## A Project Work On Database System "BANK DATABASE SYSTEM"





#### Submitted To -

**Course name** - Database Management System

Course code - CO302

Course ins. – Sarat Saharia (Dept. of CSE)

SUBMITTED BY-Purbajit Das(CSB17075) Prakash Bhushal(CSB17071 Computer Science and Engineering Department

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### **INTRODUCTION:**

- Normally when we go to a bank to do anything, for example: Depositing cash, or withdrawal of cash etc. it takes time to by the servers to process the operation; requesting to get details of a
- customer. There may be many reasons for operations being slow

like:

- 1. Maybe the connectivity to the network is not strong.
- 2. May be database model is not efficient.
- Hence, in this project we will build a Bank Database which puts
- emphasis on efficiency. Hence, we will not make a website but
- put focus on efficient data retrieval; since in our course of,
- Database Management we try to do this by:
- Trying to reduce extra size created due to
- Redundancy by using concepts of normalization, functional dependencies.

#### 2.3) Project Specification:

**Project Category:** Web-Based Application.

Available Technologies: i3

• Languages : HTML, PHP, Boot Strap

• RDBMS: My SQL

• Web server : XAMPP server

• Development Platform : Sublime Text Editor

#### Tools Used:

• Editor used: XAMPP for My SQL, Sublime for PHP

• Operating System: Ubuntul8.04

#### Hardware Used:

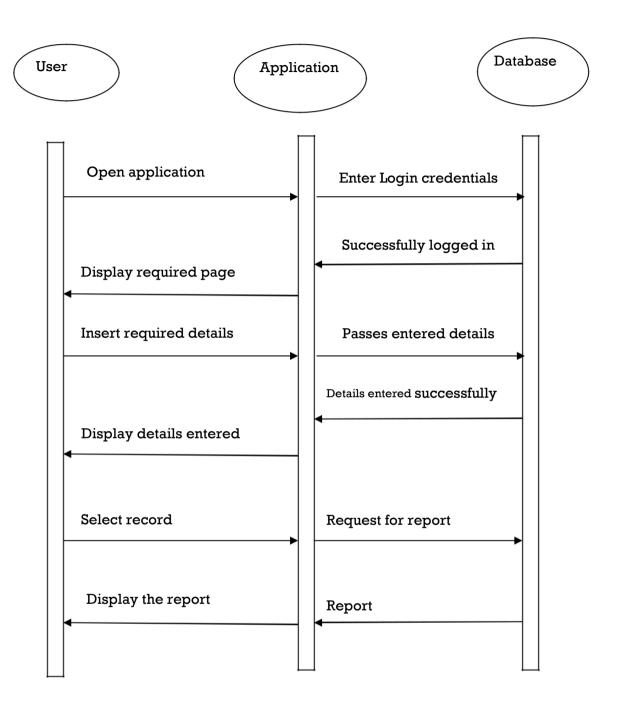
• Processor : Intel core

RAM: 8GB

Hard Disk: 1 TB

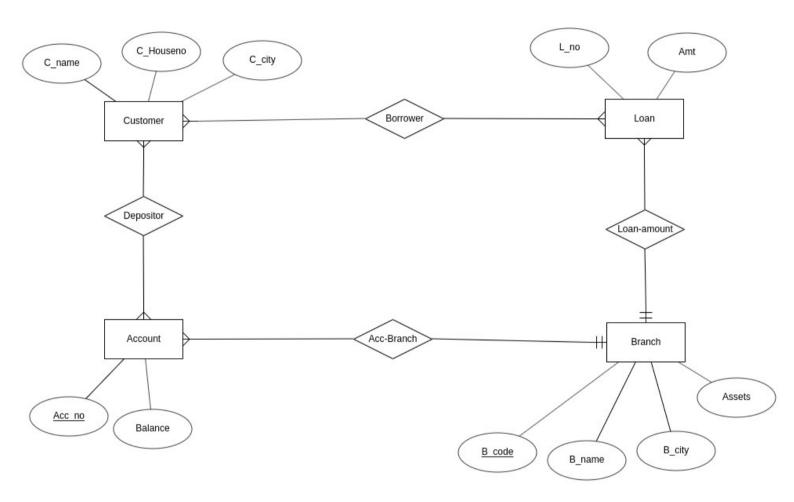


### 2.4) Sequence Diagram:





# Fig: ER DIAGRAM (Bank Database System)



## Summary:

- The Depositor relationship between Customer and
- Account if of m:n Cardinality, because a customer
- can have many accounts and also an Account can be a
- "Joined Account." Similarly, the Borrower relationship between
- Customer and Loan is that is of m:n Cardinality because a customer can borrow a couple of loans from the bank and also a loan can be borrowed by
- joined account.
- (\*) In the Acc-Branch relationship , the Account entity set
- has total participation
- In the Loan-amt relationship, Loan entity set has the
- total participation

