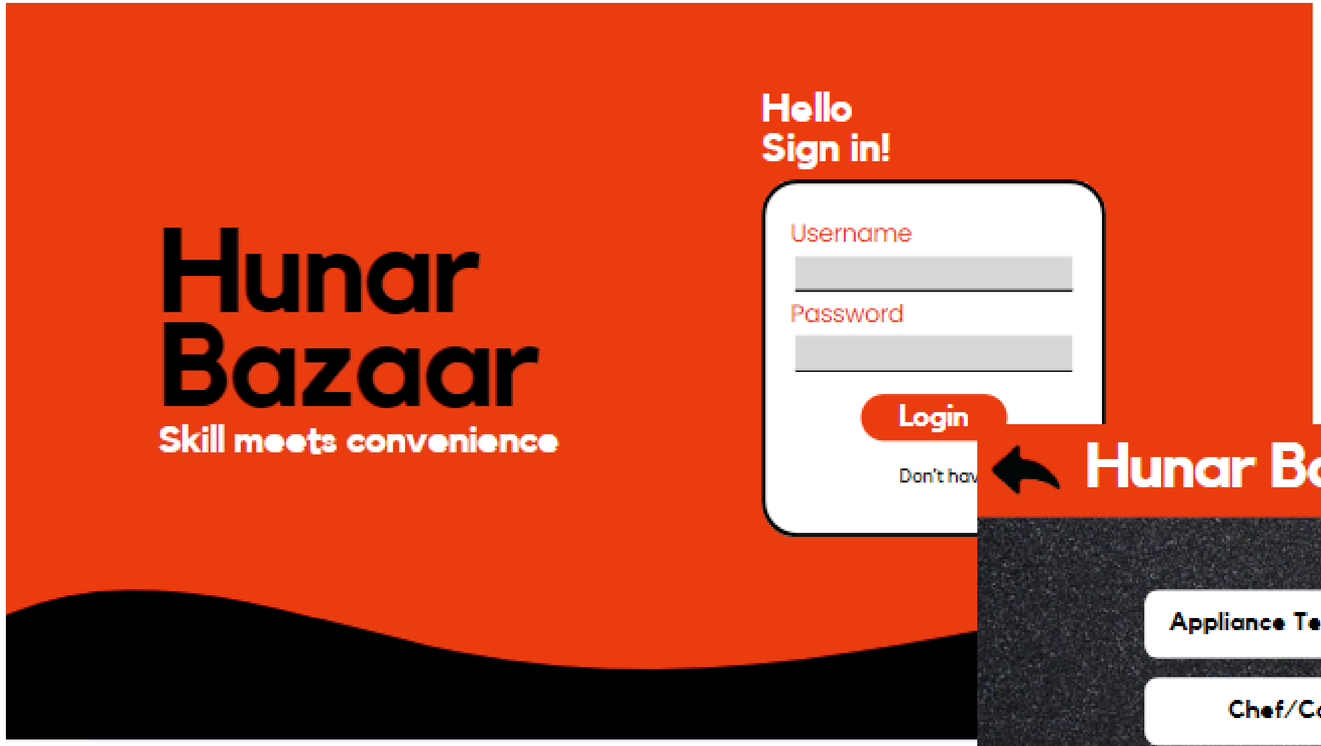
PURPOSE

The purpose of HunarBazaar is to create a seamless platform for connecting local technicians—such as plumbers, mechanics, and carpenters—with customers across Pakistan. By providing real-time, location-based solutions, the platform addresses the challenges of finding reliable service providers, especially during emergencies. The initial version of the product focuses on enhancing access to verified professionals in major cities like Karachi, Lahore, and Islamabad, ensuring convenience for users and growth opportunities for technicians.

