

//StudentName -: Sandeep Sandeep

//Student Id -: 25461

//Student Email -: 25461@student.dorset-college.ie

A PDF report should be describe what you have done and the challenges you encountered and include screenshots of your application

Start With Console application

```
9      static void Main(string[] args)
10     {
11         ConsoleMenu.ShowOpeningMenu();
12     }
13 }
14
15 1 reference
16 static class ConsoleMenu
17 {
18     7 references
19     public static void ShowOpeningMenu()
20     {
21         Console.WriteLine("Welcome to the Bank Application!");
22         Console.WriteLine("Are you a Bank Employee or a Customer?");
23         string userType = Console.ReadLine();
24
25         if (userType.ToLower() == "bank employee")
26         {
27             BankEmployeeMenu();
28         }
29         else if (userType.ToLower() == "customer")
30         {
31             CustomerMenu();
32         }
33         else
34         {
35             Console.WriteLine("Invalid user type. Please try again.");
36             ShowOpeningMenu();
37         }
38     }
39 }
```

Start with menu

Customer or bank employee

```
File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Search OnlineBankApplication_Console Sign in
C:\Users\Dell\source\repos\O X + v
Welcome to the Bank Application!
Are you a Bank Employee or a Customer?
bank employee
Bank Employee Menu
1. Create Customer
2. Delete Customer
```

This is output of menu I m input bank employee

```
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private string customersFile = "customers.txt";

1 reference
public void CreateCustomer()
{
    Console.WriteLine("Enter first name:");
    string firstName = Console.ReadLine();
    Console.WriteLine("Enter last name:");
    string lastName = Console.ReadLine();
    Console.WriteLine("Enter email:");
    string email = Console.ReadLine();

    // Generate account number and PIN
    string accountNumber = GenerateAccountNumber(firstName, lastName);
    string pin = GeneratePIN(firstName, lastName);

    // Save customer to file
    using (StreamWriter writer = new StreamWriter(customersFile, true))
    {
        writer.WriteLine($"{firstName},{lastName},{email},{accountNumber},{pin}");
    }

    Console.WriteLine("Customer created successfully.");
    Console.WriteLine($"Account Number: {accountNumber}");
    Console.WriteLine($"PIN: {pin}");
}
```

this is a customer create code

```
File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Search OnlineBankApplic
C:\Users\Dell\source\repos\O X + v

Welcome to the Bank Application!
Are you a Bank Employee or a Customer?
bank employee
Bank Employee Menu
1. Create Customer
2. Delete Customer
1
Enter first name:
Sandeep
Enter last name:
Sandeep
Enter email:
Sandy@gmail.com
Customer created successfully.
Account Number: SS-14-19-19
PIN: 77
Press any key to return to main menu...
|
```

Firstname lastname or email can create customer detail via firstname or lastname create accountNumber

```

1 reference
private string GenerateAccountNumber(string firstName, string lastName)
{
    // Generate account number based on provided rules
    string initials = $"{firstName.Substring(0, 1)}{lastName.Substring(0, 1)}";
    int length = firstName.Length + lastName.Length;
    int firstInitialPosition = Char.ToUpper(firstName[0]) - 'A' + 1;
    int secondInitialPosition = Char.ToUpper(lastName[0]) - 'A' + 1;

    return $"{initials}-{length}-{firstInitialPosition}-{secondInitialPosition}";
}

1 reference
private string GeneratePIN(string firstName, string lastName)
{
    // Generate PIN based on provided rules
    return $"{firstName.Length}{lastName.Length}";
}

