

**PROJECT REPORT
ON
BANK APP
PROJECT**

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CHAPTER 1

Introduction

This project is a web based banking application .The project objective is to take the bank manual process to an online application.This project can be used by the bank for the purpose of the internal communication.The bank is going to have its own interface through which it will be able to manage the customers of the bank.This banking application can be used for the purpose of the inhouse communication within a bank .The bankapp can be used for managing the employees of the bank ,adding and removing customer of the bank and for the purpose of withdraw ,deposit and transfer money from one account to another account.

CHAPTER 2

Objective

The bank is a major industry and still at some stage banks are doing some manual processes. So it's really good to automate some manual processes that can help bankers or customers. So this banking management system is a web application to manage bank activities. Where we can manage the customers, Transaction details.

There are two types of actors in the application. Manager, clerk.

Manager: Manager is the Admin of the application. He can perform the following activities

- The Admin can ADD/EDIT/UPDATE new customers of the bank.
- The Admin can ADD/EDIT/UPDATE new employee of the bank.
- The admin can see log details of transactions done by the customer/employee
- Admin will manage all the online payment logs.

Clerk: clerk can perform following actins

- clerk can change the address details of

customer on proper verification.

- clerk can do deposit and withdraw operation for customer, For transfer of more then 2 lac he need approval of manager.
- clerk can show transaction histroy of an customer and provide an printout of that.

CHAPTER 3

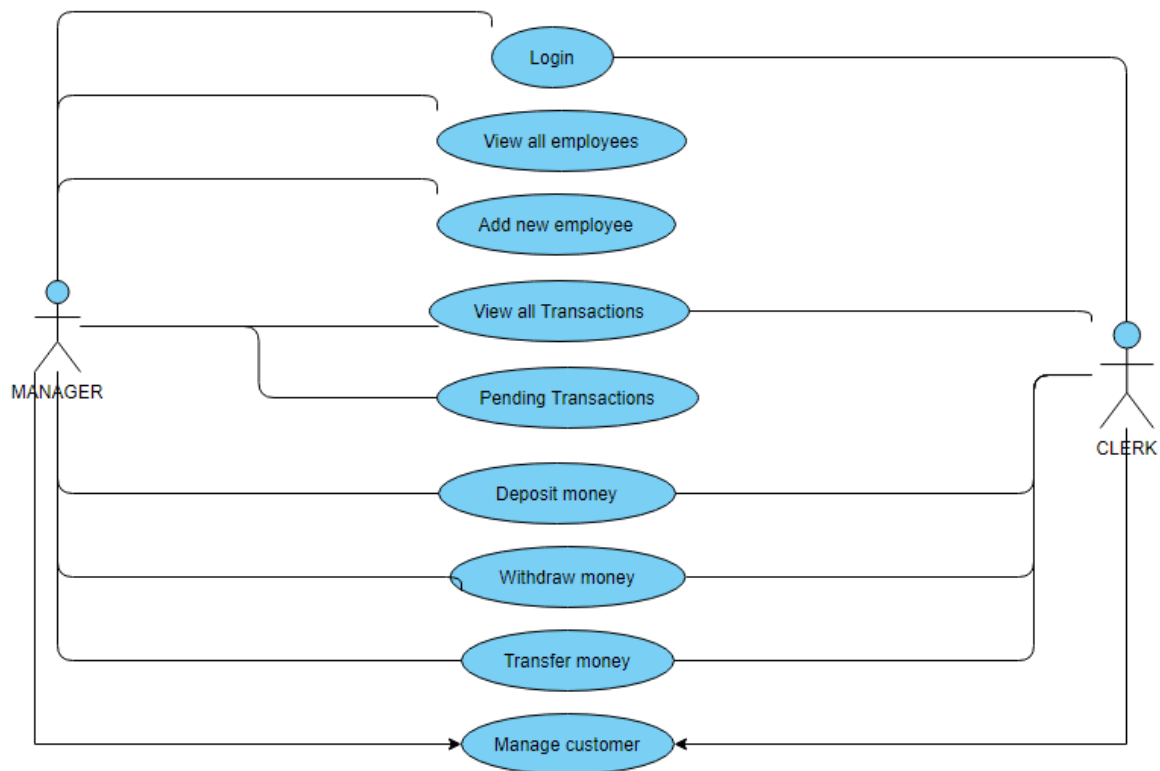
DESCRIPTION OF EXISTING SYSTEM

The existing system of the banking is manual in many banks till now. So, if we can move these manual processes to online then it can save a lot of the paperwork and also can save a lot of the time of the employees working in the bank and also managing the database is a little more easy than managing the paperwork.