# Functional Dependencies:

## 1.ACCOUNT

Accno B_name Balance
----------------------

## 2.BRANCH

B_code	B_name	B_city	Assets

## 3.CUSTOMER

C_id	C_name	Amt

## 4. LOAN

L_no	B_name	Amt

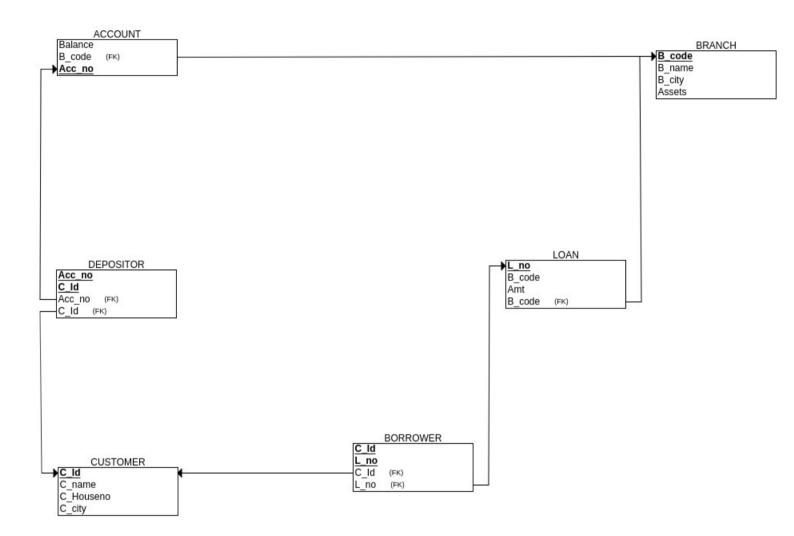
## 5. DEPOSITOR

C_Id	Acc_no

## 6.BORROWER

C_Id	L_no

# Relational Model:

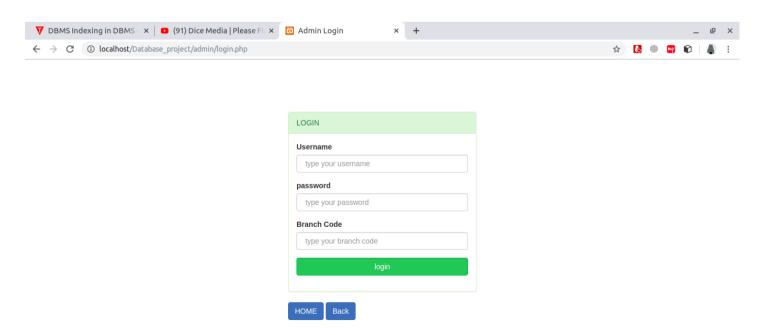


### **Online Portal:**

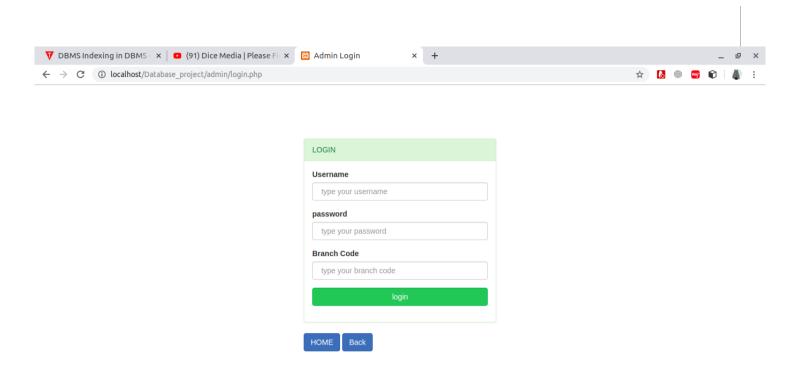
### 6.1) User Page:



