ClientConnectionSpain
+ client: ProxyClient
+scanner: BufferedReader
+ClientConnectionMexico(ProxyClient client, BufferedReader in)
+purchase(Connection connection): void
+connect(Connection connection): void
+purchaseMode(): void
+bankAccount1(Connection connection): void
+bankAccount2(Connection connection, String product): void

ClientConnectionUsa
+ client: ProxyClient
+scanner: BufferedReader
+ClientConnectionMexico(ProxyClient client, BufferedReader in)
+purchase(Connection connection): void
+connect(Connection connection): void
+purchaseMode(): void
+bankAccount1(Connection connection): void
+bankAccount2(Connection connection, String product): void

ClientManagerSpain
+in: BufferedReader
+ClientManagerSpain(BufferedReader in)
+logIn(String country): void
+signIn(): Client
+signUp(): Client

ClientManagerMexico
+in: BufferedReader
+ClientManagerMexico(BufferedReader in)
+logIn(String country): void
+signIn(): Client
+signUp(): Client

ClientConnectionMexico
+ client: ProxyClient
+scanner: BufferedReader
+ClientConnectionMexico(ProxyClient client, BufferedReader in)
+purchase(Connection connection): void
+connect(Connection connection): void
+purchaseMode(): void
+bankAccount1(Connection connection): void
+bankAccount2(Connection connection, String product): void

<<Interface>>
ClientConnectionInterface
+purchase(Connection connection): void
+ connect(Connection connection): void
+purchaseMode(): void
+bankAccount1(Connection connection): void
+bankAccount2(Connection connection, String product): void

<<Interface>>
ClientManagerInterface
+logIn(String country): void
+signIn(): Client
+signUp(String country): Client

ClientManagerUsa
+in: BufferedReader
+ClientManagerUsa(BufferedReader in)
+logIn(String country): void
+signIn(): Client
+signUp(): Client

Client
+username: Srtring
+password: String
+name: String
+Country: String
+phoneNumber : String
+adress: String
+bankAccount: long
+money: double
+setUsername(String username): void
+setPassword(String password): void
+setPhoneNumber(int phoneNumber): void
+setAdress(String adress): void
+setCountry(String country): void
+setMoney(double money): void
+setBankAccount(long bankAccount): void
+getUsername(): String
+getPassword(): String
+getPhoneNumber(): int
+getName(): String
+getAdress(): String
+getBankAccount(): long
+getMoney(): double
+getCountry(): String

UsaVirtualStore
-clients : LinkedList<ProxyClient>
-iterator: Iterator<Product>
-random: Random
-UsaVirtualStore(Iterator<Product> iterator)
+sayHi(): String
+options(): String
+addToCart(Connection connection, String name, Product product): void
+removeFromCart(Connection connection, String name, Product product): void
+printShoppingCart(Connection connection, String name): void
+purchaseShoppingCart(Connection connection, String name): void
+purchase(Connection connection, String name, Product product): void
+deliveryDate(): String
+goodBye(): void
+add(ProxyClient client): void
+remove(ProxyClient client): void
+products(): void

<<Interface>>
VirtualStore
+sayHi(): String
+options(): String
+addToCart(Connection connection, String name, Product product): void
+removeFromCart(Connection connection, String name, Product product): void
+printShoppingCart(Connection connection, String name): void
+purchaseShoppingCart(Connection connection, String name): void
+purchase(Connection connection, String name, Product product): void
+deliveryDate(): String
+goodBye(): void
+add(ProxyClient client): void
+remove(ProxyClient client): void
+products(): void

ClientConnection
-connection: Connection
-client: ProxyClient
-isConnected: boolean
-clientConnection: ClientConnectionInterface
-int: BufferedReader
+ClientConnection(BufferedReader in,Socket socket, ProxyClient client): void
+receivedMessage(Connection connection, String message): void
+database(String message): void
+connect(): void
+signIn(): void
+signUp(): void
+countryConnection(String country)

<<Interface>>
ClientInterface
+ setMoney(double money): void
+ getUsername(): String
+getPassword(): int
+getBankAccount(): long
+getCountry(): String
+getMoney(): double