CHAPTER 4

OOAD OF PROJECT

4.1 Use Case Diagram



Above shows the use case diagram of Bank application. It is a graphical depiction of clerk's and manager's possible interactions with a system. Here use case diagram describe the relationship between users and use cases. A use case is a user activity in the system.

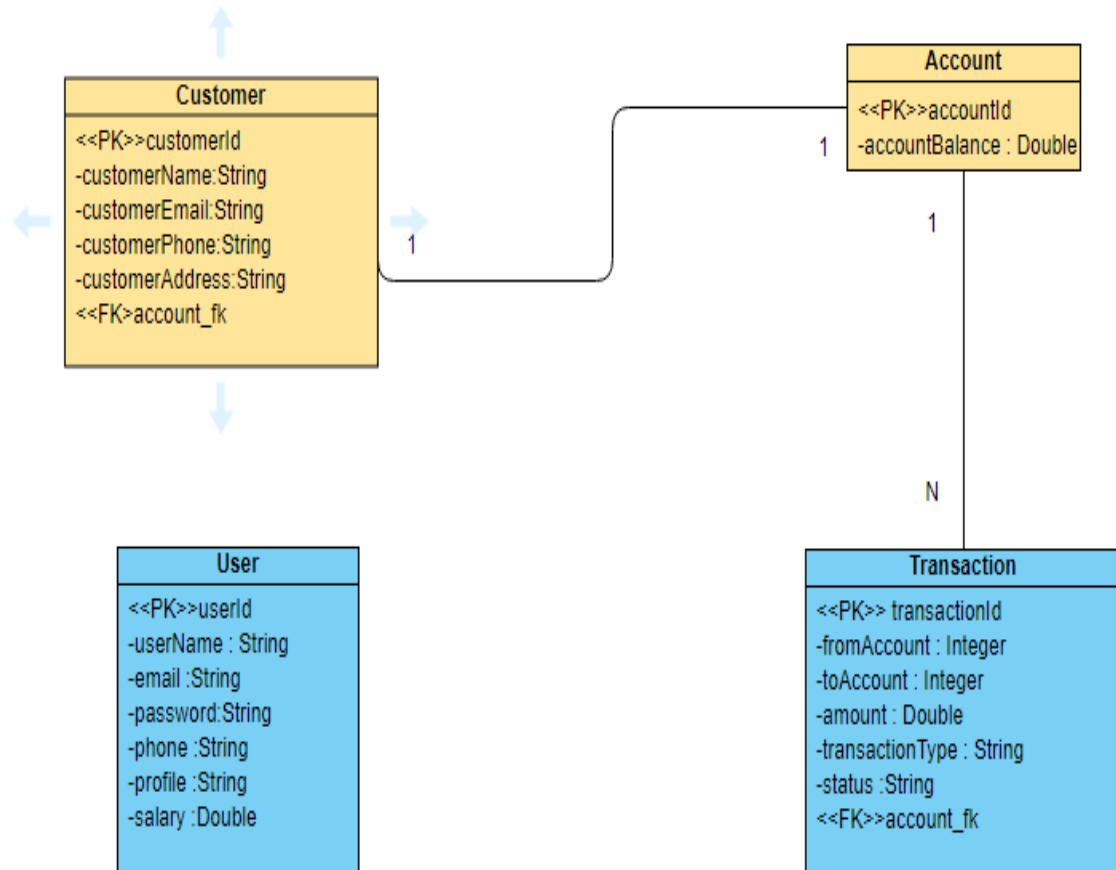
It consist of two components,

1 Actor : Actors are represented with a label naming actors role. There may be multiple actors in a diagram.

2 Use case : Represented as ellipse with a label inside, naming the use case.

There may be multiple use cases in a diagram. Actors represent the role that a user might play where each role is represented separately. Actor and Use case names must be unique with in a diagram. A use case describe the activity that is possible. It have several instances of activity throughout it's life time. In Bankapp application user need to login first before he/she could manage the customer transactions and add new customer or employee in the database.