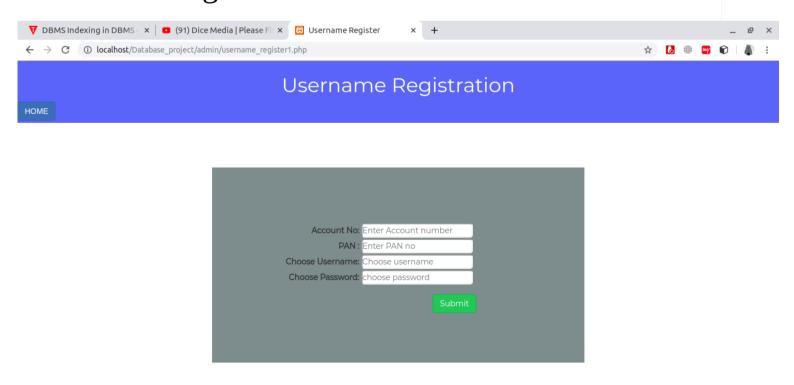
#### Login Page:



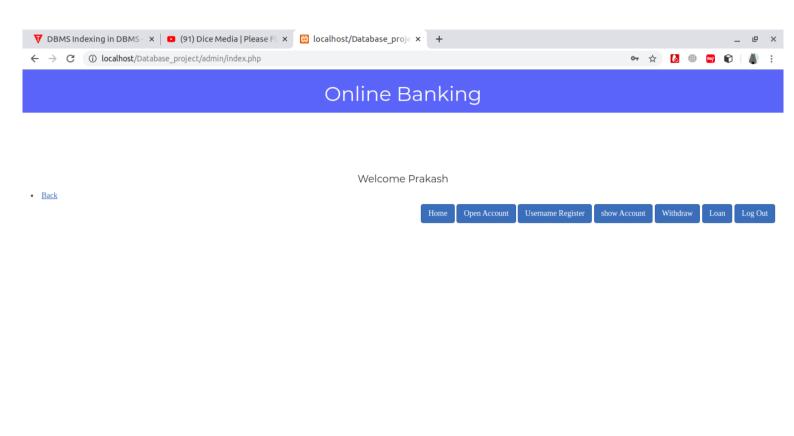
#### 1) Admin page:



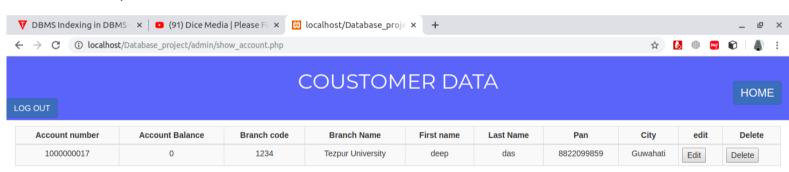
# User Registration:



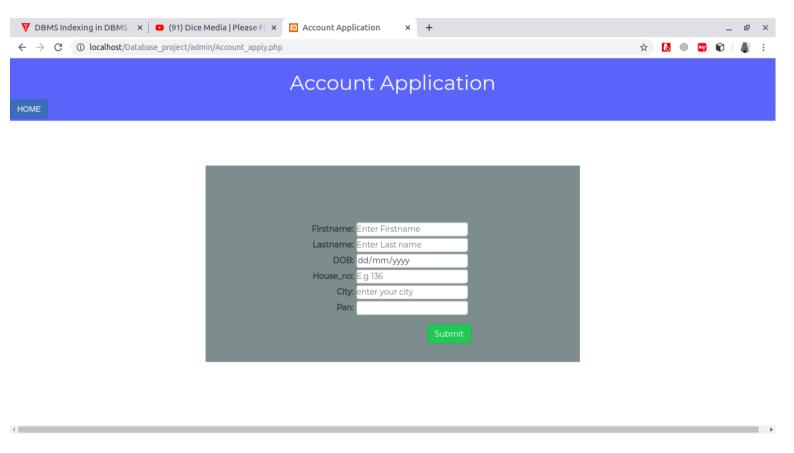
#### 1.2) Employee Section:



