



BACHELOR PROJECT

PROJECT TITLE BANK AUCTION SYSTEM

SUBMITTED BY

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SUMBITTED TO

Faysal Mazed

April 2020

Bank Auction System Documentation

Dedication

This project is dedicated to all private banks in Bangladesh for build their loan related auction through this online platform. Private Banks just register in this site and add their products to be auctioned.

Project in Brief

Project Title: Bank Auction System

Undertaken by:	Name: Ruyhanur Rahaman	ID: 171-35-2079
	Name: Akter Hosain Pranto	ID: 171-35-2085

Supervised by: Faysal Mazed

Date Started: 03 February 2020

Date Completed: 06 April 2020

Tools Used: Xampp, SublimeText3, PHP language(OOP)

Operating System: Windows 10, 64-bit Operating System

Abstract

BANK AUCTION is a system which is use only for Private Banks auction in Bangladesh. At first bank have to register with all information in this system. Then the bank have to wait for 24 hours until admin activate the account. When account is activated then registered bank will able to login access with the given email and password. Then bank will add their products for auction which will be showed in the home page with the bank name and full details of the product.

Customer can see all the products and will able to bid for win the product. For bid customer have to complete their registration and have to login with their email and password.

Customer can bid for the product until expiration.

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Chapter 1

Introduction

1 Introduction

1.1 About the System

BANK AUCTION is a system which is use only for Private Banks auction in Bangladesh. Private bank can register with required details and held their auctions into this site. Consumer will bid product in specific time and can win the product.

1.2 Purpose

Easy to held all bank loan related auction through online.

1.3 Scope

System is only for private banks in Bangladesh.

1.4 Vision

Vision is to make Bank Auction system for held loan related auction through online easily.

1.5 Why this system is necessary?

This system is necessary to control whole private bank auctions. This system will help Private Banks for held their all kind of auction easily.

1.6 Proposed Solution

There are 13 feature in this system and I have done all of them.

