(Project 2 – Web Services)

Software Design Document

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1. INTRODUCTION

1.1 Purpose

This software design document describes the architecture of the Project 2 implementation of the course COMP 433 – WebServices from Loyola University of Chicago.

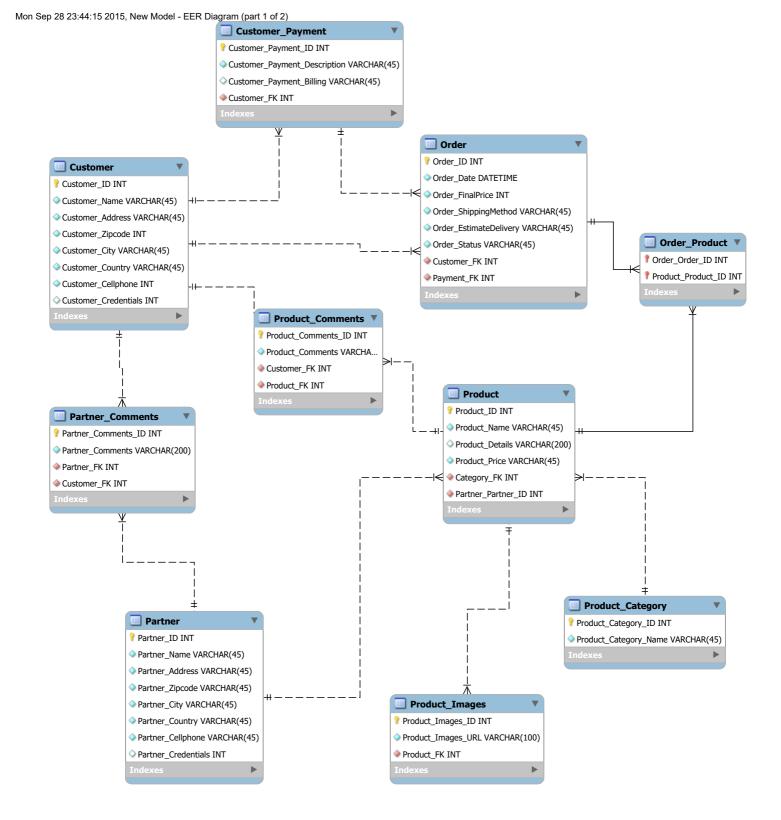
1.2 Scope

This software consists of two layers. The first layer is the database, where we use MySQL Azure for hosting. The second layer is the persistence layer, where we implemented in Java/Eclipse, using Hibernate.

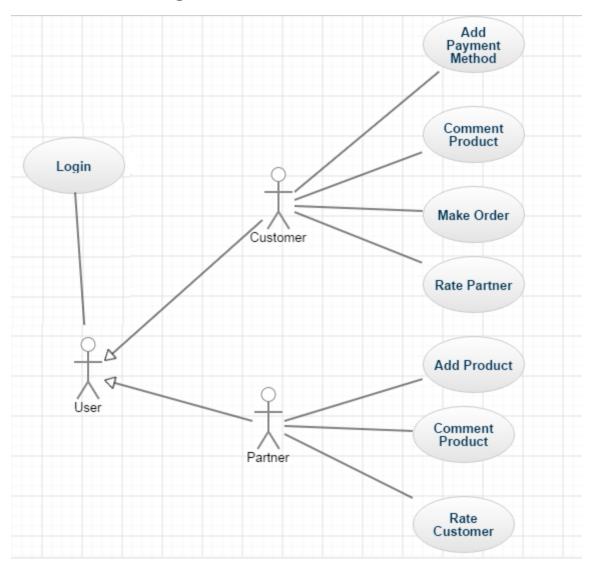
2. DIAGRAMS

2.1 ER Diagram

We created ten database tables to complete the first layer. Here is the diagram correlated:



2.2 Use Case Diagram



2.3 Classes

Below is a list of all classes of our project and the respective attributes and methods.

2.3.1 Customer Class



2.3.2 CustomerPayment Class



2.3.3 Order Class

Object
com::hibernate::project:: <mark>Order</mark>
Properties
+ customer : Customer
+ customerPayment : CustomerPayment
+ orderDate : Date
+ orderEstimateDelivery : String
+ orderFinalPrice : int
+ orderld : Integer
+ orderShippingMethod : String
+ orderStatus : String
+ products : Set <product></product>
Constructors
+ Order() : void
+ Order(Customer, CustomerPayment, Date, int, String, String, String): void
+ Order(Customer, CustomerPayment, Date, int, String, String, String, Set <product>): void</product>

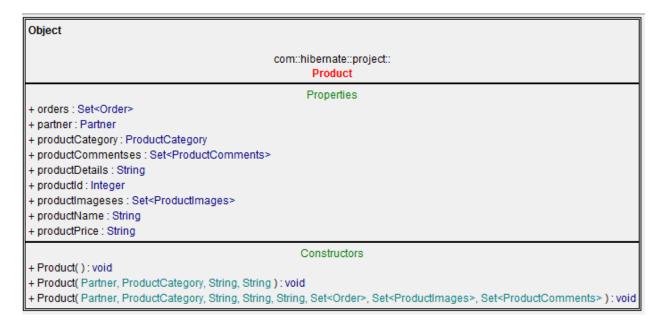
2.3.4 Partner Class

```
Object
                                        com::hibernate::project::
                                                Partner
                                               Properties
+ partnerAddress : String
+ partnerCellphone : String
+ partnerCity : String
+ partnerCommentses : Set<PartnerComments>
+ partnerCountry: String
+ partnerCredentials : Integer
+ partnerId : Integer
+ partnerName : String
+ partnerZipcode : String
+ products : Set<Product>
                                             Constructors
+ Partner(): void
+ Partner( String, String, String, String, String, String ): void
+ Partner( String, String, String, String, String, Integer, Set<Product>, Set<PartnerComments> ): void
```

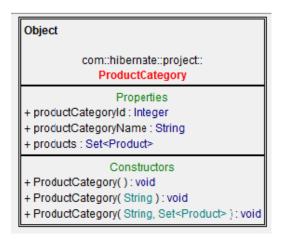
2.3.5 PartnerComments Class



2.3.6 Product Class



2.3.7 ProductCategory Class



2.3.8 ProductComments Class

Object
com::hibernate::project:: ProductComments
Properties + customer : Customer + product : Product + productComments : String + productCommentsId : Integer
Constructors + ProductComments(): void + ProductComments(Customer, Product, String): void

2.3.9 ProductImages Class

