Homework04-SSD

Buy a Product

:Customer → **:System** : browseCatalogue

:System ⇠ **:Customer** : catalogue information

Loop [more items]
- selectItem(itemID, quantity)
- description, total

requestCheckout

total, shiping infor

fillShippingInfor

full pricing information

makeCreditPayment

requestAuthorization(creditInfor) → :Credit Card Service

authorization

purchase authorization, sale confirmation

requestEmail(emailInfor) → :Email Service

sale confirming email

Homework04 - Activity Diagram

Customer   **System**

```
        ●
        │
        ▼
┌─────────────────┐
│     Browse      │
│   Catalogue     │────────────────┐
└─────────────────┘                │
        │                          │
        ▼                          ▼
┌─────────────────┐      ┌─────────────────┐
│  Select Items   │      │ Present  Pricing│
│                 │      │  Information    │
└─────────────────┘      └─────────────────┘
        │                          │
        ▼                          │
┌─────────────────┐                │
│  Go to Checkout │                │
│                 │                │
└─────────────────┘                │
        │                          │
        ▼                          ▼
┌─────────────────┐      ┌─────────────────┐
│ Fill in Shipping│      │    Authorize    │
│   Information   │      │    Purchase     │
└─────────────────┘      └─────────────────┘
        │                          │
        │                          ▼
        ▼                 ┌─────────────────┐
┌─────────────────┐      │  Confirm Sale   │
│ Fill in Credit  │      │                 │
│ Card            │      └─────────────────┘
│ Information     │               │
└─────────────────┘               ▼
        │                 ┌─────────────────┐
        │                 │   Send  Email   │
        │                 │                 │
        │                 └─────────────────┘
        │                          │
        │                          ▼
        └──────────────────────▶  ◉
```
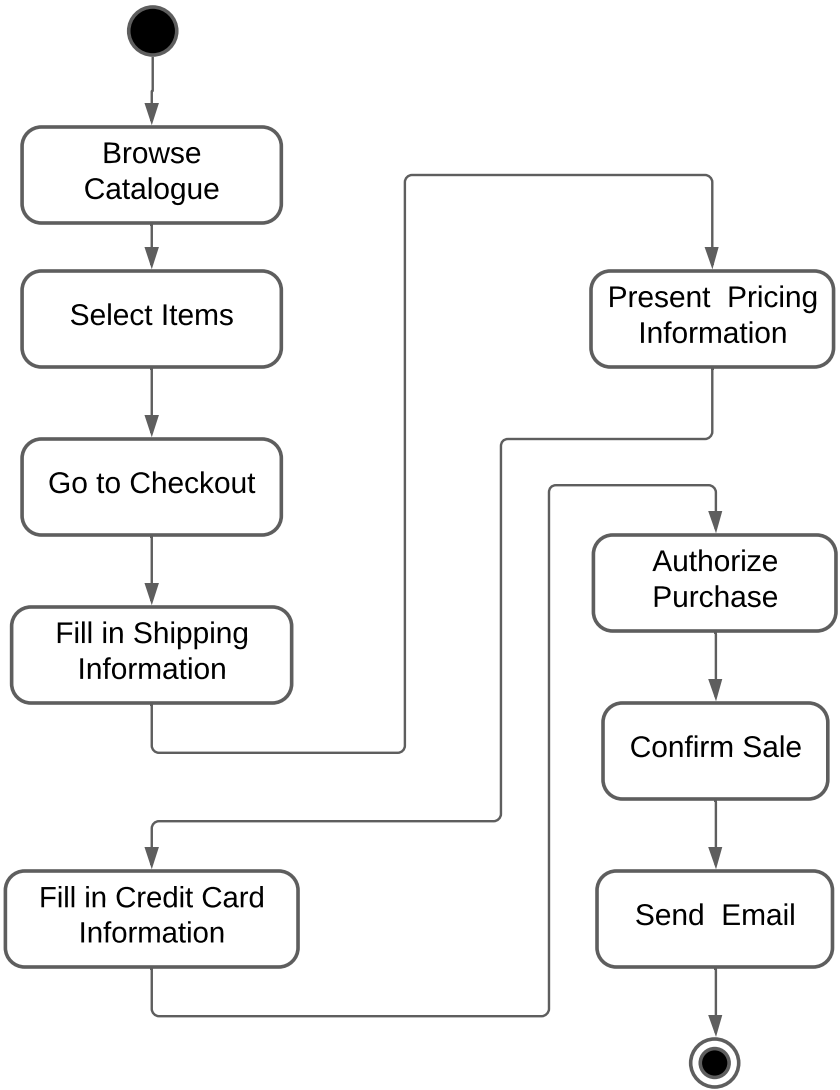
Homework04 - Domain Model

Customer

id: String {id }
name: String
address: Address
phone: Phone
email:String

— Uses — 1 ... * —

CustomerAccount

id: String {id}
billing_address: Address
is_closed:Boolean
open: Date
closed: Date

— Authories ◇ —

DeliveryOrder

number: String {d}
ordered: Date
shipped: Date
ship_to: Address
status: OrderStatus
total: Real

— Paid by — * ... 1 —

CreditPayment

id:String {id}
paid: Date
total: Real
details: String

Customer — * — Browses — 1

Catalog

id: String {id}
itemDescription: String
unitPrice: Real
supplierId: String {id}

— Describes — 1 ... * —

Item

id: String {id}
name: String
supplier: Supplier

LineItem

quantity: Integer
price: Price

CreditPayment — * — Authorized by — 1

**<<Service>>
CreditCardService**

Catalog — 1 — Maintained by — 1

Supplier

id: String {id }
name: String
address: Address
phone: Phone
email:String

— Uses — 1 ... 1..* —

**<<Service>>
EmailService**