```

this is a code of create account or pin for login

In this project requirement is Console base application maintain customer data in text file so I m maintain the text file

```

// Generate account number and PIN
string accountNumber = GenerateAccountNumber(firstName, lastName);
string pin = GeneratePIN(firstName, lastName);

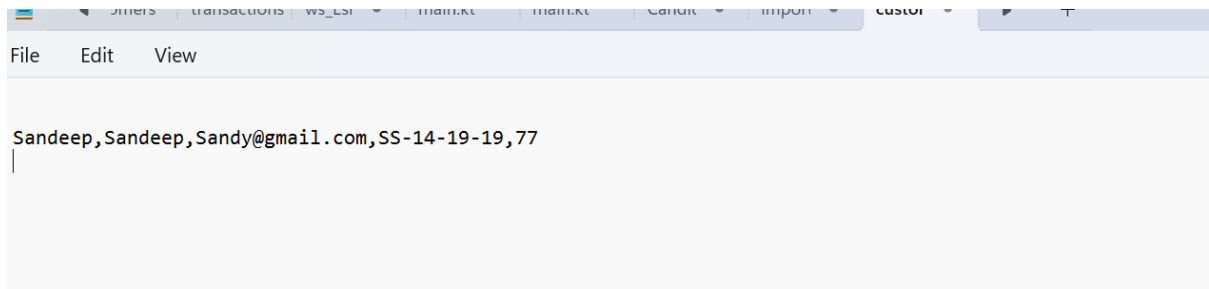
// Save customer to file
using (StreamWriter writer = new StreamWriter(customersFile, true))
{
    writer.WriteLine($"{firstName},{lastName},{email},{accountNumber},{pin}");
}

```

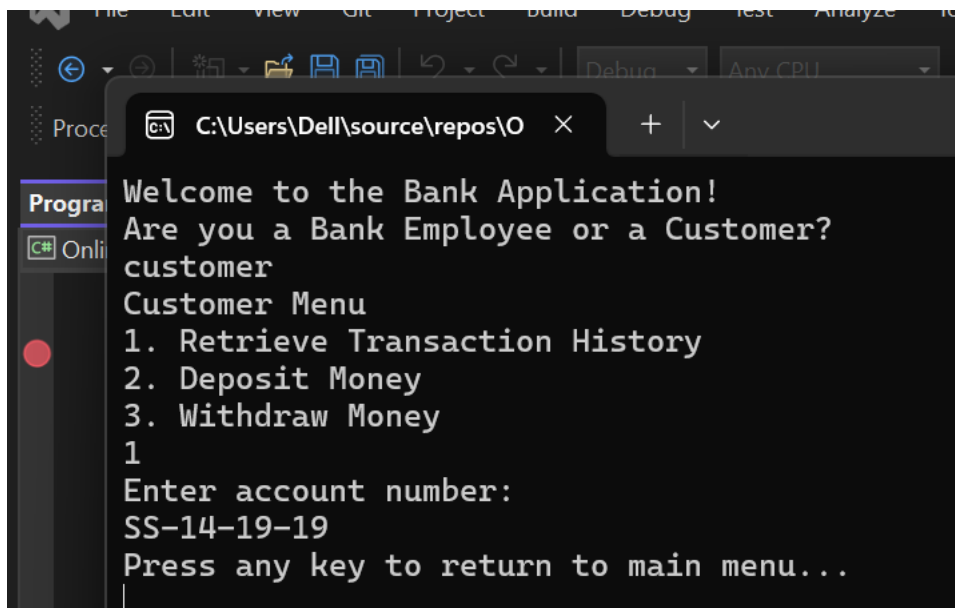
this is code for save customer information in customerfile

customers	28-03-2024 03:31 PM	Text Document	1 KB
OnlineBankApplication_Console	09-03-2024 12:29 PM	Application	10 KB
OnlineBankApplication_Console.exe.config	09-03-2024 10:48 AM	VisualStudio.config.1...	1 KB
OnlineBankApplication_Console.pdb	09-03-2024 12:29 PM	Program Debug Data...	30 KB
transactions	27-03-2024 12:05 PM	Text Document	1 KB