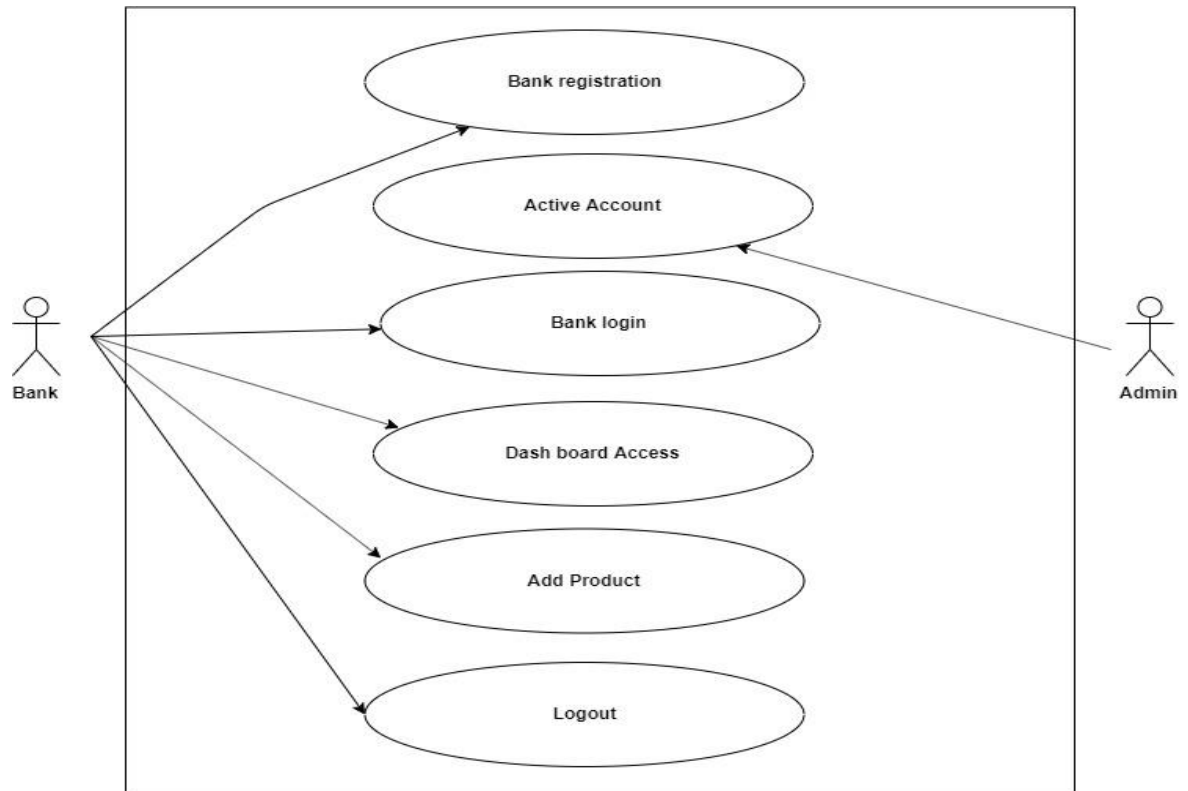
Chapter 2

System Analysis

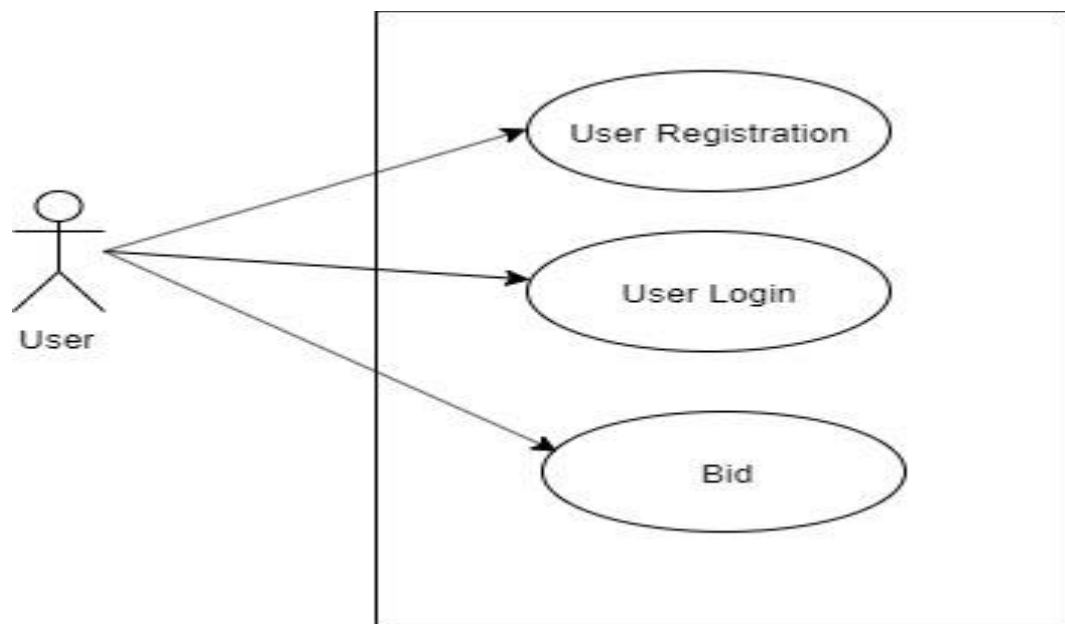
2. System Analysis

2.1 Use Case Model for 3 Types user

Use Case for Bank and Admin



Use Case for users



2.2 Actor Goal List

ACTOR	GOAL LIST
BANK	Create Auction online for BID
ADMIN	Manage Bank Accounts
USER	Bid the product and win

2.3 Use Case Description (Brief)

2.3.1 For Banks

Use Case ID	1
Name	Bank Auction System.
Primary Actor	Banks.
Secondary Actor	No.
Goal	Create loan related Auction Online.
Precondition	Bank should register for create account.
Post Condition	Only registered banks can use this system.
Main Success Scenario	<ol style="list-style-type: none"> 1. Bank must be enter registered email and password. 2. Bank have create a product category first. 3. Bank can add products for auction with category. 4. Bank can set a limited date and time for bid while adding the product. 5. Banks can delete and update category and products. 6. While some one bid for the product banks will get a message in the inbox with all details.
Scenario Extensions	<ol style="list-style-type: none"> 1. When Banks enter invalid email and password the system will automatically show a message. 2. Banks can't login until admin approve the account

2.3.2 For Admin

Use Case ID	2
Name	Bank Auction System.
Primary Actor	Admin.
Secondary Actor	No.
Goal	Verification and activate/deactivate account.
Precondition	Admin can control the whole site.
Post Condition	Banks can't access until admin approval.
Main Success Scenario	<ol style="list-style-type: none"> 1. Admin will login with email and password set by himself. 2. Admin can see how many banks registered on the site. 3. Admin can activate and deactivate the bank accounts.
Scenario Extensions	<ol style="list-style-type: none"> 1. When Admin activate banks account banks will able to access the dashboard for held auctions.

2.3.3 For Consumers

Use Case ID	3
Name	Bank Auction System.
Primary Actor	Consumers.
Secondary Actor	No.
Goal	Bid for win the product.
Precondition	Consumers have register into the site for attend bid.
Post Condition	Consumers have increase their bid from the last bid.
Main Success Scenario	<ol style="list-style-type: none"> 1. Consumers will login with email and password from register. 2. Consumers can see all the auction products with Bank name and other details. 3. While consumer enter into a product he/she can see how many time left for bid the Product. 4. Consumers will able to see the last bid amount of the product 5. Consumer can attend the bid entering amount greater than the last bid amount. 6. Winner will get a message from bank.
Scenario Extensions	<ol style="list-style-type: none"> 1 When consumers enter invalid email and password the system will automatically show a message.