4.2 ClassDiagram



CHAPTER 5

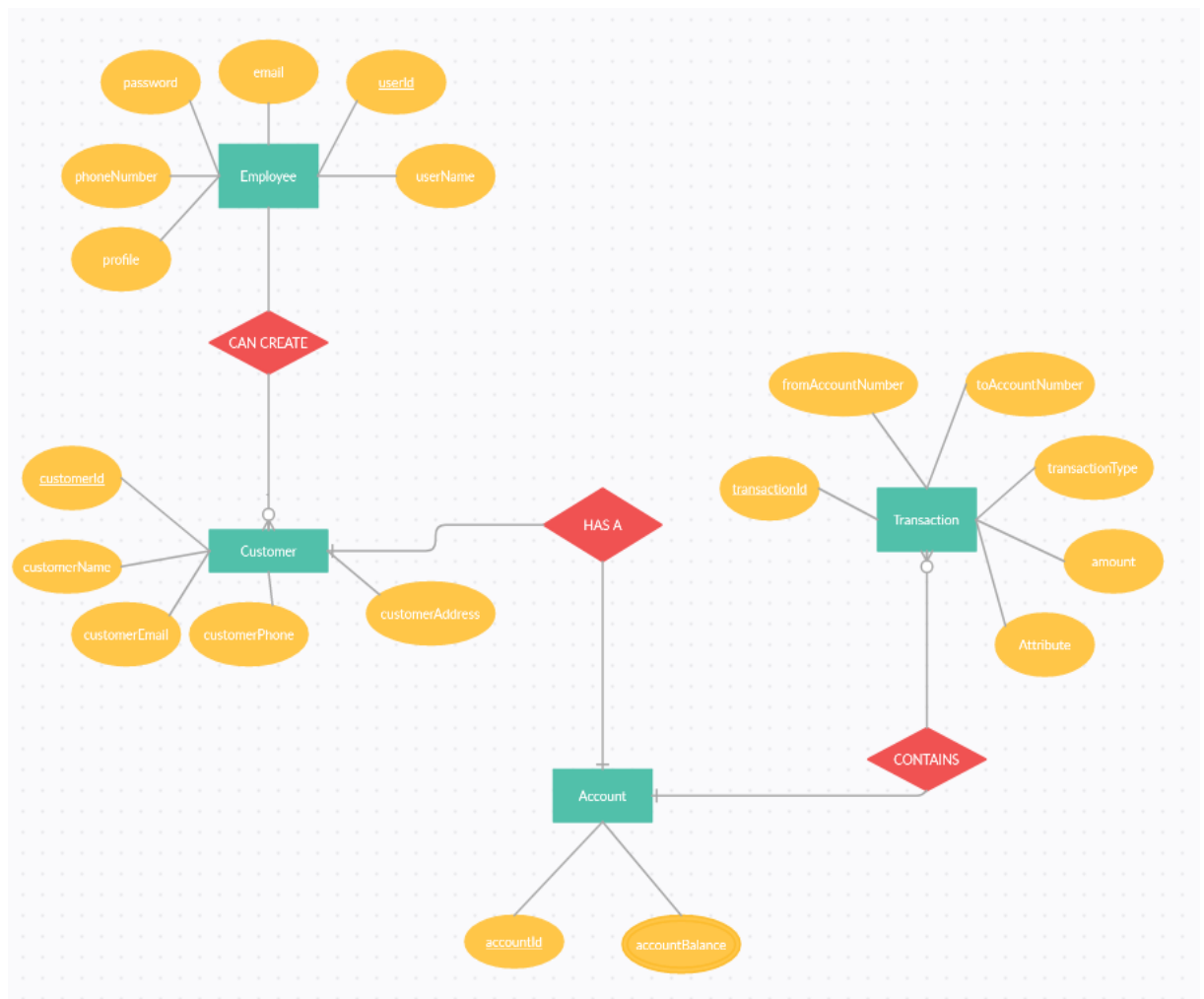
TECHNOLOGIES USED IN PROJECT

- ❑ Java 8
- ❑ Spring Boot
- ❑ Maven
- ❑ Spring Security
- ❑ Spring Data JPA
- ❑ Hibernate
- ❑ Bootstrap
- ❑ MySql-Database
- ❑ JSP