this is my file explore where Customer.txt store in myproject bin file

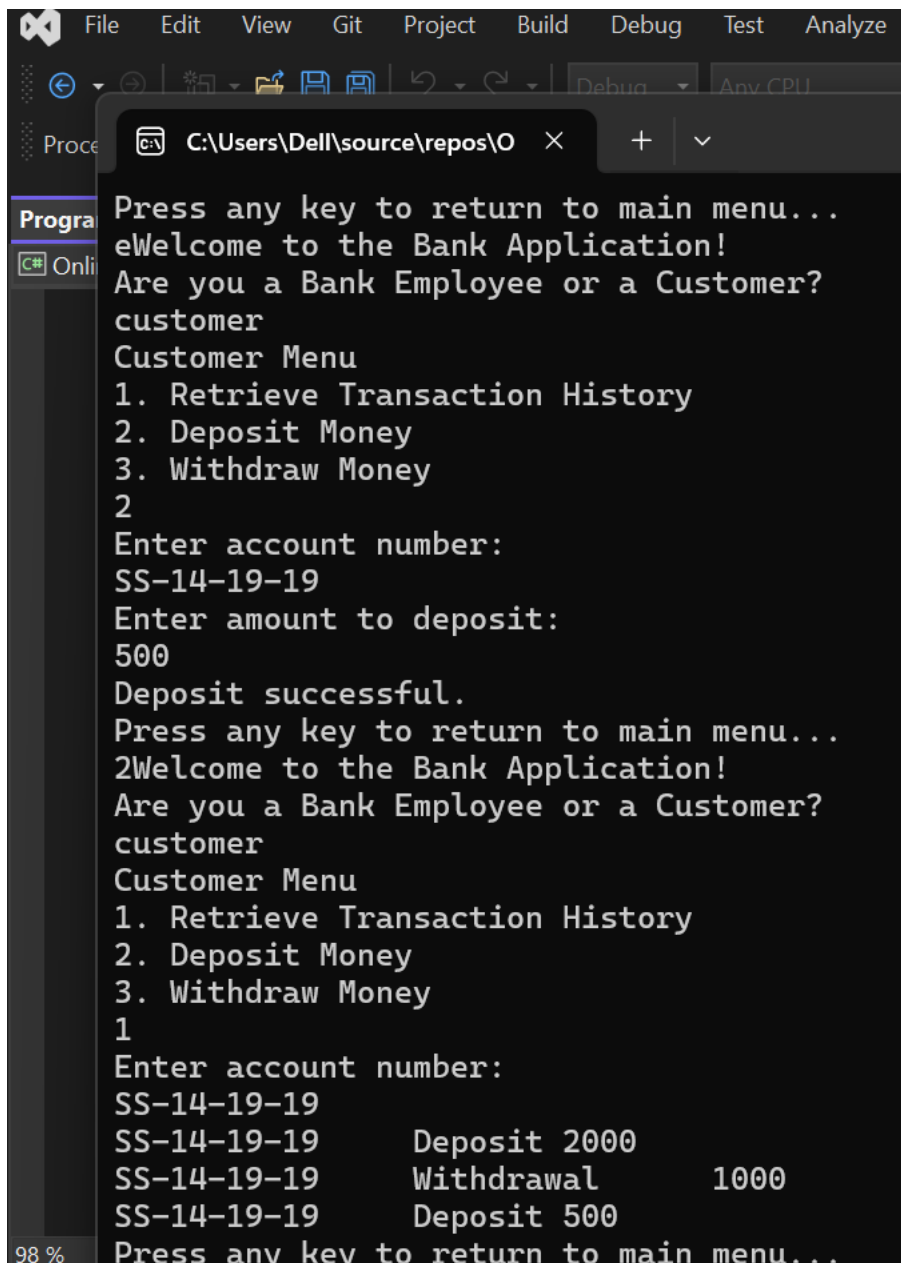


this is customer information



I m push second menu of customer

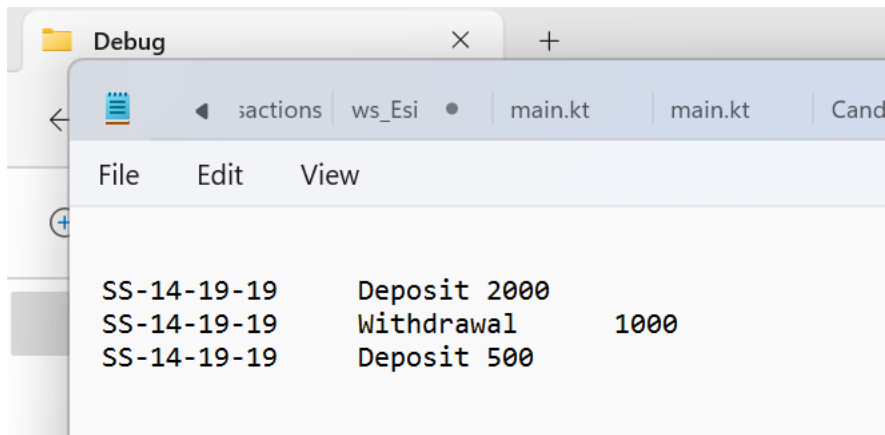
I m trying to Retrieve Transaction history for option 1



```
File Edit View Git Project Build Debug Test Analyze
C:\Users\Dell\source\repos\O
Press any key to return to main menu...
Welcome to the Bank Application!
Are you a Bank Employee or a Customer?
customer
Customer Menu
1. Retrieve Transaction History
2. Deposit Money
3. Withdraw Money
2
Enter account number:
SS-14-19-19
Enter amount to deposit:
500
Deposit successful.
Press any key to return to main menu...