2.4 Activity diagram

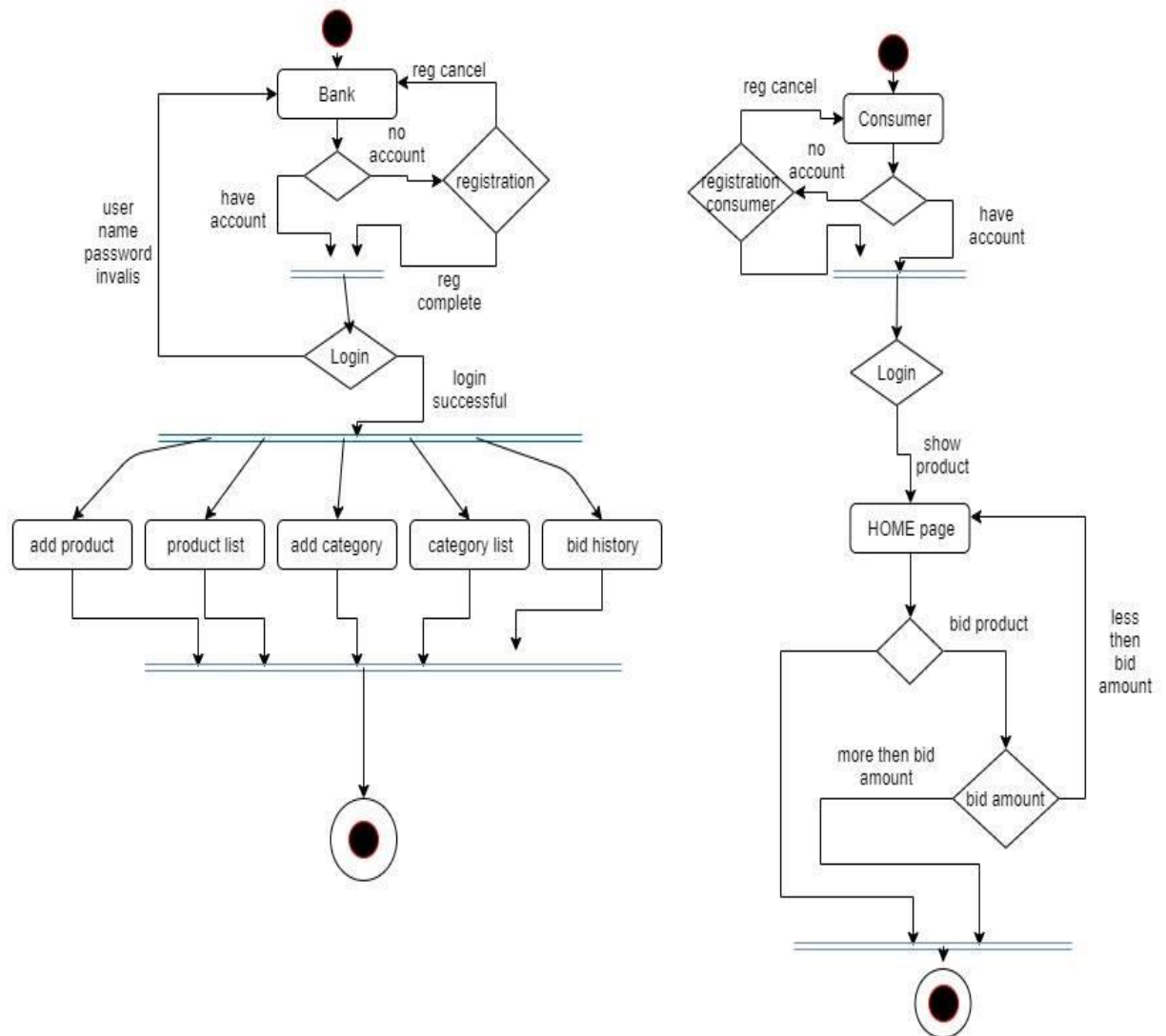


Figure 2.18 Activity Diagram of the system

Chapter 3

System Design

3. System Design

3.1 Sequence Diagrams

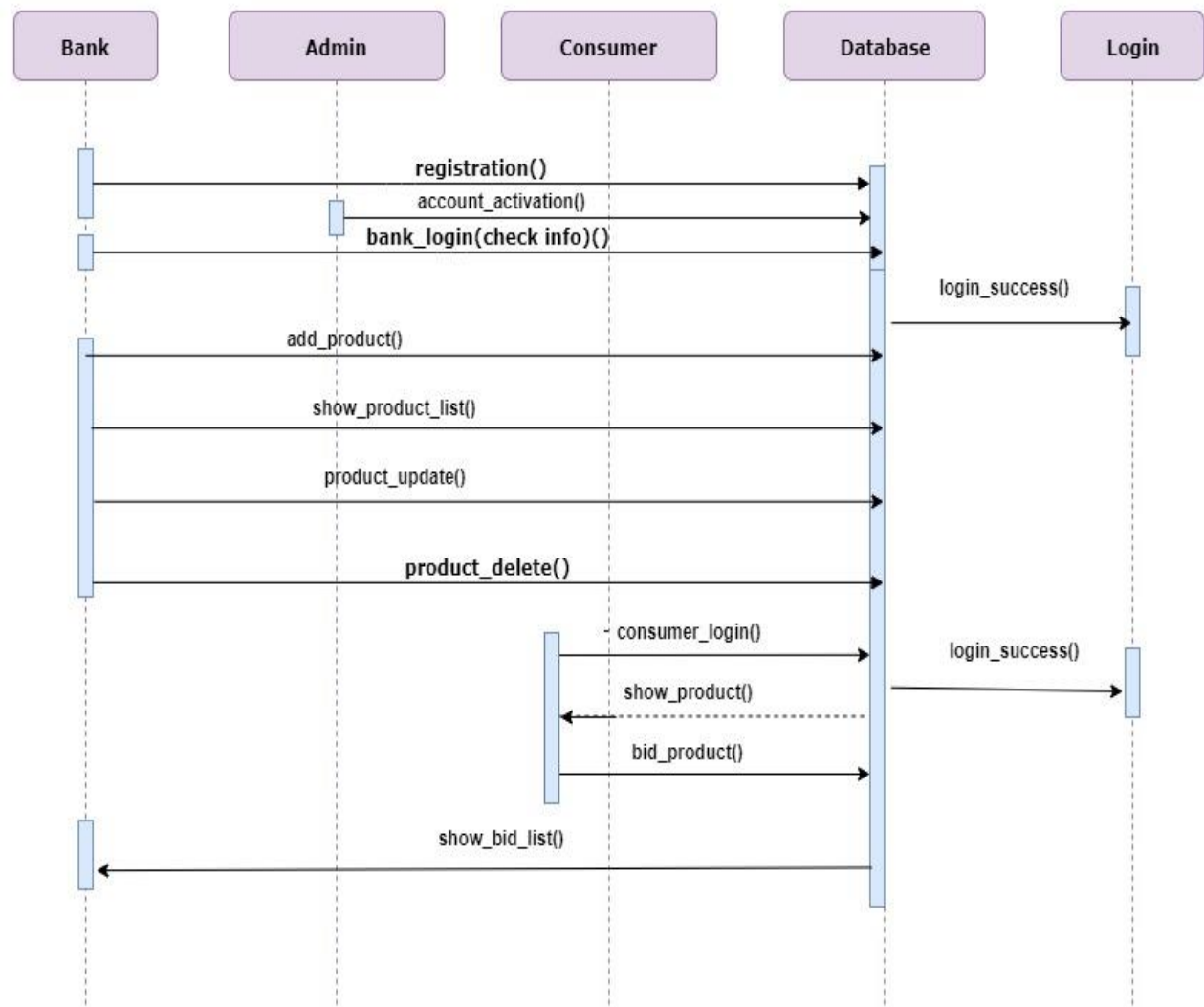


Figure 3.8 Sequence Diagram of System

3.2 Class Diagram

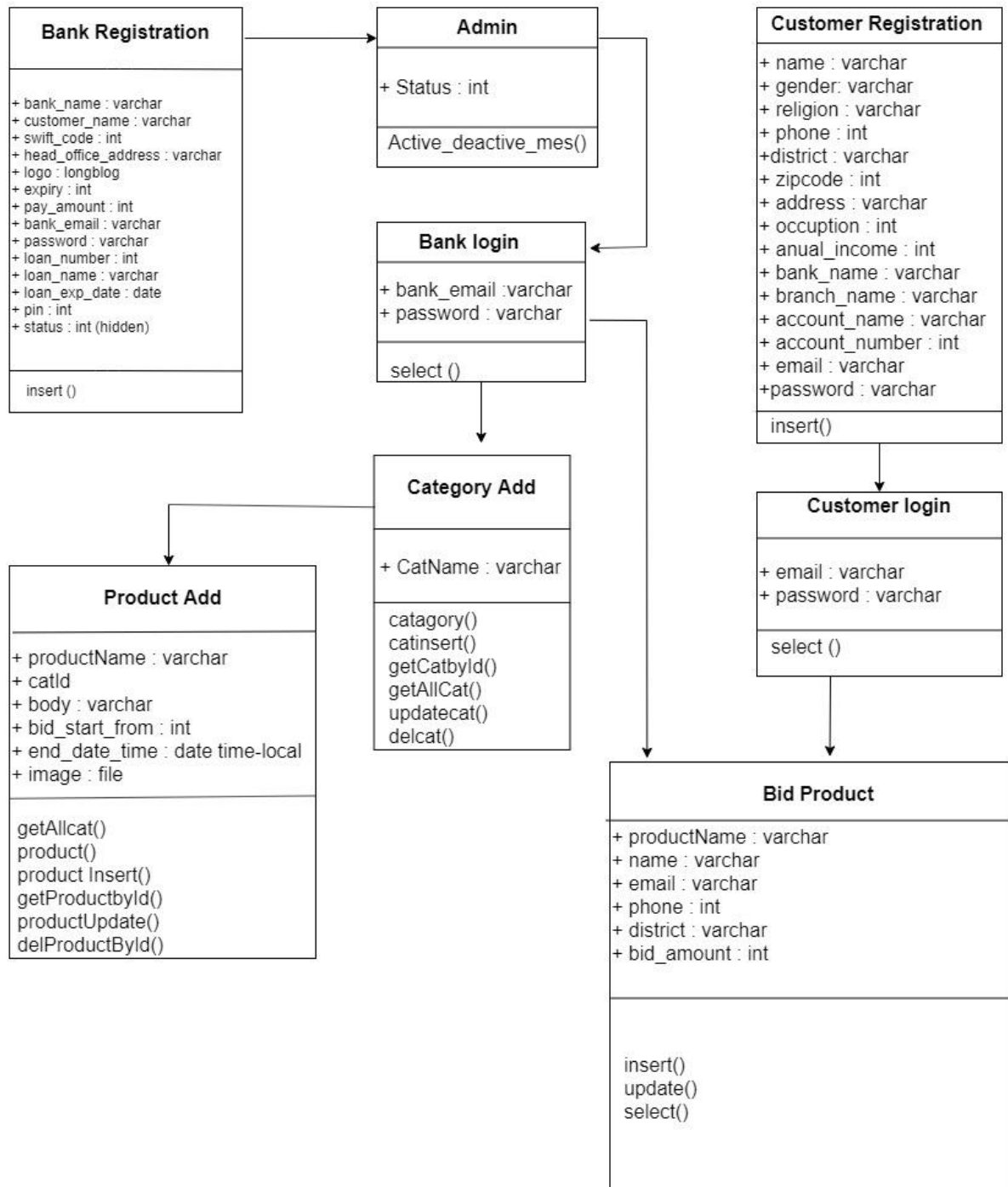


Figure 3.8 Class Diagram of System

3.3 Entity Relationship Diagram

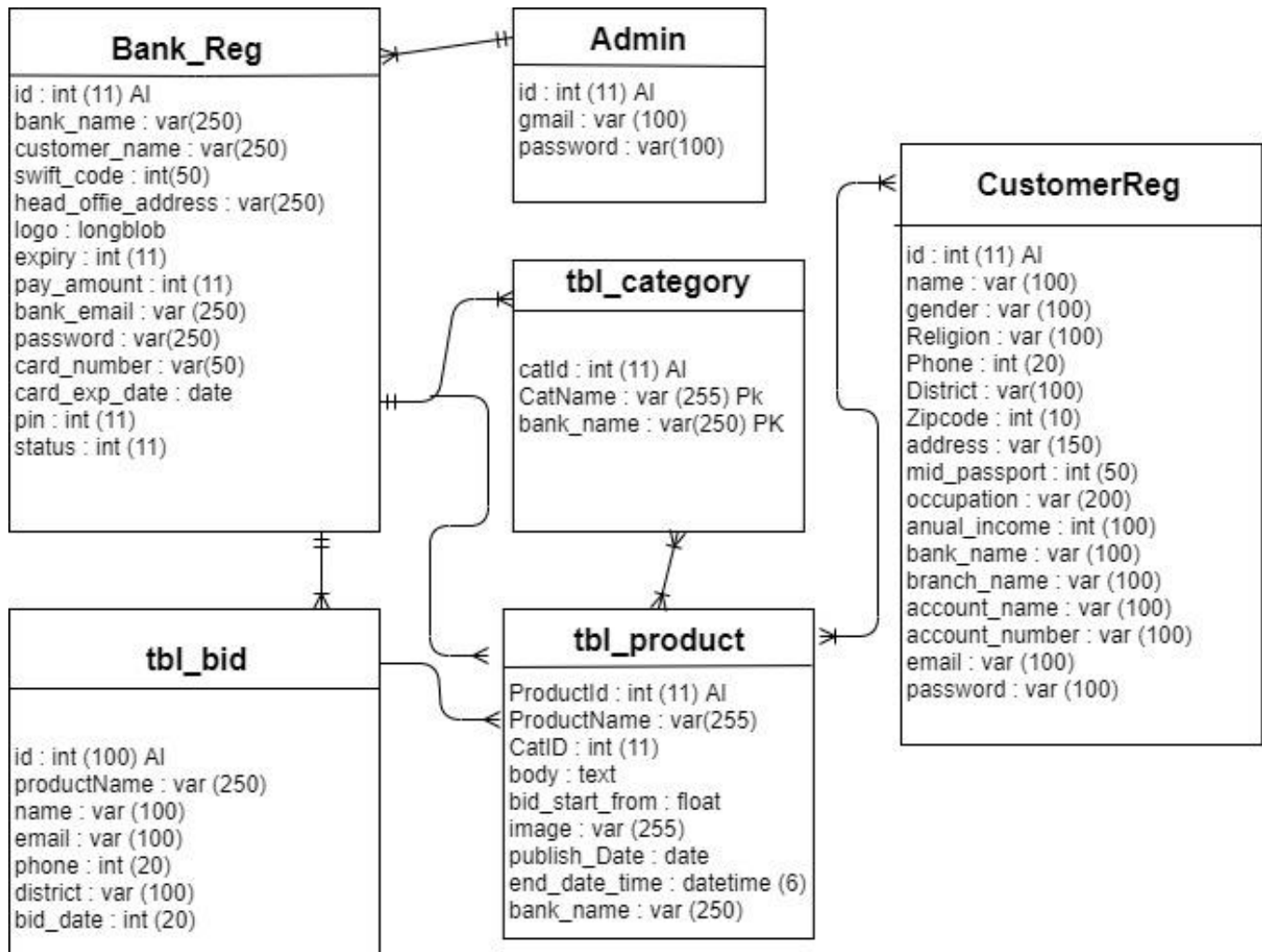


Figure 3.9 Entity Relationship Diagram

Chapter 4

Implementation

4. Implementation

Bank Auction system is a web application which is implemented by our group of three member. Three of us spend our time developing this project. Team members are ruyhan, pranto and shimul. We implement this with php language using xampp server and sql database. I specially worked on behind bank dashboard panel where registered banks can add products for auction with limited time in online market place. My both team member also helped me a lot and one member worked on design and other member worked on customer panel where customer will bid for product.

4.1 Tools &Technologies

Following are the tools and technologies used in development of this project:

Sublime Text 3

Phpmyadmin SQL Server

Xampp

PHP coding

HTML5, CSS, JavaScript, J-query, bootstrap

4.2 Project Link

<https://github.com/ruyhan-DIU/BankAuctionSystem.git>

Chapter 5

System Testing

5. System Testing

5.1 Why Software Testing is Essential?

Testing each unit is important because all units must perform in an efficient manner. Software testing is now a key component of software product development because it improves consistency and performance

5.1.1 Black box testing

Black Box Testing is a software testing method in which the internal structure/ design/ implementation of the item being tested is NOT known to the tester

5.1.2 White box testing

White Box Testing is a software testing method in which the internal structure/ design/ implementation of the item being tested is known to the tester.

