CITY UNIVERSITY

Mid Term Exam

Department Name: Computer Science & Engineering

Course Code :CSE-325

Course Name: System Analysis & Design

Task Name: *1.Use Case Diagram of a Banking Management System.*
2. Class Diagram of an Online Shopping System.

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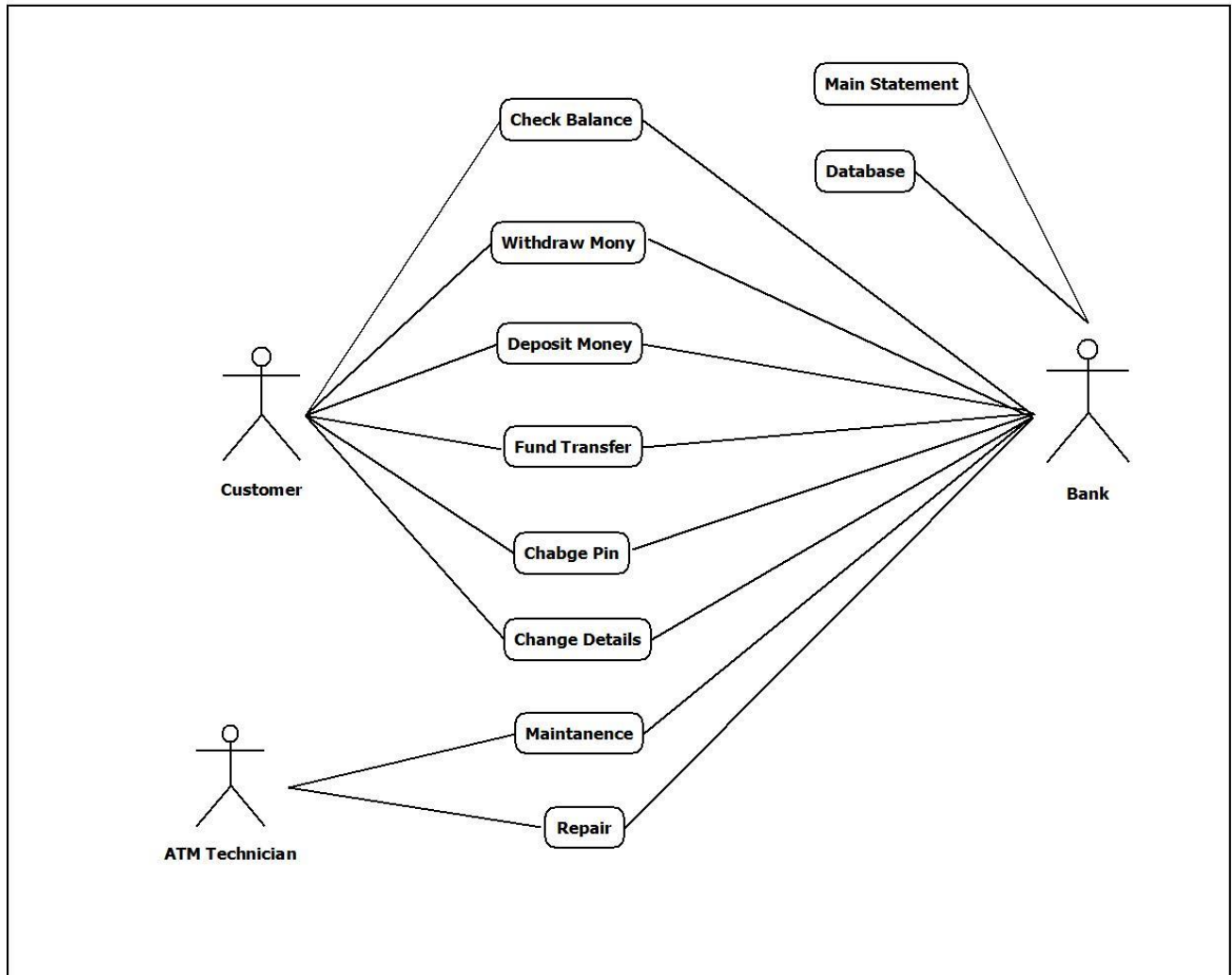Sr.Lecturer, Department
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Date Of Submission:27.05.19