2Welcome to the Bank Application!
Are you a Bank Employee or a Customer?
customer
Customer Menu
1. Retrieve Transaction History
2. Deposit Money
3. Withdraw Money
1
Enter account number:
SS-14-19-19
SS-14-19-19 Deposit 2000
SS-14-19-19 Withdrawal 1000
SS-14-19-19 Deposit 500
Press any key to return to main menu...
```

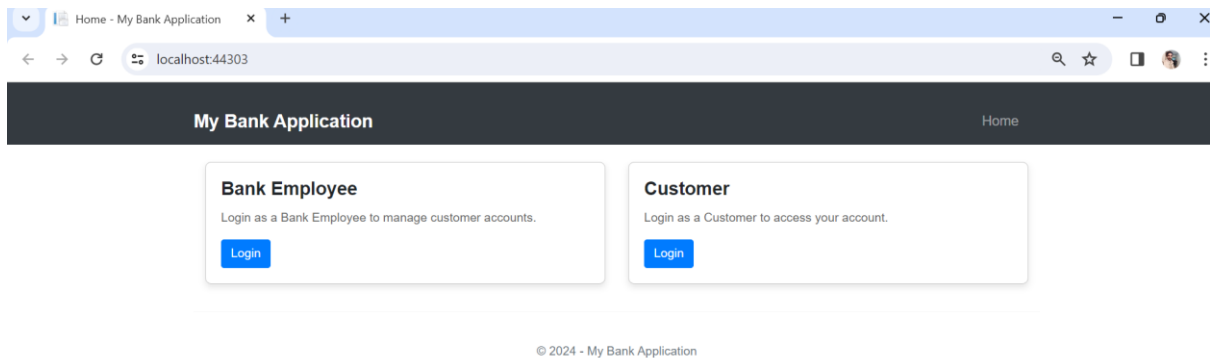
this is complete process where customer deposite its amount in bank withdraw money or show transition history

This data store in transition.txt file in project bin file



This is Complete console application

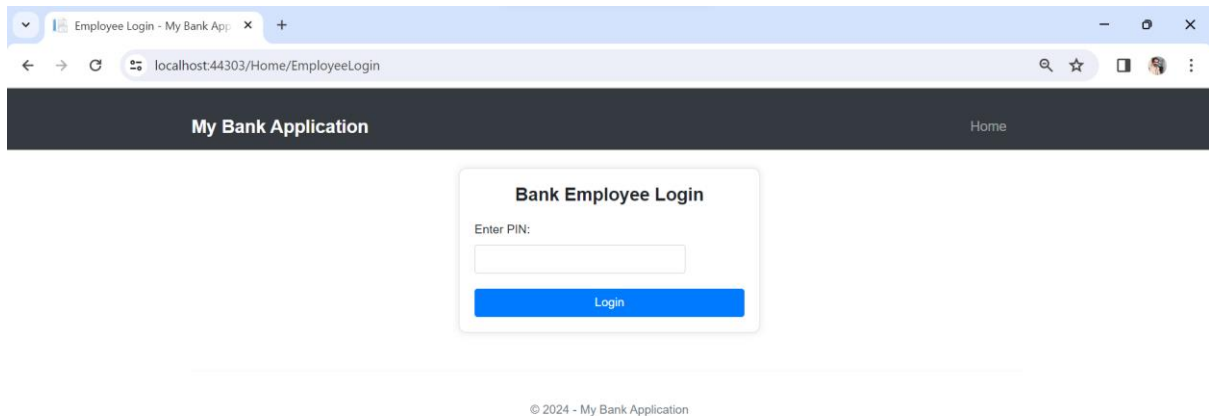
Start with Banking Application Web Application



