

Demo video link

(slides follow)

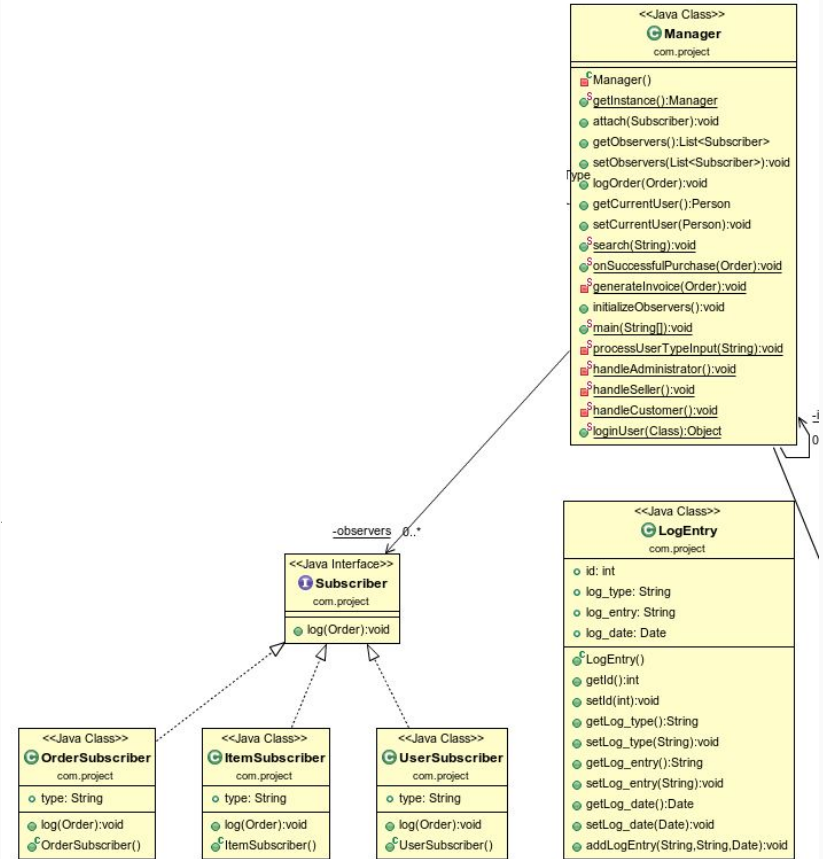
<https://drive.google.com/file/d/0B6ppjDCj8QS3TXBXdWliemISUWc/view?usp=sharing>

Marketplace (Group 31)

Rohit Gupta
Corin Sandford
Mike Gore



Design Pattern: Observer



Log Entries in Hibernate

```
@Entity
@Table(name = "log",
        uniqueConstraints={@UniqueConstraint(columnNames={"log_id"})})
public class LogEntry {

    @Id
    @GeneratedValue(strategy=GenerationType.AUTO)
    @Column(name = "log_id", nullable = false, unique = true)
    public int id;

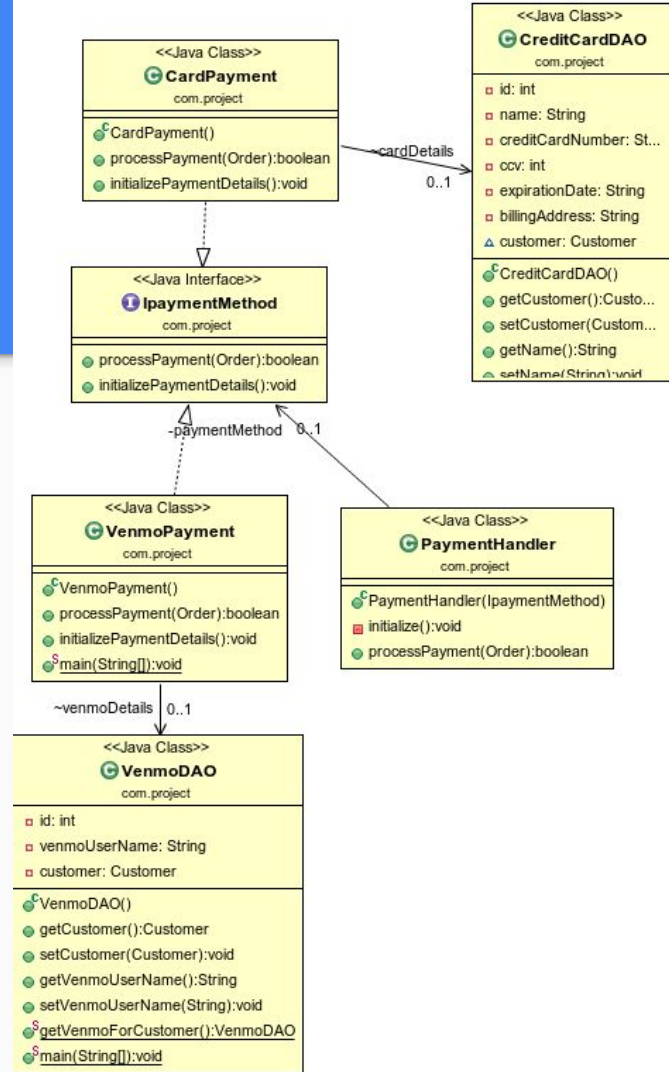
    @Column(name = "log_type")
    public String log_type;

    @Column(name = "log_entry")
    public String log_entry;

    @Column(name = "date")
    public Date log_date;
```

Design Pattern: Strategy

Used for Credit Card payments



Strategy Pattern

```
@Entity
@Table(name = "customer")
@AttributeOverride(name = "id", column = @Column(name = "customer_id"))
public class Customer extends Person {

    // TODO
    @Transient
    private Membership membership;

    @OneToOne(mappedBy = "customer", cascade = { CascadeType.ALL }, fetch = FetchType.LAZY)
    private Cart cart;

    @Transient
    private HashMap<Integer, Order> user_orders = new HashMap<>();
```

Strategy Pattern

```
@Entity
@Table(name = "cart", uniqueConstraints = { @UniqueConstraint(columnNames = { "cart_id" }) })
public class Cart {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Column(name = "cart_id", nullable = false, unique = true, length = 11)
    private int id;

    @ElementCollection
    @MapKeyJoinColumn(name = "item_id")
    @Column(name = "quantity")
    @CollectionTable(name = "cart_items", joinColumns = @JoinColumn(name = "cart_id"))
    private Map<Item, Integer> itemCountMap;

    @OneToOne(optional = false)
    @JoinColumn(name = "customer_id")
    private Customer customer;
```


Thanks!