CHAPTER 6

DATABASE DESIGN OF PROJECT

6.1 ER Diagrams



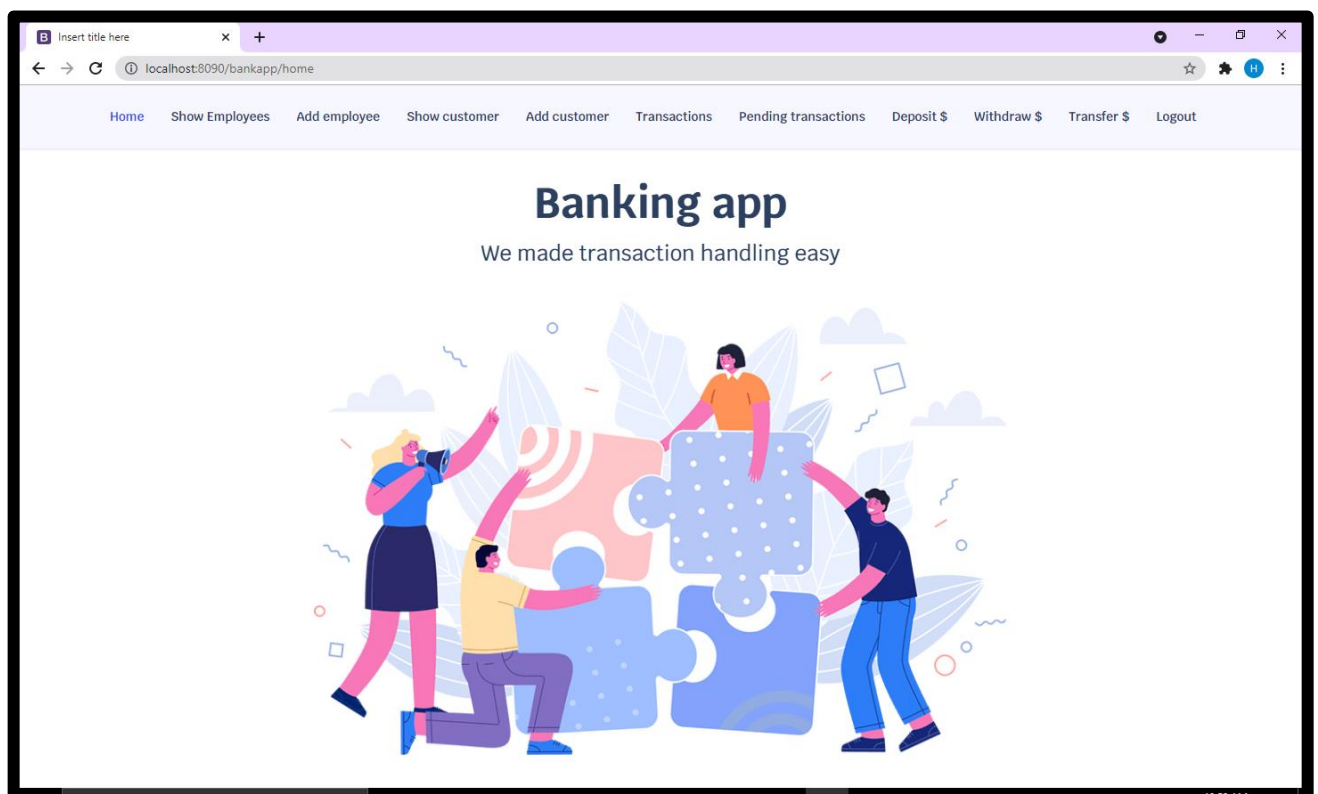
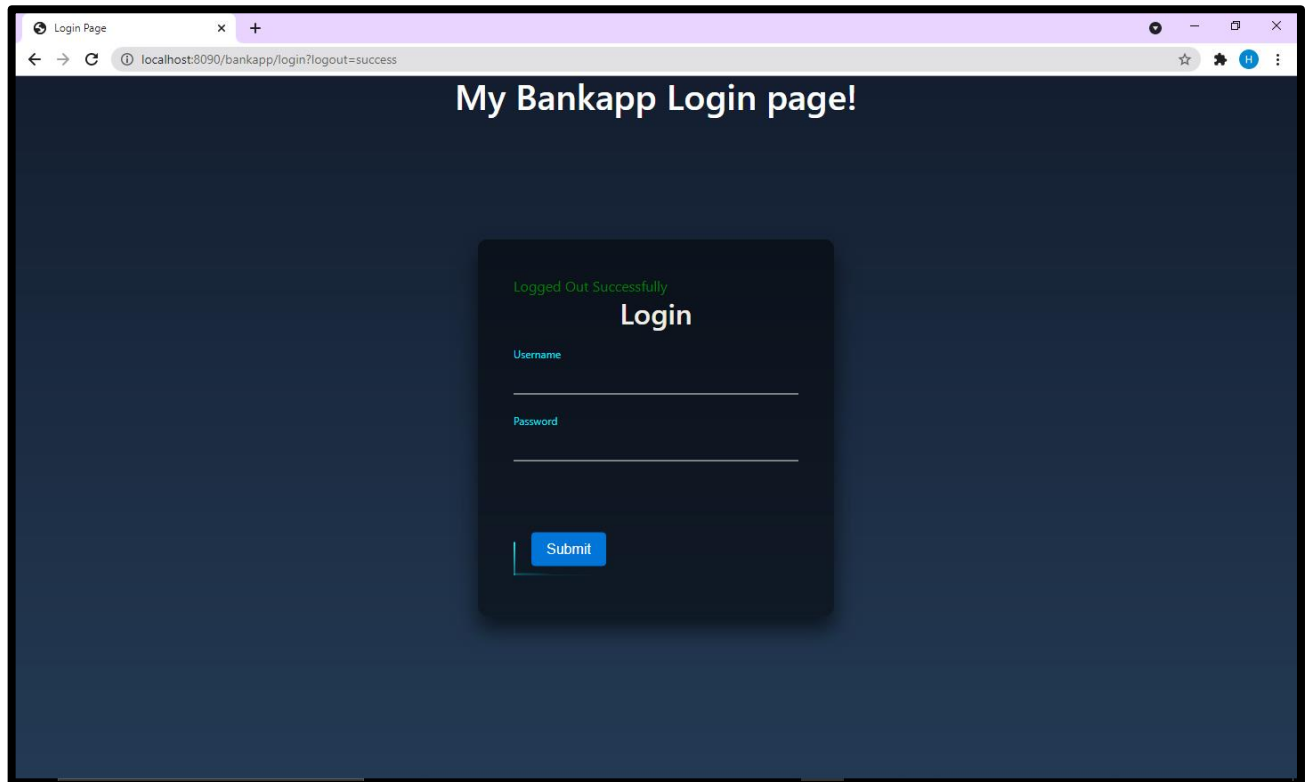
An entity relationship diagram (ERD), also known as an entity relationship model, is a graphical representation that depicts relationships among people, objects, places, concepts or events within an information technology system.