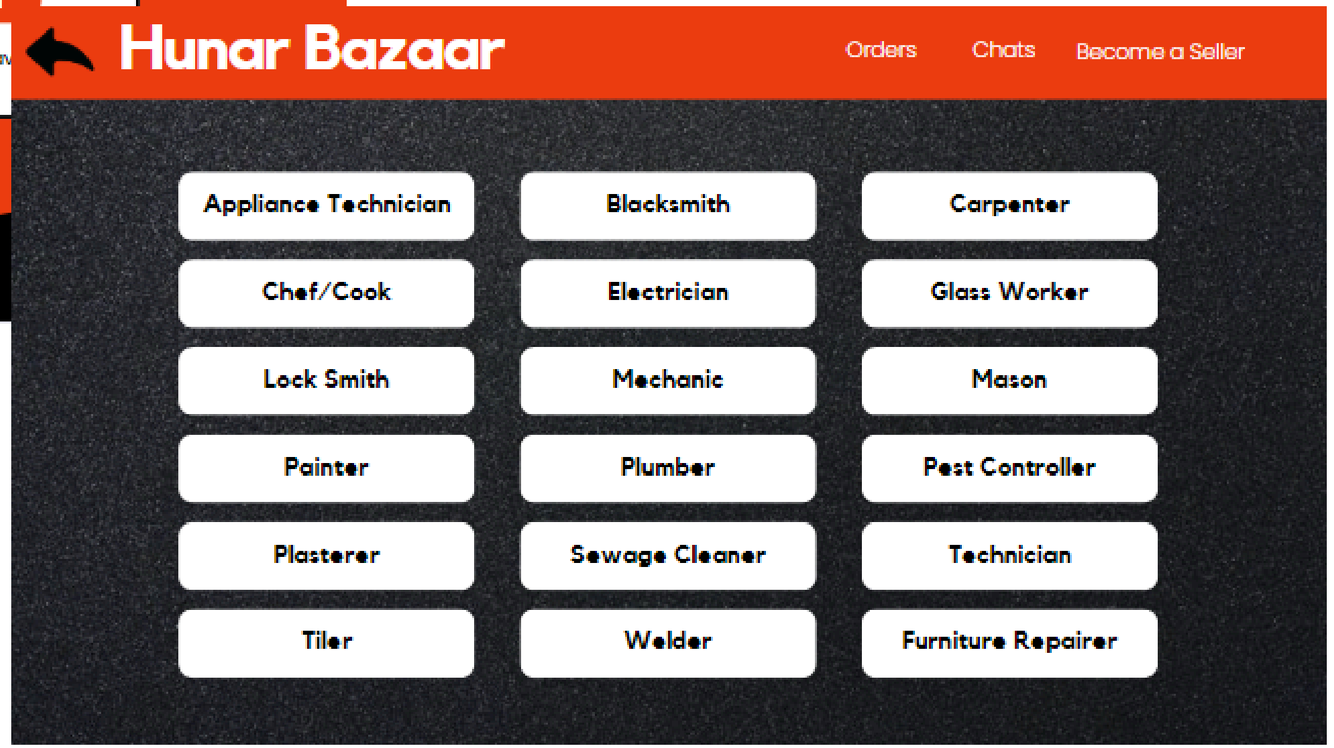
JavaFX

UI LAYER

UI LAYER

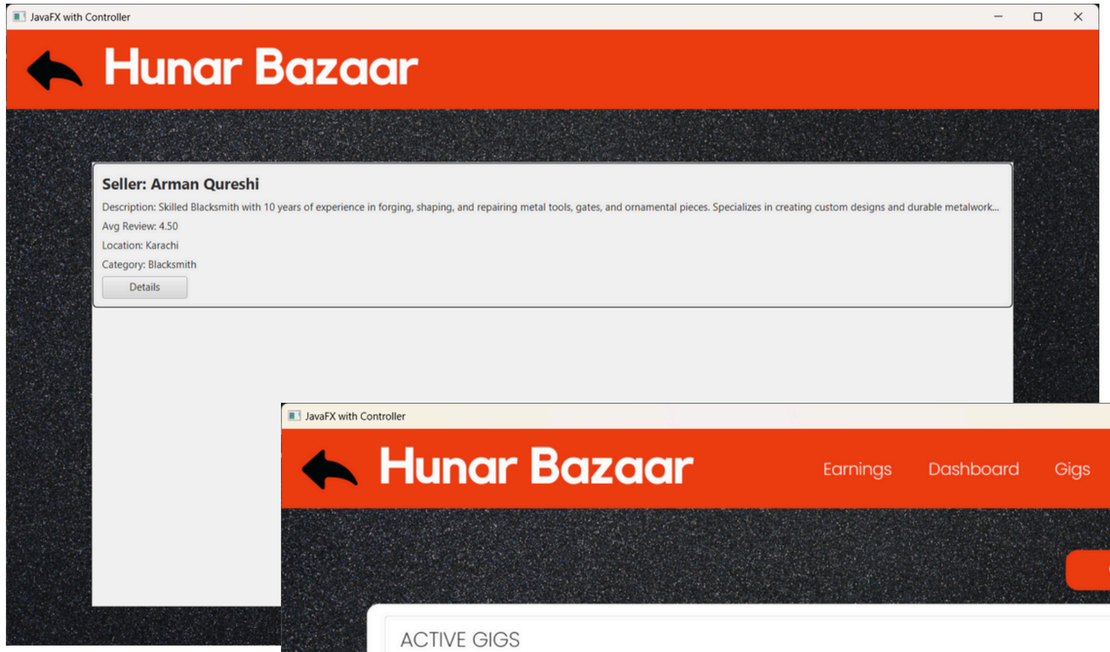


LOGIN

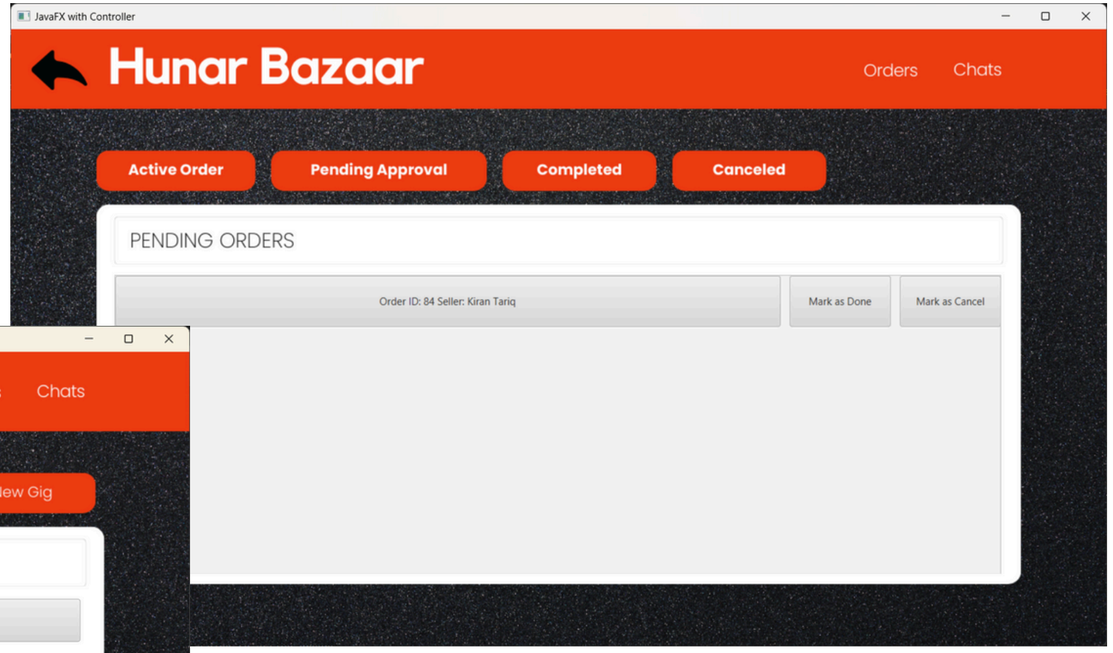


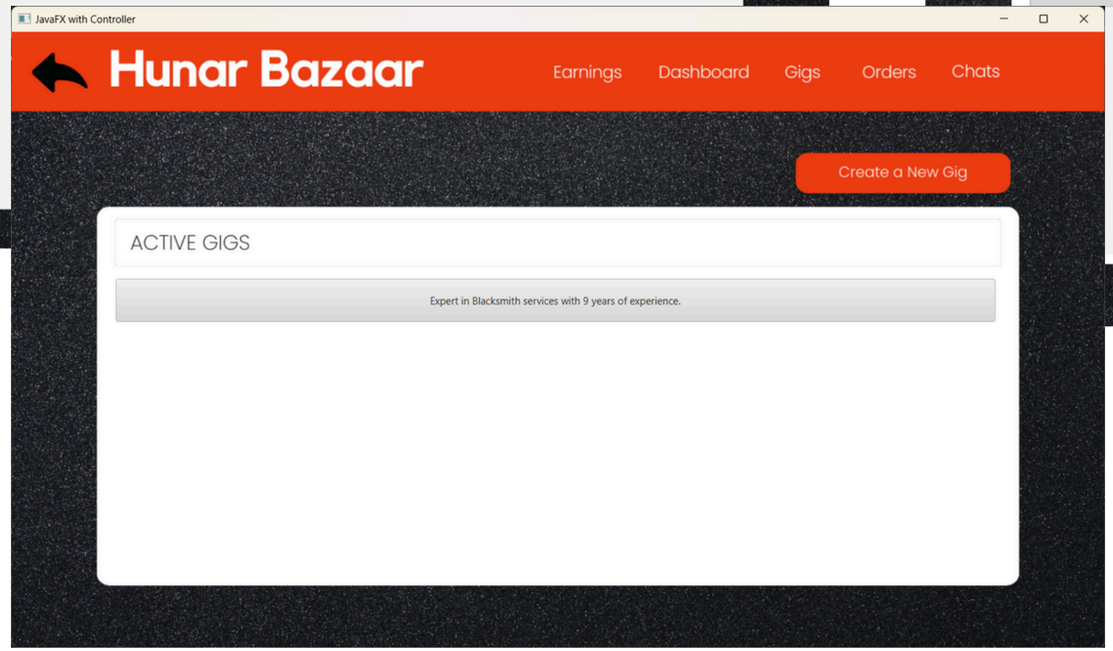
CATEGORIES

GIGS



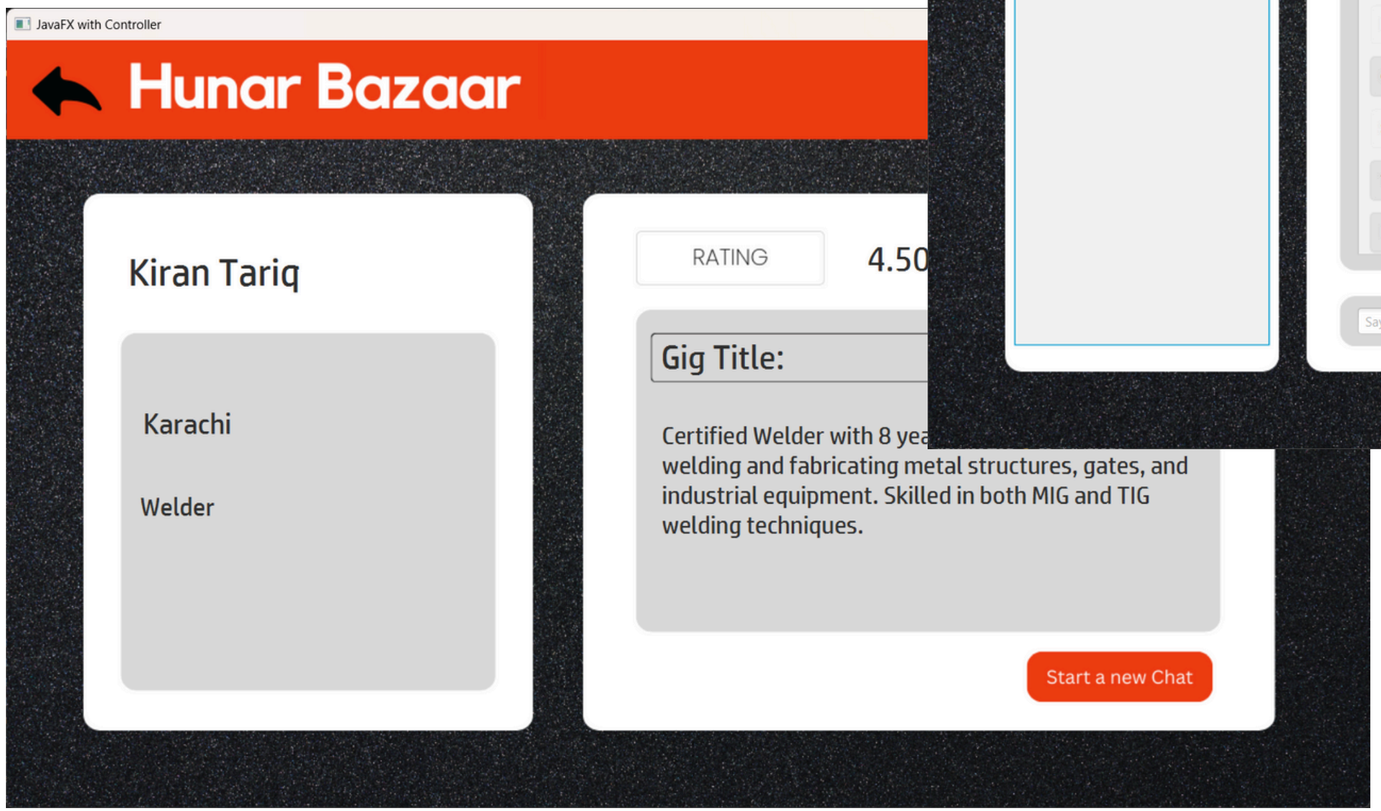
ORDERS