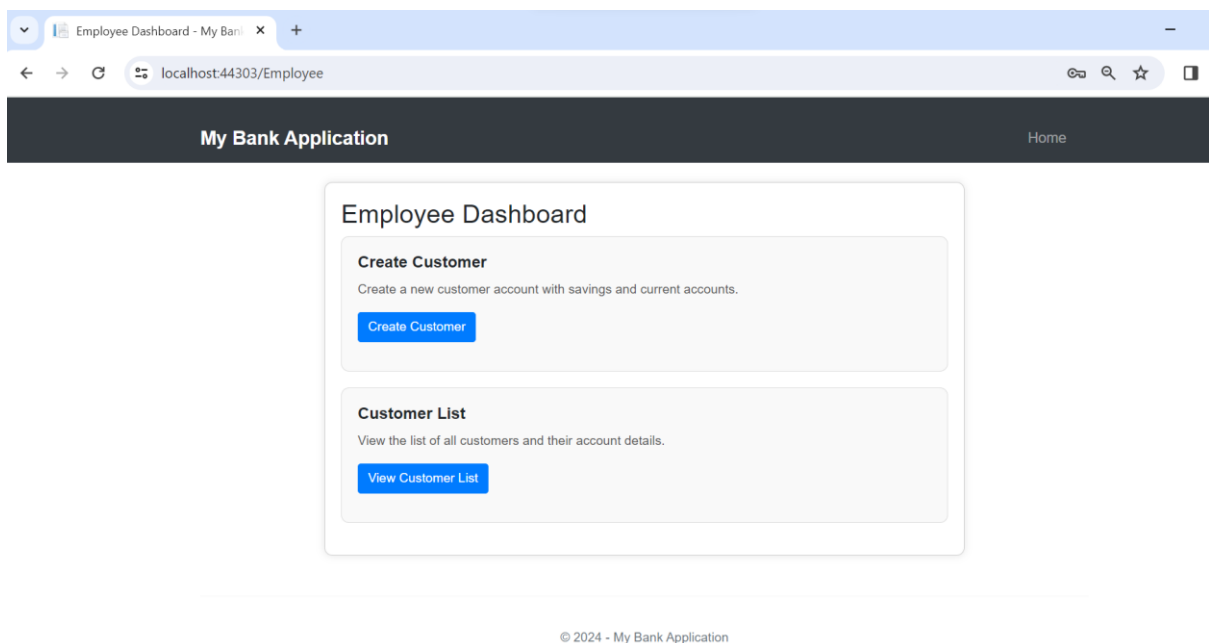
start with 2 menu button first is bank employee or second is Customer

if user are bank employee then it rights to create customer show customer list or delete any customer or account

bank employee login with A1234 password



this is login process of bank employee
use Password A1234 which are mention in brief and software requirement



After login employee show employee dashboard where two option show first is Create customer or second is Customer list

Create Customer - My Bank App

localhost:44303/Employee/CreateCustomer

My Bank Application

Home

Create Customer

FirstName

LastName

Email

PIN

Create

© 2024 - My Bank Application

if User click on create customer button then it will show this type of screen where employee must be fill required filed like firstname lastname email or pin in accountnumber generate are same process which was use in console application

Customer List - My Bank Applic

localhost:44303/Employee/CustomerList

My Bank Application

Home

Customer List

Name	Email	Account Numbers	Action
Sandeep Sandeep	Sandeep@gmail.com	SS-c5c5-Savings-20240328161015 SS-9400-Current-20240328161016	Delete