5.2 Test Cases

5.2.1 Test case: Sign up for both Banks and Consumers

Project: Bank Auction System

Test case ID	TC 001
Test case manager	ruyhan
Functional area	Sign up
Test name	Sign up with empty fields.
Objective	The purpose of this test case is to verify that none of the fields remain empty when a user signs up to create his account.
Pre-requisite	The application is running and displaying sign up form.
Steps to perform	1. Submit the form with a number of empty fields. 2. Click the sign up button.
Expected result	Error message is displayed indicating empty fields.
Test result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

5.2.2 Test case: login for both Banks and Consumers

Test case ID	TC 002
Test case manager	ruyhan
Functional area	login
Test name	Login up with empty fields.
Objective	The purpose of this test case is to verify email and password when a user login to the system.
Pre-requisite	The application is running and login into system.
Steps to perform	1. Login with form with invalid data. 2. Click the login button.
Expected result	Error message is displayed indicating invalid username password.
Test result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

5.2.3 Test case: Product and category add for Banks

Test case ID	TC 003
Test case manager	ruyhan
Functional area	Add category and product
Test name	Adding product without category or empty fields.
Objective	The purpose of this test case is to verify that none of the fields remain empty when a user adding a product into system.
Pre-requisite	The application is running and displaying add category and add product option.
Steps to perform	1. Add product with empty fields or without category. 2. Click the insert product button.
Expected result	Error message is displayed indicating empty fields.
Test result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

5.2.4 Test case: Bidding for consumers

Test case ID	TC 004
Test case manager	ruyhan
Functional area	Bid
Test name	Bid with lower amount than the last bit amount or start bid amount.
Objective	The purpose of this test case is to verify that attend bid for the auction, bid amount should greater than the last bid amount or start bid amount.
Pre-requisite	The application is running and displaying bid products.
Steps to perform	1. Enter less amount than last bided amount or start bid amount. 2. Click the Bid Now button.
Expected result	Error message is displayed indicating amount should be greater than last bid amount or start bid amount.
Test result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Chapter 6

Conclusion

6. Conclusion

6.1 Good Features of the System

This system is necessary to control all private banks loan related auction in Bangladesh. This system will help private banks for held their all kind of bank related auctions through online so that they don't need to arrange auction program for held bid.

6.2 Limitations of the System

It's a PHP programming project, so when Banks will add there a lot of products for bid in this system, then system will go to few slow. Any user both customer and banks account can be blocked for any kind of violence.

6.3 Future Enhancements

In future there is a desire to trade this app and will be based online targeting all private banks of Bangladesh.

Appendices

7. User Manual

7.1 Bank Registration

[Home](#)
[Login](#)

Bank Registration

Bank Info

No file chosen

Choose Image

Create user account

[Agree & Signup](#)

Bank Auction

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About the Auction

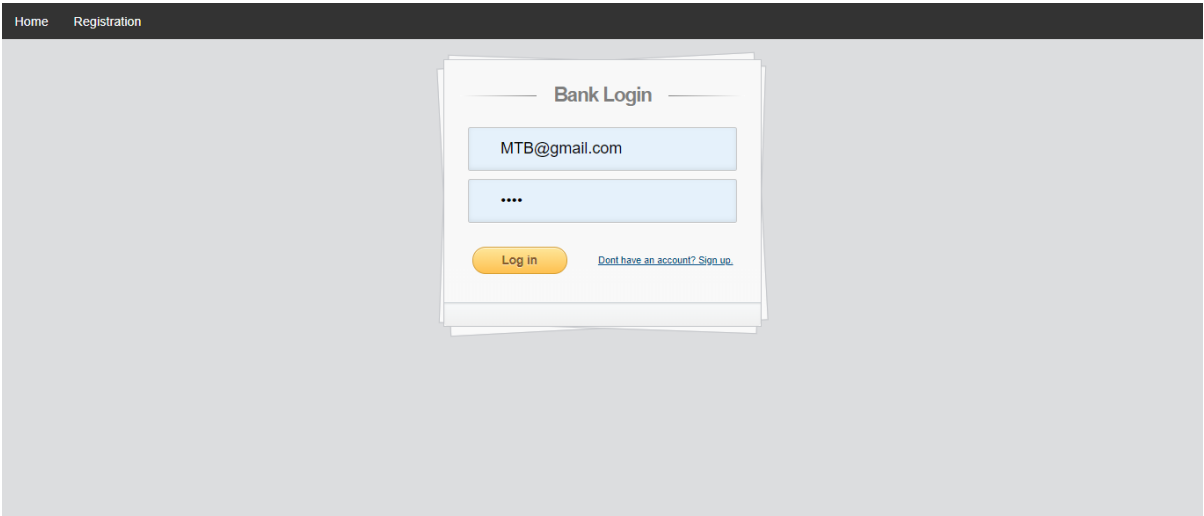
This is the best Bangladeshi first online auction platform in the country. We serve the best.

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[in](#)