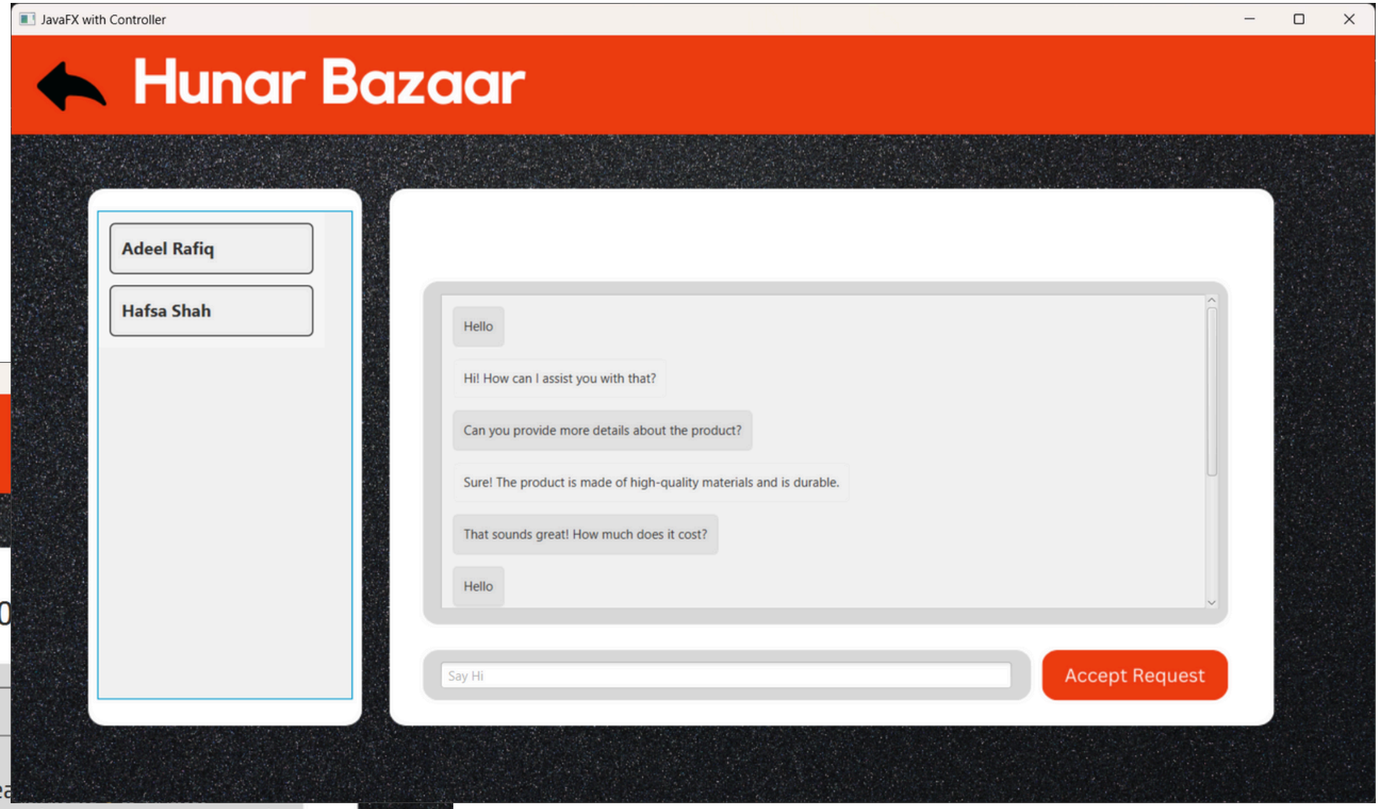




MANAGE GIG

INFO UI





CHAT UI

DESIGN PATTERNS

Low Coupling

High Cohesion

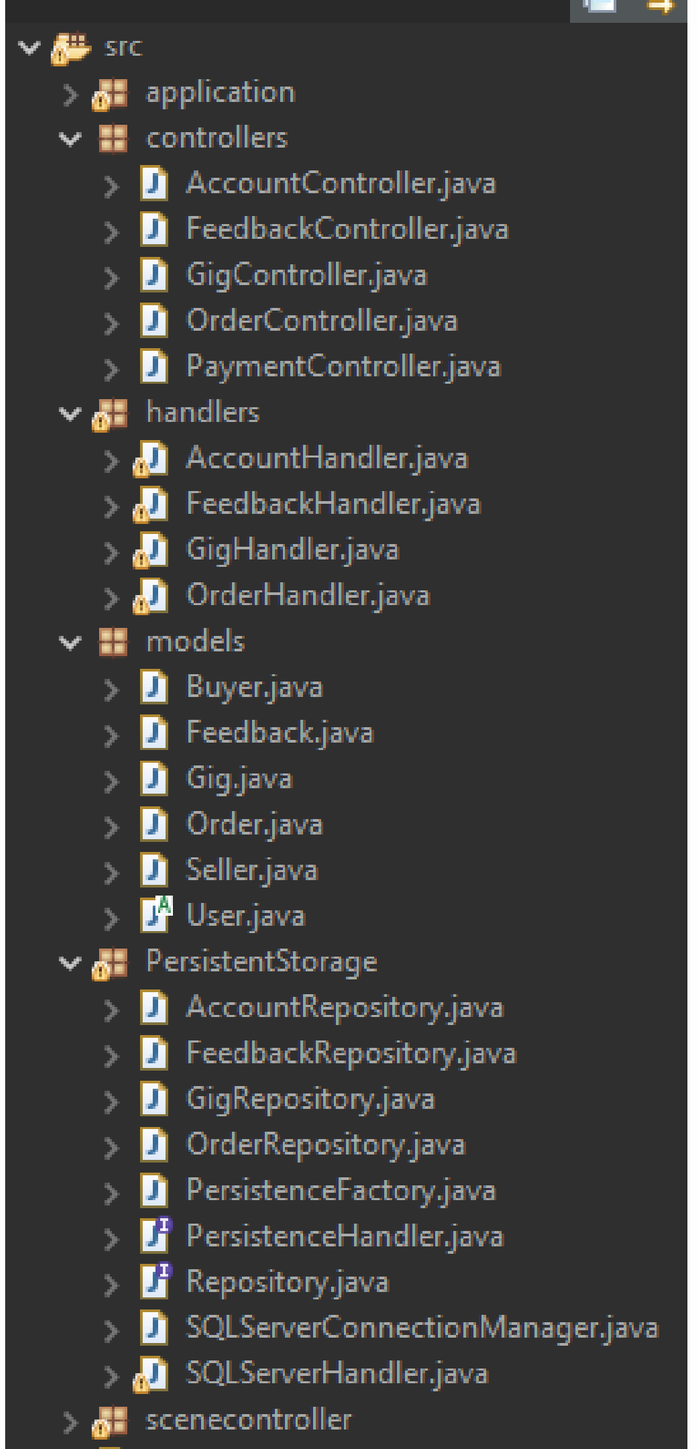
Factory

Singleton

Strategy

...

HIGH COHESION



```java
package PersistentStorage;

import java.sql.Connection;

public class SQLServerConnectionManager {

    // Connection string for SQL Server
    private static final String CONNECTION_STRING =
            "jdbc:sqlserver://IRTAZA-KHAN\\SQLEXPRESS:1433;" +
            "Database=firsttemp;encrypt=false;trustServerCertificate=true;integratedSecurity=true;"

    /**
     * Get a connection to the SQL Server database.
     *
     * @return Connection object
     * @throws SQLException if a database access error occurs
     */
    public static Connection getConnection() throws SQLException {
        return DriverManager.getConnection(CONNECTION_STRING);
    }
}
```