Back to Dashboard

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I m create my account using employee

created both account saving and current


```

select * from Customers
select * from Accounts
select * from Transactions

```

113 %

Results Messages

	Id	FirstName	LastName	Email	PIN
1	1018	Sandeep	Sandeep	Sandeep@gmail.com	1994

	Id	CustomerId	Type	Balance	AccountNumber
1	11	1018	Savings	0.00	SS-c5c5-Savings-20240328161015
2	12	1018	Current	0.00	SS-9400-Current-20240328161016

TransactionId	CustomerId	AccountNumber	Action	Amount	TransactionDate
---------------	------------	---------------	--------	--------	-----------------

this three table work for complete application u can see database table have maintain data which was requirement in brief webapplication maintain data in database

Customer Login - My Bank App

localhost:44303/Home/CustomerLogin

Home

My Bank Application

Customer Login

First Name:

Sandeep

Last Name:

Sandeep

Account Number:

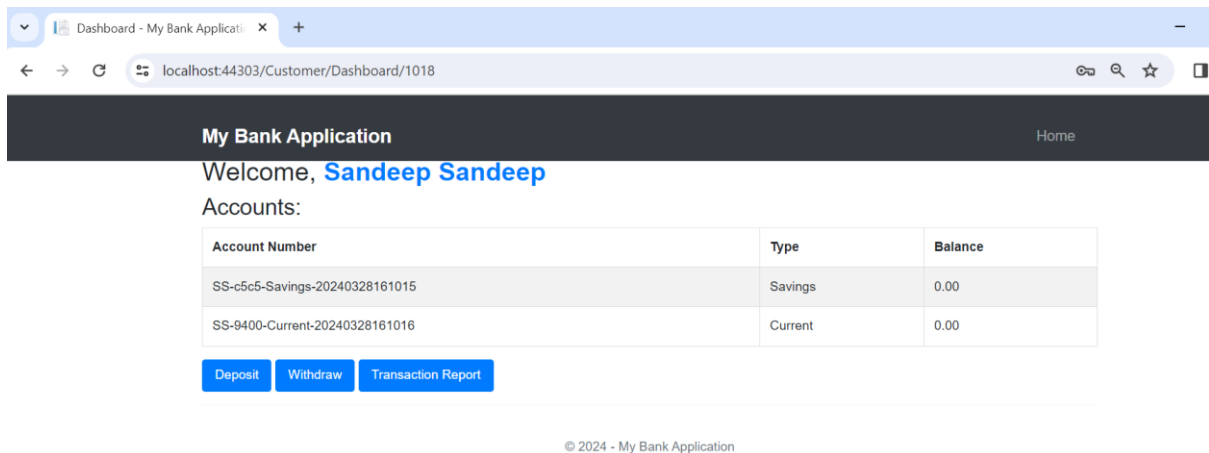
SS-c5c5-Savings-20240328161015

PIN:

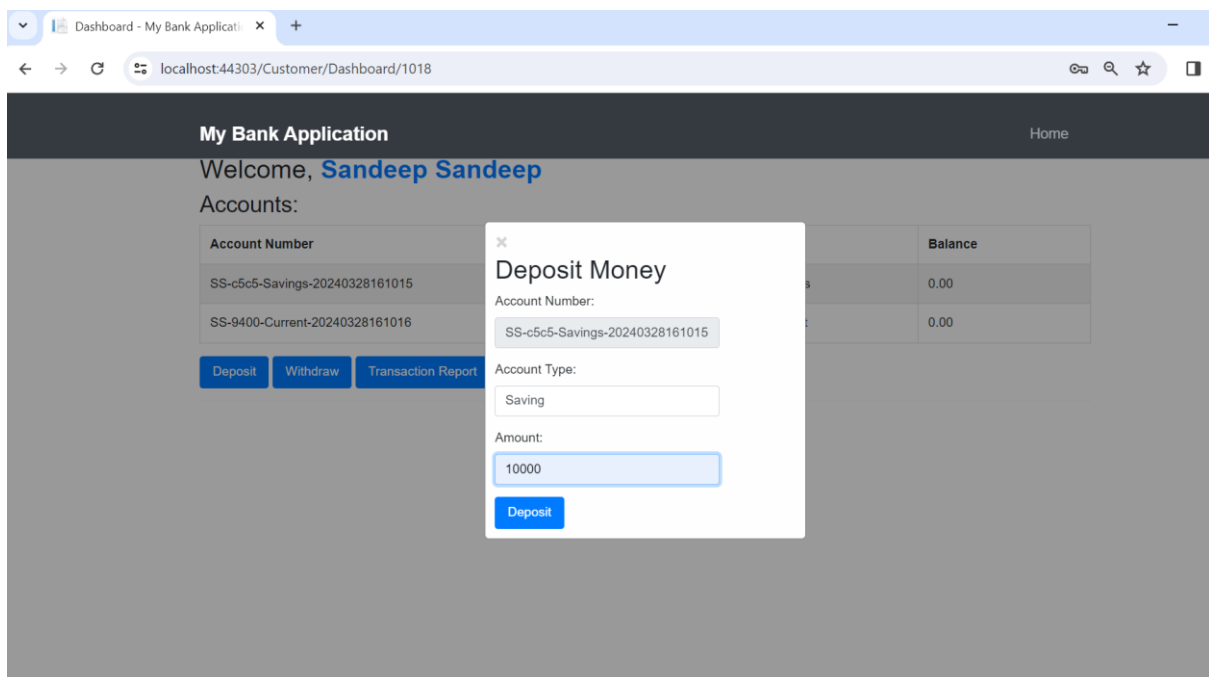
Login

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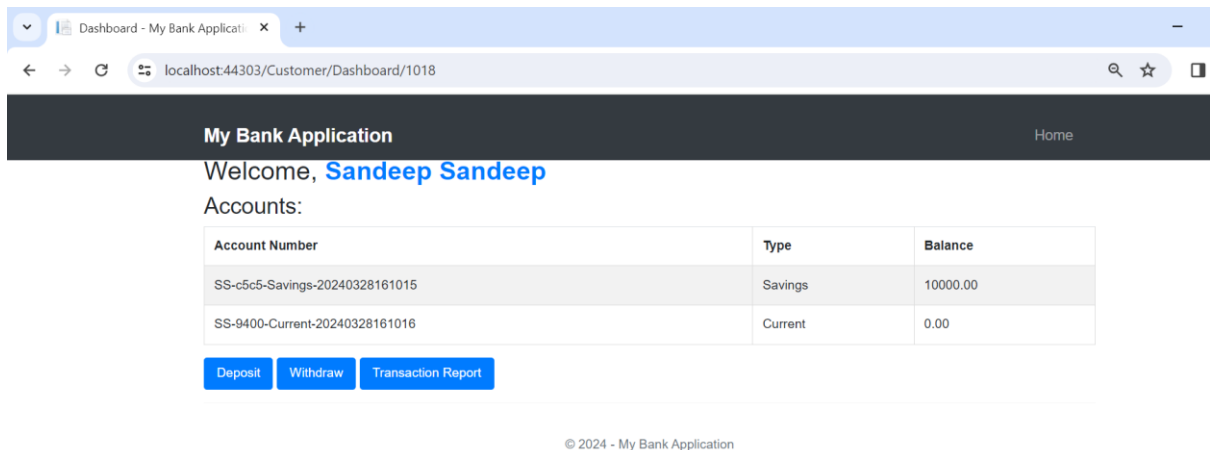
after created customer Customer have login its account



this is Customer Dashboard where customer show multiple button like deposit withdraw or transition history or account balance