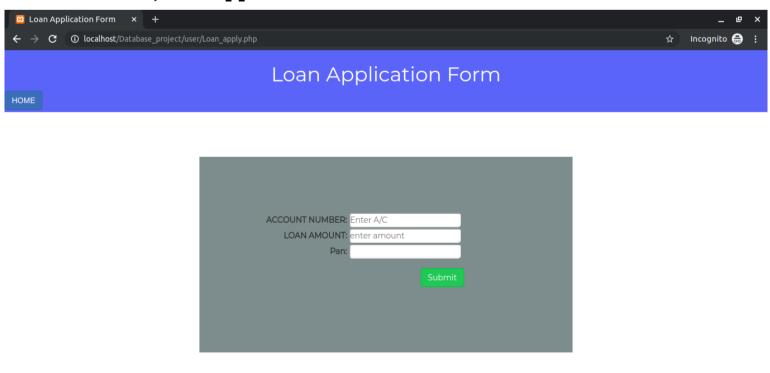
### 1.3) Customer info section:



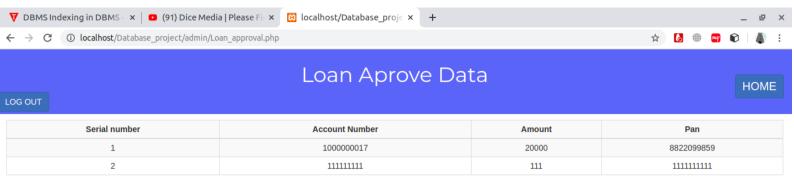
## 1.4)ACCOUNT OPENING section:



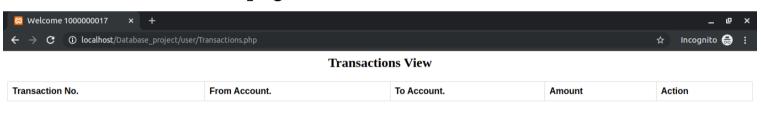
### 1.5)Loan application form section:



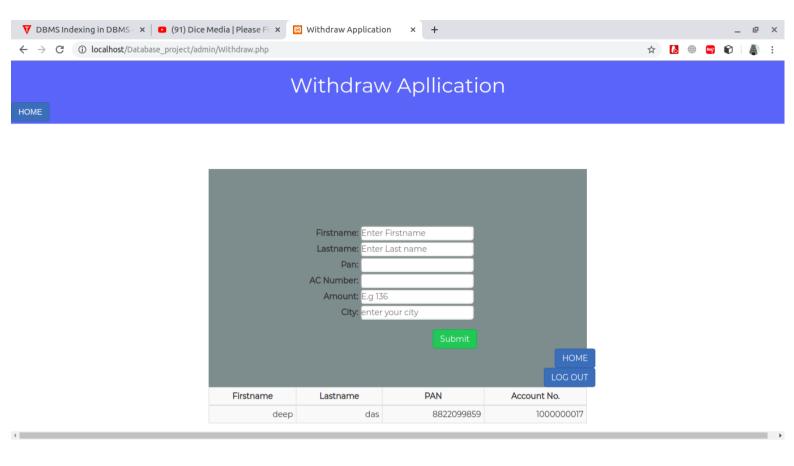
### 2) Loan Approval Page:



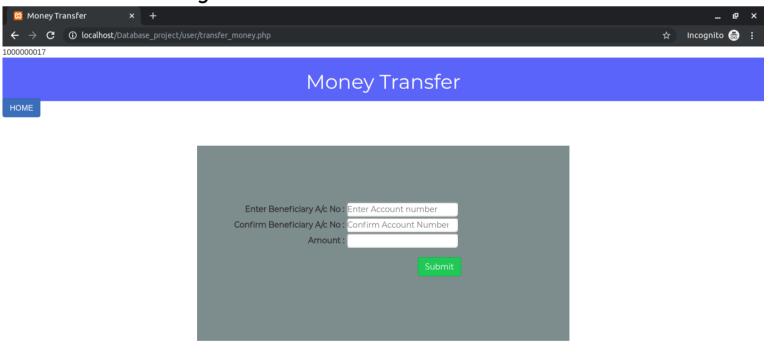
### Transaction View page:



#### Withdraw page:



### Transfer Page:



# Password change page:



#### PASSWORD CHANGE SECTION



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#### **Conclusion:**

This project is built for use in small scale organization, where the number of people enrolling in project is limited.

According to the requested requirement the admin can add, manipulate, update and delete all bank data in the organization. The admin can add new accounts and delete them. Required records can be easily viewed by the admin anytime, he wants in an instant. The main objective of this framework is to save time, make the system cost effective and management records efficiently.

## Bibliography:

#### Websites:

- http://www.w3schools.com
- http://www.tutorialspoint.com
- http://www.youtube.com