SINGLETON
FACTORY

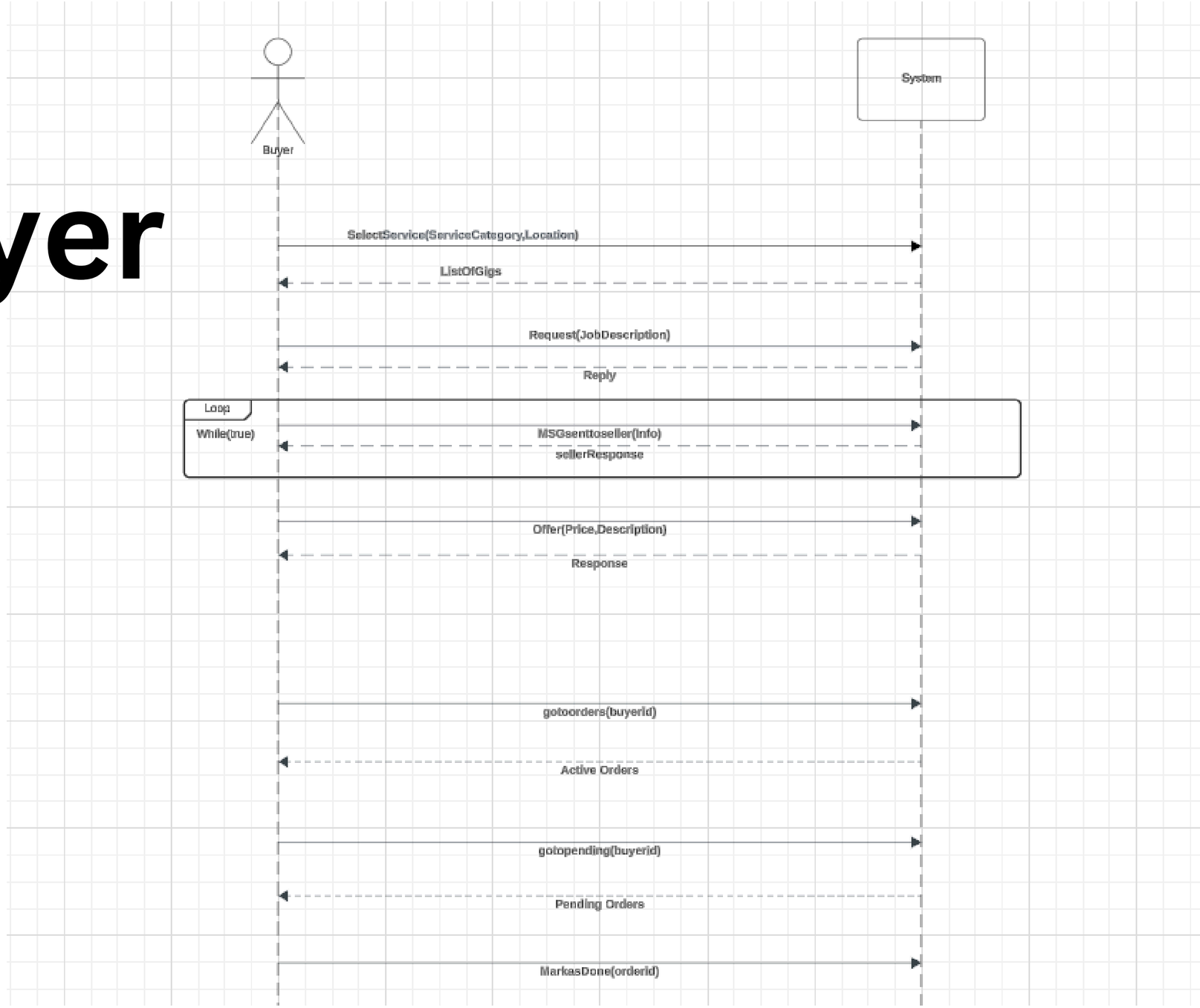
```java
public class PersistenceFactory {

    // Singleton instance
    private static PersistenceFactory instance = null;

    // Private constructor to prevent direct instantiation
    private PersistenceFactory() {}

    // Synchronized method to get the Singleton instance
    public static synchronized PersistenceFactory getInstance() {
        if (instance == null) {
            instance = new PersistenceFactory();
        }
        return instance;
    }

    // Factory method to create persistence handlers
    public PersistenceHandler createPersistenceHandler(String handlerType) {
        if (handlerType.equalsIgnoreCase("SQLServer")) {
            return new SQLServerHandler();
        } //else if (handlerType.equalsIgnoreCase("MySQL")) {
          //  return new MySQLHandler(); // Implement MySQLHandler similarly
        //} //else if (handlerType.equalsIgnoreCase("XML")) {
            //return new XMLPersistence();
    //    }
    else {
```

STRATEGY

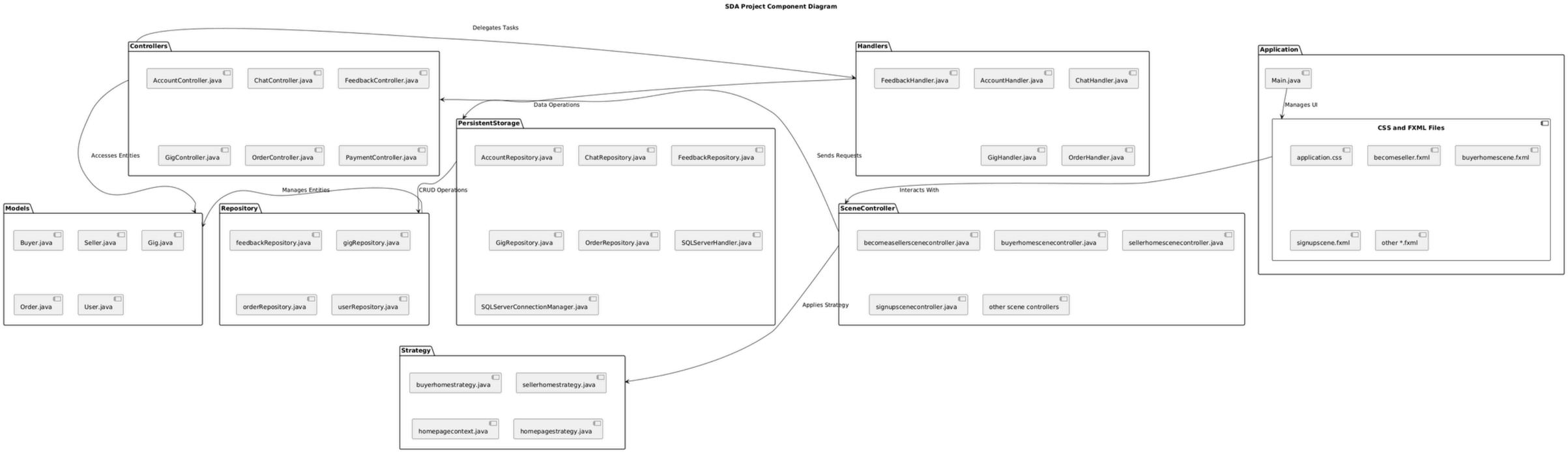
```java
package strategy;

public class homepagecontext {
    private homepagestrategy homePageStrategy;

    public void setHomePageStrategy(homepagestrategy homePageStrategy) {
        this.homePageStrategy = homePageStrategy;
    }

    public void displayHomePage() {
        if (homePageStrategy != null) {
            homePageStrategy.displayHomePage();
        } else {
            System.out.println("No strategy set!");
        }
    }
}
```