MexicoVirtualStore
-clients : LinkedList<ProxyClient>
-iterator: Iterator<Product>
-random: Random
+MexicoVirtualStore(Iterator<Product> iterator)
+sayHi(): String
+options(): String
+addToCart(Connection connection, String name, Product product): void
+removeFromCart(Connection connection, String name, Product product): void
+printShoppingCart(Connection connection, String name): void
+purchaseShoppingCart(Connection connection, String name): void
+purchase(Connection connection, String name, Product product): void
+deliveryDate(): String
+goodBye(): void
+add(ProxyClient client): void
+remove(ProxyClient client): void
+products(): void

ProxyCLient
-client: Client
-username: String
-password: int
-name: String
-phoneNumber: long
-address: String
-bankAccount: long
-country: String
-money: double
-shoppingCart: LinkedList<Product>
+ProxyClient(Client client)
+setMoney(double money)
+getUsername(): String
+getPassword(): int
+getName(): String
+getPhoneNumber(): long
+getAddress(): String
+getBankAccount(): long
+getCountry(): String
+getMoney(): double
+setOnRealValues(): void
+addToShoppingCart(Product product): void
+removeFromShoppingCart(Product product): void
+getShoppingCart(): LinkedList<Product>
+toString(): String
+toString2(): String
+equals(): boolean
+clearShoppingCart(): void

Connection
+in: BufferedReader
+out: BufferedWriter
+socket: Socket
+isActive: boolean
+listeners: LinkedList<ConnectionListener>
+Connection(Socket socket)
+receiveMessages(): void
+sendMessage(String message): void
+sendDataBase(VirtualStore store, Iterator<Product> iterator): void
+disconnect(): void
+isActive(): boolean
+addListener(ConnectionListener listener)

StoreServer
-database: Database
-store: VirtualStore
-serverSocket: ServerSocket
-port: int
-connections: LinkedList<Connection>
-isRunning: boolean
-listeners: LinkedList<ServerListener>
-clients: LinkedList<ProxyClient>
+StoreServer(int port)
+serve(): void
+addListener(ServerListener listener): void
+databaseRequest(Connection connection): void
+catalogue(Connection connection): void
+toDisconnect(Connection connection): void
+error(Connection connection, String message): void
+disconnect(Connection connection): void
+clientSignIn(Connection connection, String client): void
+clientSignUp(Connection connection, String client): void
+purchaseMode(Connection connection): void
+addToCart(Connection connection, String client, String product,): void
+removeFromCart(Connection connection, String client, String product)): void
+printShoppingCart(Connection connection, String client): void
+purchaseShoppingCart(Connection connection, String client): void
+purchase(Connection connection, String client, String product): void
+country(,Connection connection, ProxyClient proxy): void
+options(): String
+writeMessage(String format, Object ... arguments): void
+createDatabase(): Database

<<Interface>>
ConnectionListener
+receivedMessage(,Connection connection, String message): void

<<Interface>>
ServerListener
+processMessage(String format, Object ... arguments): void

SpainVirtualStore
-clients : LinkedList<ProxyClient>
-iterator: Iterator<Product>
-random: Random
+SpainVirtualStore(Iterator<Product> iterator)
+sayHi(): String
+options(): String
+addToCart(Connection connection, String name, Product product): void
+removeFromCart(Connection connection, String name, Product product): void
+printShoppingCart(Connection connection, String name): void
+purchaseShoppingCart(Connection connection, String name): void
+purchase(Connection connection, String name, Product product): void
+deliveryDate(): String
+goodBye(): void
+add(ProxyClient client): void
+remove(ProxyClient client): void
+products(): void

DataBase
+products: Product[][]
+food: int
+electronic: int
+appliance : int
+Database()
+addProduct(Product product): void
+removeProduct(Product product): void
+iterator(): Iterator<Product>

DatabaseIterator
+i: int
+j: int
+DatabaseIterator()
+hasNext(): boolean
+next(): Product

Product
-name: String
-barcode: long
-department: String
-price: double
+Product(String name, long barcode, String department, double price)
+getName(): String
+getBarcode(): long
+getDepartmentget(): String
+getPrice(): double
+toString(): String
+toString2(): String
+equals(Object object): boolean

ClientManager
+main()

Server
+main()
-usage(): static void
+binnacle(String format, Object ... arguments): static void