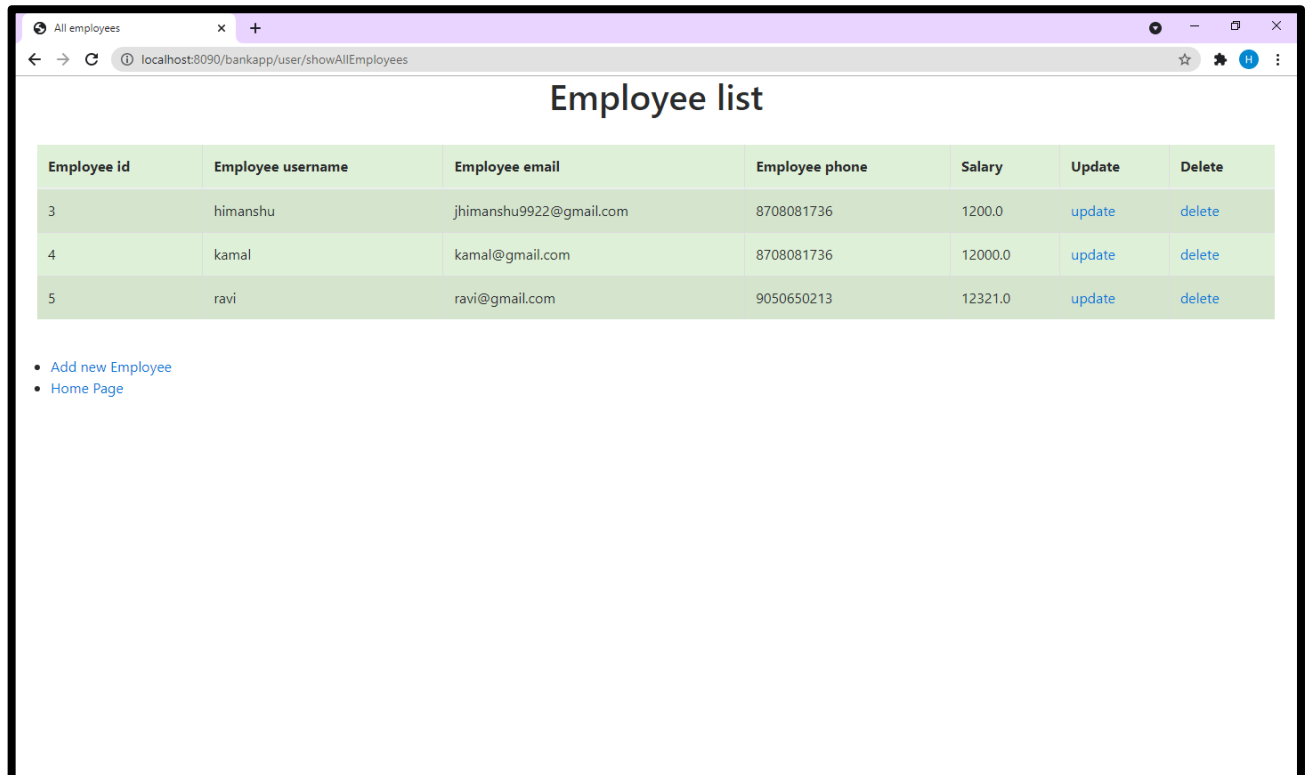
CHAPTER 7

SCOPE OF FUTURE RESEARCH

- **Adding Customer Module :** There is no option for a customer to login in the banking app .So we can provide him services through our portal and also we can provide option like email statement.
- **Adding Message support :** We can add message support when some account is credited debited or transferred from one account to another account for a customer.

Working Screenshots :





Add new Employee

Enter employee username

enter username of atleast 3 character long

Enter employee email

please provide email

Enter employee password

password must be atleast 5 character length

Enter employee phone number

enter valid 10 digit mobile number

Enter employee salary

enter salary of the employee

← → ↻ ⓘ localhost:8090/bankapp/transaction/showAllTransactions ☆ ⚙ H ⋮

Transaction List

Transaction Id	From account	To account	Amount	Transaction type	Status
1	1	self	200.0	WITHDRAW	SUCCESS
2	2	self	200.0	WITHDRAW	SUCCESS
3	3	self	400.0	WITHDRAW	SUCCESS
4	self	1	250.0	DEPOSIT	SUCCESS
5	1	2	120.0	TRANSFER	SUCCESS
6	self	1	800000.0	DEPOSIT	SUCCESS
7	1	2	200007.0	TRANSFER	SUCCESS
8	1	2	300000.0	TRANSFER	REJECTED
9	1	2	1.0	TRANSFER	SUCCESS
10	1	2	100.0	TRANSFER	SUCCESS
11	self	1	1.0	DEPOSIT	SUCCESS
12	self	1	200000.0	DEPOSIT	SUCCESS
13	self	1	200000.0	DEPOSIT	SUCCESS