DIAGRAMS

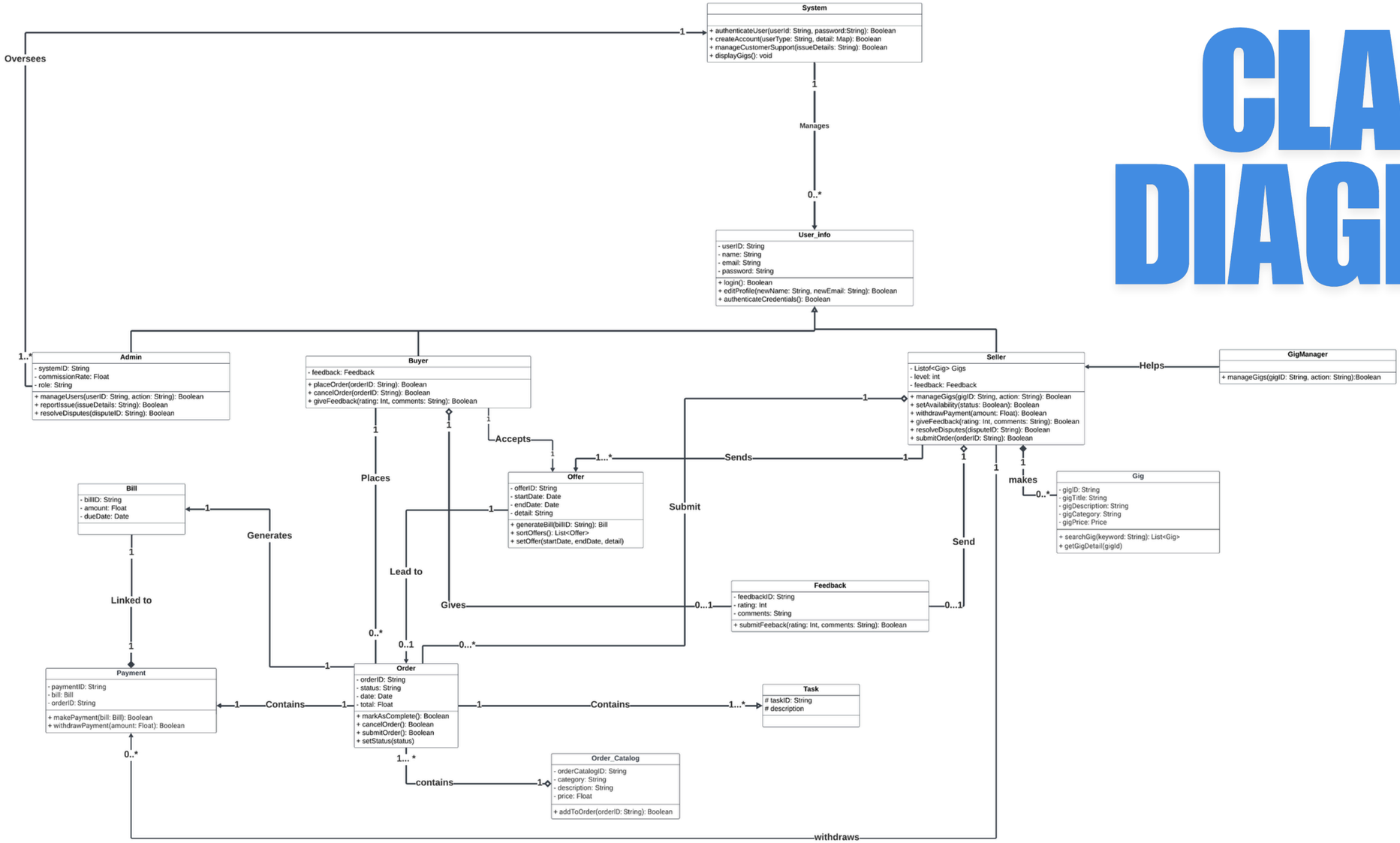
SSD for Buyer

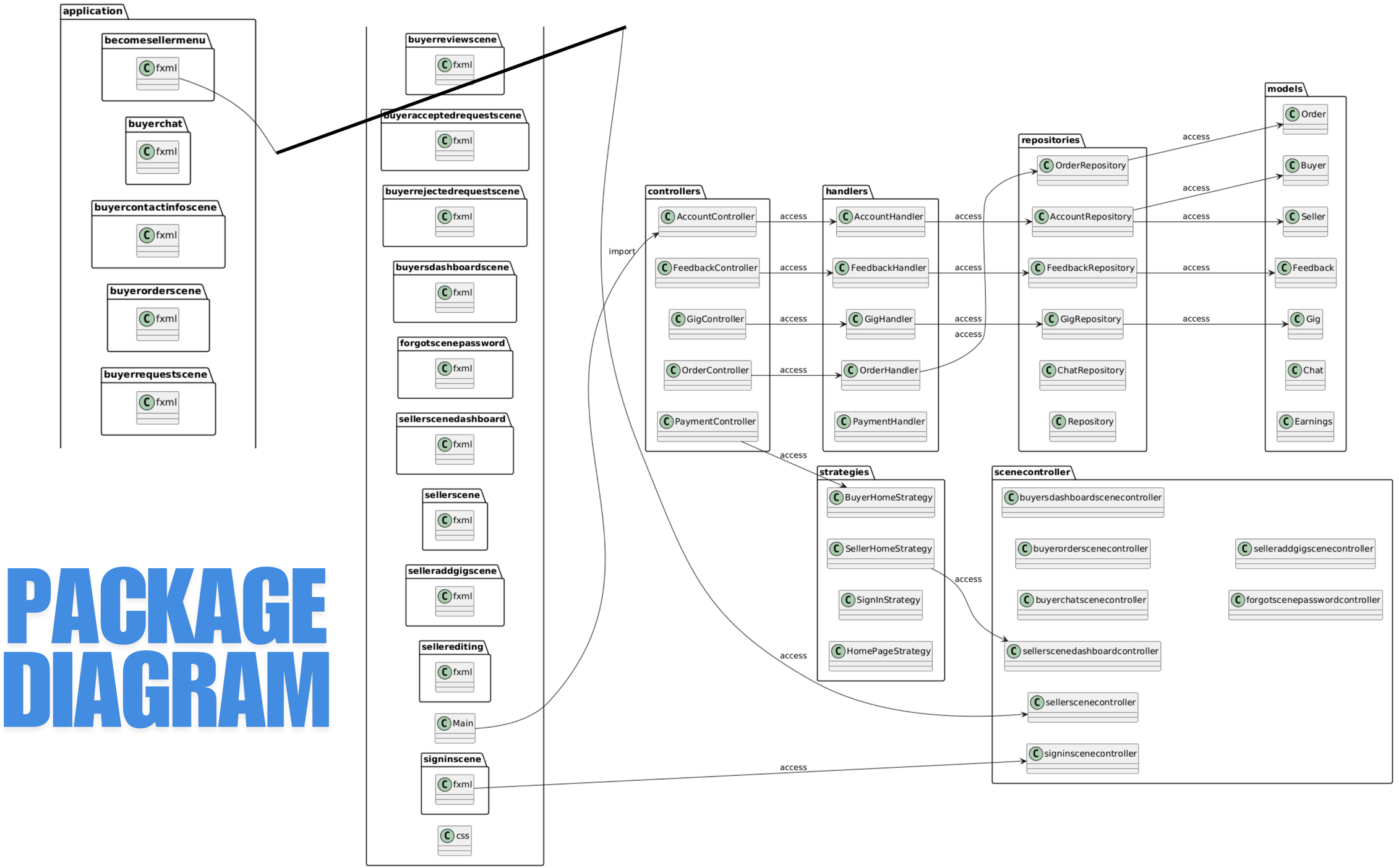