System Analysis & Design

Contents

System Analysis & Design

Task Name: Use case of Banking Application

Banking App Use Case

Check Balance

Withdraw Mony

Deposit Money

Fund Transfer

Chabge Pin

Change Details

Maintanence

Repair
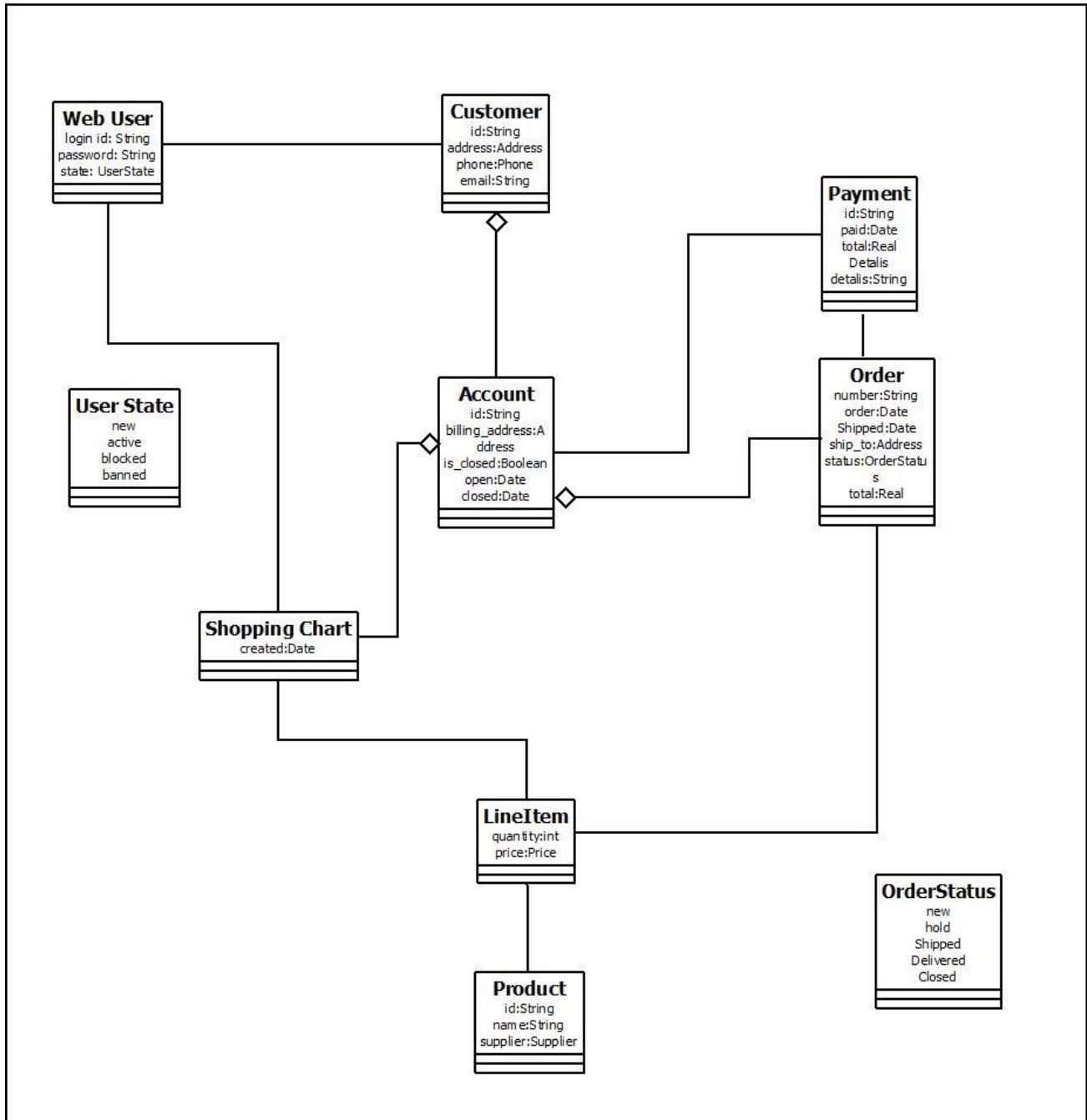
Main Statement

Database

Customer

Bank

ATM Technician

Abstract

For solving financial applications of a customer in banking environment in order to nurture the needs of an end banking user by providing various ways to perform banking tasks.