← → ↻ ⓘ localhost:8090/bankapp/transaction/pendingTransaction ☆ ⚙ H ⋮

Pending Transactions

Transaction Id	From account	To account	Amount	Transaction type	Status	Approve	Reject
15	1	2	200000.0	TRANSFER	PENDING	approve	reject
16	1	2	200000.0	TRANSFER	PENDING	approve	reject

- Show all Transactions
- Home Page

Withdraw Money

localhost:8090/bankapp/transaction/withdrawMoney

Withdraw amount

Enter customer accountNumber

from account number cant be null

Enter withdraw amount

withdraw amount cant be null

Submit

Deposit money

localhost:8090/bankapp/transaction/depositMoney

Deposit money

Enter customer accountNumber

to account number cant be null

Enter deposit amount

deposit amount cant be null

Submit

Transfer amount

localhost:8090/bankapp/transaction/transferMoney

Transfer amount

Enter from AccountNumber

from account number cant be null

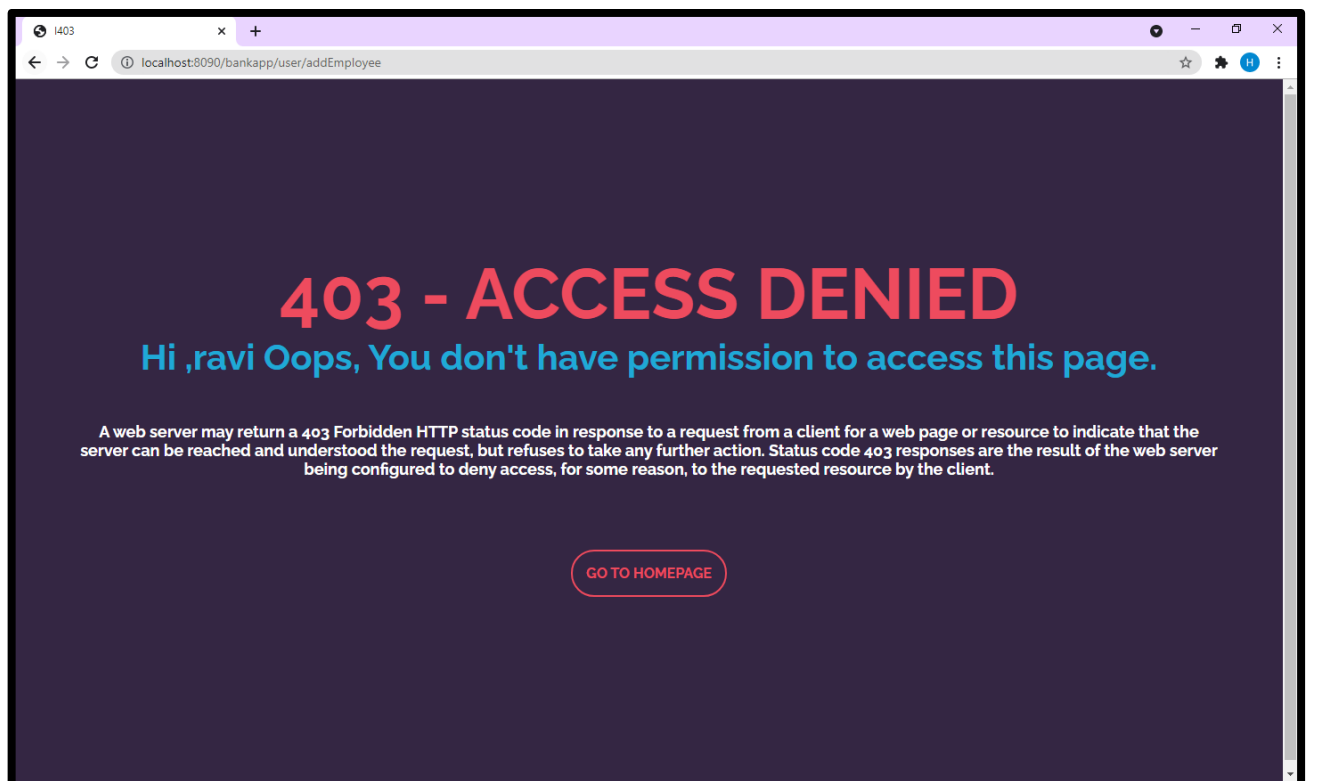
Enter to AccountNumber

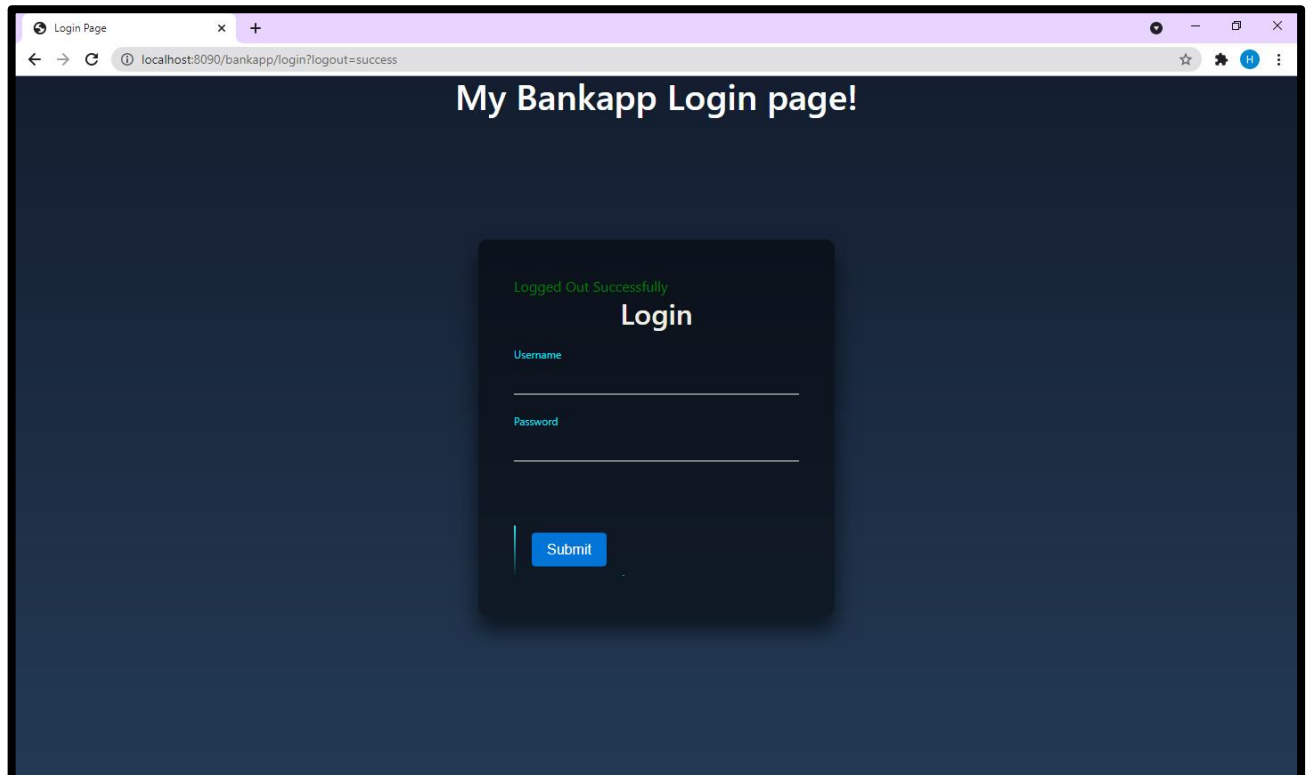
to account number cant be null

Enter transfer amount

amount cant be null

Submit





References :

- [Spring Boot Documentation](#)
- <https://www.javaguides.net/p/spring-boot-tutorial.html>
- <https://www.sivalabs.in/categories/microservices/>