COMPONENT DIAGRAM



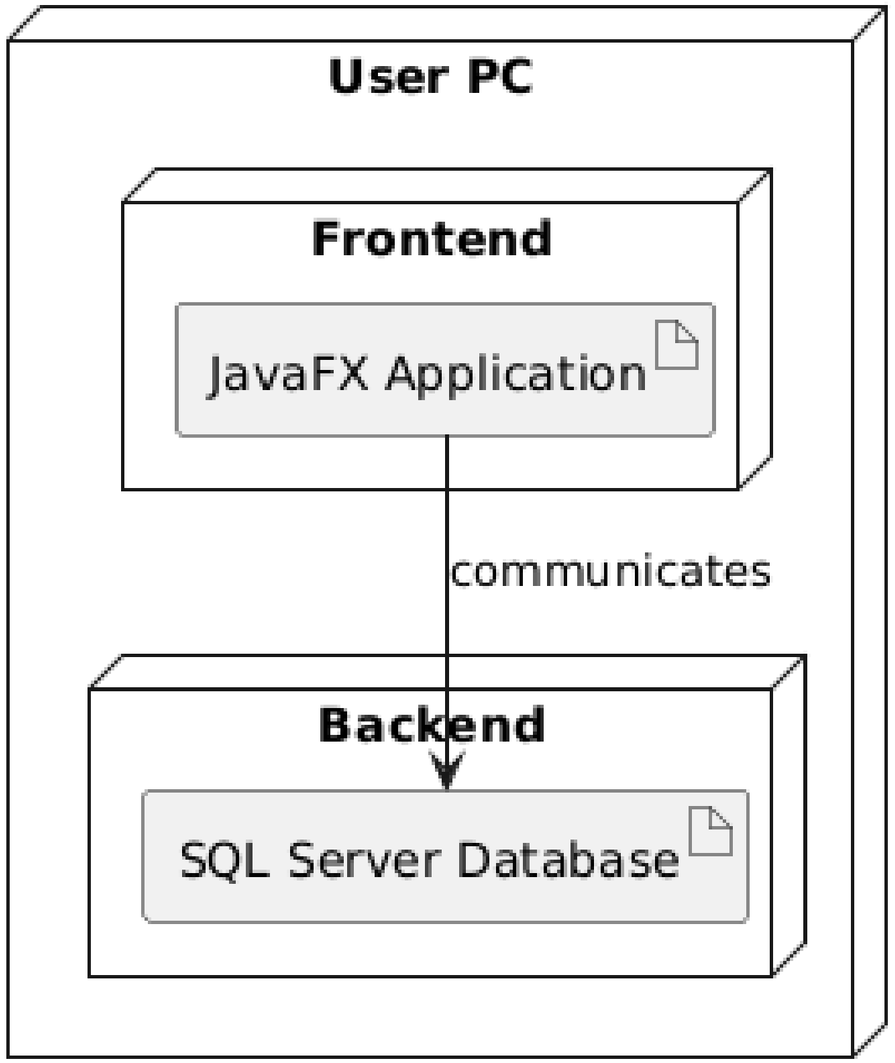
CLASS DIAGRAM





PACKAGE DIAGRAM

DEPLOYMENT DIAGRAM



THANK YOU