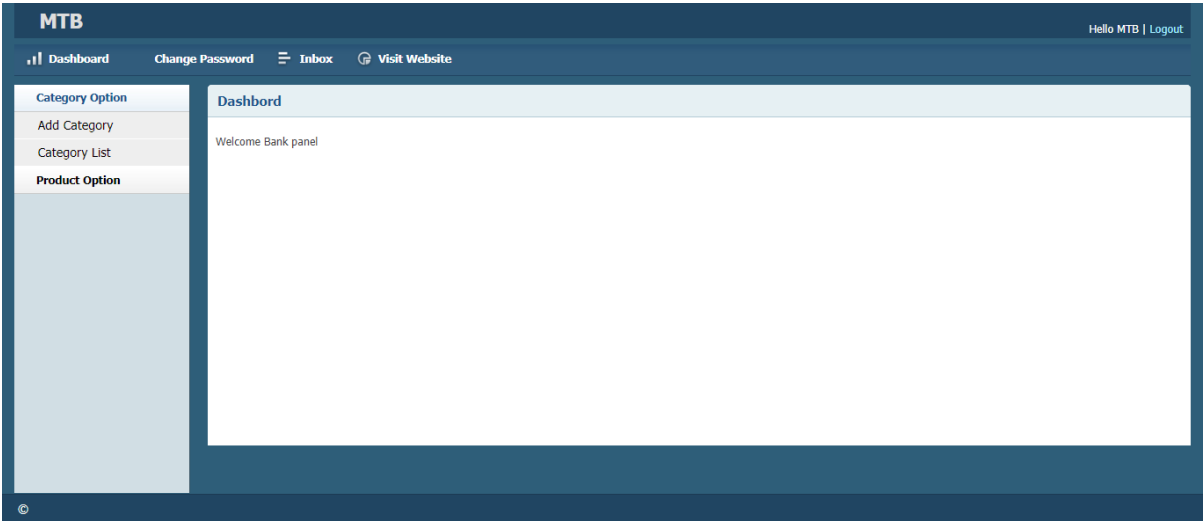
7.2 Account activation from ADMIN

Logout ▼				
Bank Name	Swift Code	Bank Email	Current Status	Change Status
DBBL	14321	DBBL@gmail.com	Active	Active ▼
MTB	98564	MTB@gmail.com	Active	Active ▼
IFIC	65234	IFIC@gmail.com	Active	Active ▼
CITY	12121	CT@gmail.com	Deactive	Deactive ▼
Agrani	1234	ag@gmail.com	Deactive	Deactive ▼

7.3 Bank Login



7.4 Bank Dashboard after login



7.5 Bank add Category

The screenshot shows the 'Add New Category' form in the MTB system. The form is titled 'Add New Category' and contains a success message: 'Category Inserted Successfully.' Below the message is a text input field labeled 'Enter Category Name...' and a 'Save' button. The left sidebar has 'Add Category' selected under the 'Category Option' section. The top navigation bar includes 'Dashboard', 'Change Password', 'Inbox', and 'Visit Website'. The user is logged in as 'Hello MTB'.

7.6 Bank category list

The screenshot shows the 'Category List' table in the MTB system. The table has three columns: 'Serial No.', 'Category Name', and 'Action'. It displays three categories: Electronics, SmartPhone, and Property. The left sidebar has 'Category List' selected under the 'Category Option' section. The top navigation bar includes 'Dashboard', 'Change Password', 'Inbox', and 'Visit Website'. The user is logged in as 'Hello MTB'.

Serial No.	Category Name	Action
1	Electronics	Edit Delete
2	SmartPhone	Edit Delete
3	Property	Edit Delete

Bank Auction System Documentation

7.7 Bank add products with category

[illegible]

7.8 Bank product list with edit and delete

MTB

Dashboard

Change Password

Inbox

Visit Website

Hello MTB | Logout

Category Option

Add Category



Category List

Product Option

Post List

Show 10 entries

Search:

SL	Product Name	Category	Description	Bid Start from	Publish Date	End Date&Time	Image	Action
1	Samsung Super 6 43 inch Ultra HD 4K LED Smart TV	Electronics	BDT43900	2020-04-06	2020-04-29 02:36:00.000000		Edit Delete
2	Seagate Plus Slim 2 TB External Hard Disk Drive	Electronics	BDT7999	2020-04-06	2020-04-30 02:38:00.000000		Edit Delete

Showing 1 to 2 of 2 entries

Bank Auction System Documentation

7.9 Bid list of Bank Products

MTB

Hello MTB | Logout

Dashboard

Change Password

Inbox

Visit Website

Category Option

Add Category

Category List

Product Option

Inbox

Show 10 entries

Search:

Serial No.	Product Name	User Name	User Email	User Phone	User District	Last Bid Amount
1	Samsung Super 6 43 inch Ultra HD 4K LED Smart TV	Farhana	faria@gmail.com	182345322	Noakhali	44001
2	Seagate Plus Slim 2 TB External Hard Disk Drive	Farhana	faria@gmail.com	182345322	Noakhali	8000

Showing 1 to 2 of 2 entries

7.10 Customer registration

Home

Login

Bank Auction Customer Registration

Personal Info

Enter Full Name

Select Gender

Select Religion

Enter Your Phone Number

Select District

Enter Zip-Code

Enter Your Address

Enter Your NID/PASSPORT Number

Select Occupation

Enter Your Annual Income

Bank Info

Select Bank

Select Branch

MTB@gmail.com

Enter Your Account Number

Note: This information is only for check your Bank balance statement

Create Password

Enter Email

....

Note: All information I provided in this form is true

Agree & Signup

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fb in

7.11 Customer login

[Home](#)[Bank Registration](#)

CUSTOMER LOGIN

EMAIL

PASSWORD

☐ Remember me [Dont have an account? Sign up.](#)

Login

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7.12 Main home page with products and bank list

[Home](#)[logout](#)

All Banks

Agrani


CITY

IFIC

MTB

DBBL

ALL BANK PRODUCTS




MTB Bank

Seagate Plus Slim 2 TB External Hard Disk Drive

Bid start from 7999 BDT/-

Details




MTB Bank

Samsung Super 6 43 inch Ultra HD 4K LED Smart TV

Bid start from 43900 BDT/-

Details




DBBL Bank

Apple iPhone 11 Black 128GB

Bid start from 69000 BDT/-

Details



DBBL Bank

Vivo Z1Pro 64GB 4GB

Bid start from 17999 BDT/-

Details

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Page 26

7.13 Specific one product with bank name, details and end time

[Home](#)
[logout](#)