This project is developed using PHP, HTML language and MYSQL use for database connection. Creating and managing requirements is a challenge of IT, systems and product development projects or indeed for any activity where you have to manage a contractual relationship. Organization need to effectively define and manage requirements to ensure they are meeting needs of the customer, while proving compliance and staying on the schedule and within budget. The impact of a poorly expressed requirement can bring a business out of compliance or even cause injury or death. Requirements definition and management is an activity that can deliver a high, fast return on investment. The project analyzes the system requirements and then comes up with the requirements specifications. It studies other related systems and then come up with system specifications. The system is then designed in accordance with specifications to satisfy the requirements. The system design is then implemented with MYSQL, PHP and HTML. The system is designed as an interactive and content management system. The content management system deals with data entry, validation confirm and updating whiles the interactive system deals with system interaction with the administration and users. Thus, above features of this project will save transaction time and therefore increase the efficiency of the system.

Task Name: Class Diagram of Online Shopping

E-commerce Shopping Class Diagram

Web User
login id: String
password: String
state: UserState

Customer
id:String
address:Address
phone:Phone
email:String

Payment
id:String
paid:Date
total:Real
Detalis
detalis:String

User State
new
active
blocked
banned

Account
id:String
billing_address:Address
is_closed:Boolean
open:Date
closed:Date

Order
number:String
order:Date
Shipped:Date
ship_to:Address
status:OrderStatus
total:Real

Shopping Chart
created:Date

LineItem
quantity:int
price:Price

OrderStatus
new
hold
Shipped
Delivered
Closed

Product
id:String
name:String
supplier:Supplier

Online Shopping UML Class Diagram

Conceptual Class Diagram of Online Shopping System. Unified Modeling Language (UML) is the de facto standard for requirements modeling and system design. UML as a visual language can tremendously help customers, project managers, and developers to specify the requirements of a target system. Here we provide an example of UML class diagram which shows a domain model for online shopping. The purpose of the diagram is to introduce some common terms, "dictionary" for online shopping Customer, Web User, Account, Shopping Cart, Product, Order, Payment, etc. and relationships between. It could be used as a common ground between business analysts and software developers. Each customer has unique id and is linked to exactly one account. Account owns shopping cart and orders. Customer could register as a web user to be able to buy items online. Customer is not required to be a web user because purchases could also be made by phone or by ordering from catalogues. Web user has login name which also serves as unique id. Web user could be in several states - new, active, temporary blocked, or banned, and be linked to a shopping cart. Shopping cart belongs to account. Account owns customer orders. Customer may have no orders. Customer orders are sorted and unique. Each order could refer to several payments, possibly none. Every payment has unique id and is related to exactly one account. Each order has current order status. Both order and shopping cart have line items linked to a specific product. Each line item is related to exactly one product. A product could be associated to many line items or no item at all.

Goal

Shopping has long been considered a recreational activity by many. Shopping online is no exception. The goal of this application is to develop a web based interface for online retailers. The system would be easy to use and hence make the shopping experience pleasant for the users. The goal of this application is

• To develop an easy to use web based interface where users can search for products, view a complete description of the products and order the products.

• A search engine that provides an easy and convenient way to search for products specific to their needs. The search engine would list a set of products based on the search term and the user can further filter the list based on various parameters.

• An AJAX enabled website with the latest AJAX controls giving attractive and interactive look to the web pages and prevents the annoying post backs.

• Drag and Drop feature which would allow the users to add a product to or remove a product from the shopping cart by dragging the product in to the shopping cart or out of the shopping cart.

• A user can view the complete specification of the product along with various images and also view the customer reviews of the product. They can also write their own reviews.