THIS PRODUCT IS UNDER [DBBL] BANK

PRODUCT: Vivo Z1Pro 64GB 4GB

BID START FROM: 17999 BDT/-

CATEGORY: MOBILE

PUBLISHED ON: 2020-04-06

LAST BID AMOUNT WAS: 18999

THIS BID WILL END WITHIN
23d 8h 36m 32s

DETAILS

Specifications

General

In The Box: Handset, Earphone, Micro-USB to USB Cable, USB Power Adapter, SIM Ejector, Protective Case, Protective Film (Applied), Documentation

Model: Vivo 1951/PD1911F_EX

Number: Z1Pro

Color: Sonic Black

Browse: Smartphones

Type: Dual Sim

Hybrid Sim: No

Slot: Yes

Touchscreen: Yes

OTG: Yes

Compatible: Yes

Quick Charging: Yes

Display Features

Display Size: 16.59 cm (6.53 inch)

Resolution: 2340 x 1080 pixels

Resolution Type: FHD+

GPU: Adreno 616

Display Colors: 16.7M

Other Display Features: Bezel: 1.76mm, 90.77% Screen to Body Ratio

Os & Processor Features

Operating System: Android Pie 9

Processor Type: Qualcomm Snapdragon 712 AIE Octa Core 2.3GHz

Processor Core: Octa Core

Primary Clock Speed: 2.3 GHz

Memory & Storage Features

Internal Storage: 64 GB

RAM: 4 GB

Expandable Storage: 256 GB

Supported Memory Card Type: microSD

Memory Card Slot Type: Dedicated Slot

Camera Features

Primary: Yes

Camera: 16MP + 8MP + 2MP

Primary: Portrait Light Effects, Live Photo, Backlight HDR, Aperture: f1.78 (16MP) + f2.2 (8MP) + f2.4 (2MP), AR Stickers, Slow Motion, Primary Camera Sensor: Sony IMX499, Time Lapse Photography, AI Beauty, Fun Features: Video, AI Filter, Portrait Bokeh, AI Triple Rear Camera

Secondary: Yes

Camera: 32MP

Secondary: AI Filters, 32MP In-display Camera, AI Beauty, Fun Video, Portrait Light Effects, Live Photo, Aperture: f2.0, AR Stickers

Flash: Rear Flash and Front Screen Flash

HD: Yes

Recording: Full HD

Video: Yes

Recording: 1080p

Resolution: 60 fps

Rate: Dual Primary Camera

Camera: Lens

Connectivity Features

Network Type: 3G, 4G VOLTE, 4G, 2G

Supported Networks: 4G VoLTE, 4G LTE

3G: Yes

Pre-installed Browser: Vivo Browser, Google Chrome

Bluetooth Support: Yes

Bluetooth Version: 5

Wi-Fi: Yes

Wi-Fi Hotspot: Yes

USB Connectivity: Yes

Audio Jack: 3.5mm

Map Support: Google Maps

GPS Support: Yes

Other Details

Smartphone: Yes

Touchscreen: IPS In-cell (Capacitive Multi-touch Screen)

Type: Nano SIM

User: Funtouch OS 9.0

Interface: Removable

Battery: No

SMS: Yes

Graphics: 394 PPI

PPI: Dual Standby

Sensors: Fingerprint Sensor, Accelerometer, Ambient Light Sensor, Proximity Sensor, E-compass, Gyroscope

Other: Game Cube, Multi-turbo, Smart Split, Widevine L1 Support, USB Connectivity, USB 2.0, Ultra Game Mode, Operating Frequency: 64-bit, Dual 4G, Wi-Fi Type: WLAN 2.4G, WLAN 5.1G, WLAN 5.8G, WLAN Display, Eye Protection Mode, Material Handset: Plastic, 18W Fast Charging

GPS Type: GLONASS

Multimedia Features

Audio Formats: AAC/AMR/MIDI/OGG/FLAC/WMA/WAV/APE/MP3

Music Player: Yes

Video Formats: MP4/3GP/AVI

Battery & Power Features

Battery Capacity: 5000 mAh

Battery Type: Li-ion

Dimensions

Width: 77.33 mm

Height: 162.39 mm



Depth: 8.85 mm

Weight: 201 g

Warranty



Warranty Summary: Brand Warranty of 1 Year Available for Mobile and 6 Months for Accessories

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7.14 Bank inbox after customer bid a product.

The screenshot displays the 'DBBL' Bank Auction System interface. The top navigation bar includes 'Dashboard', 'Change Password', 'Inbox', and 'Visit Website'. The 'Inbox' section is active, showing a list of auction entries. The left sidebar contains 'Category Option' (Add Category, Category List) and 'Product Option'. The main content area shows a table with 2 entries, including details like Serial No., Product Name, User Name, User Email, User Phone, User District, and Last Bid Amount. A search bar and a 'Show 10 entries' dropdown are also present.

DBBL Hello DBBL | Logout

Dashboard Change Password Inbox Visit Website

Category Option
Add Category
Category List
Product Option

Inbox

Show 10 entries Search:

Serial No.	Product Name	User Name	User Email	User Phone	User District	Last Bid Amount
1	Vivo Z1Pro 64GB 4GB	ruyhan	ruyhanur@gmail.com	182345322	Dhaka	18999
2	Apple iPhone 11 Black 128GB	0	0	0	0	0

Showing 1 to 2 of 2 entries

8. References

1. YouTube.
2. W3school.com.
3. StackOverflow.com.