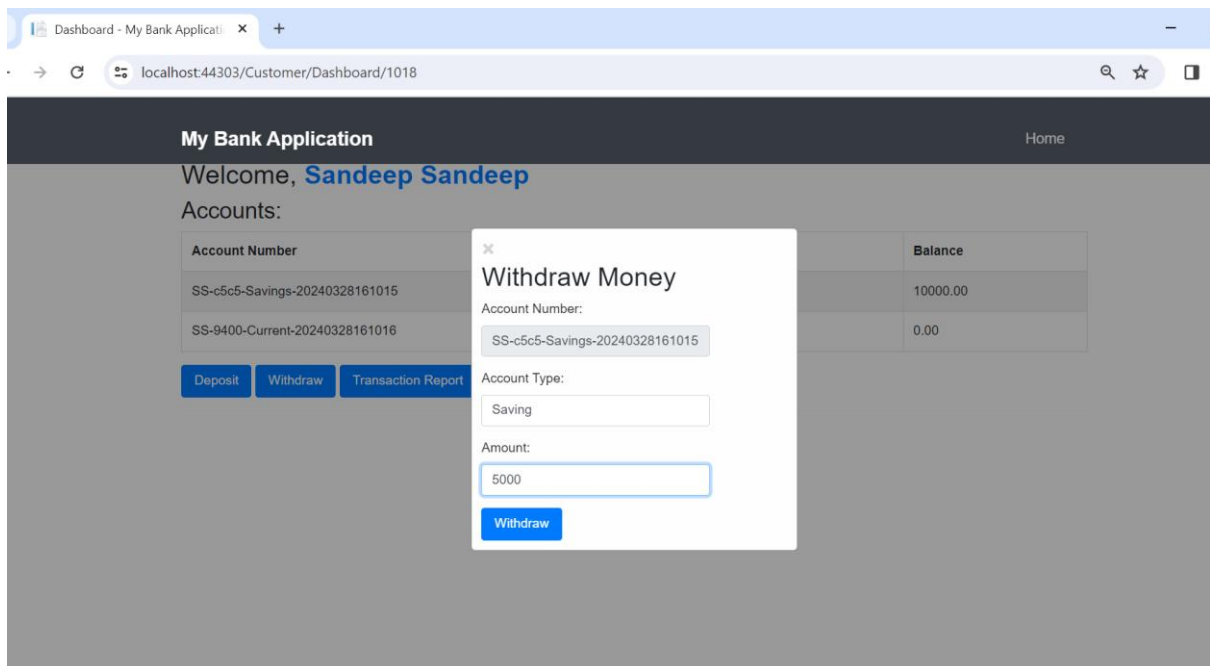


Start with deposit in saving account when customer press deposit button a popup show with account number or type of account then customer can fill amount in text box then it money transfer and save its account

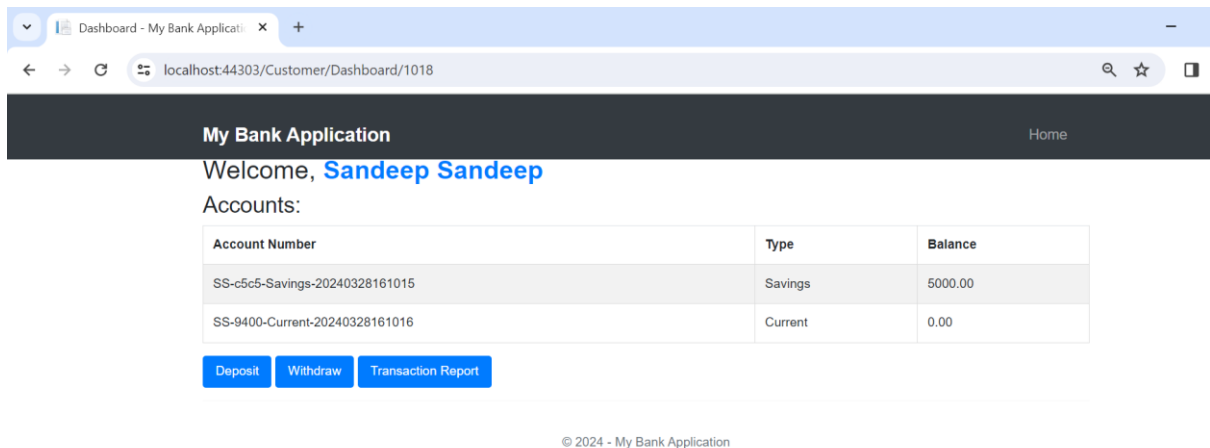


I m create 10000 in saving account and it was show in saving account

after deposite I m withdraw some amount in saving account

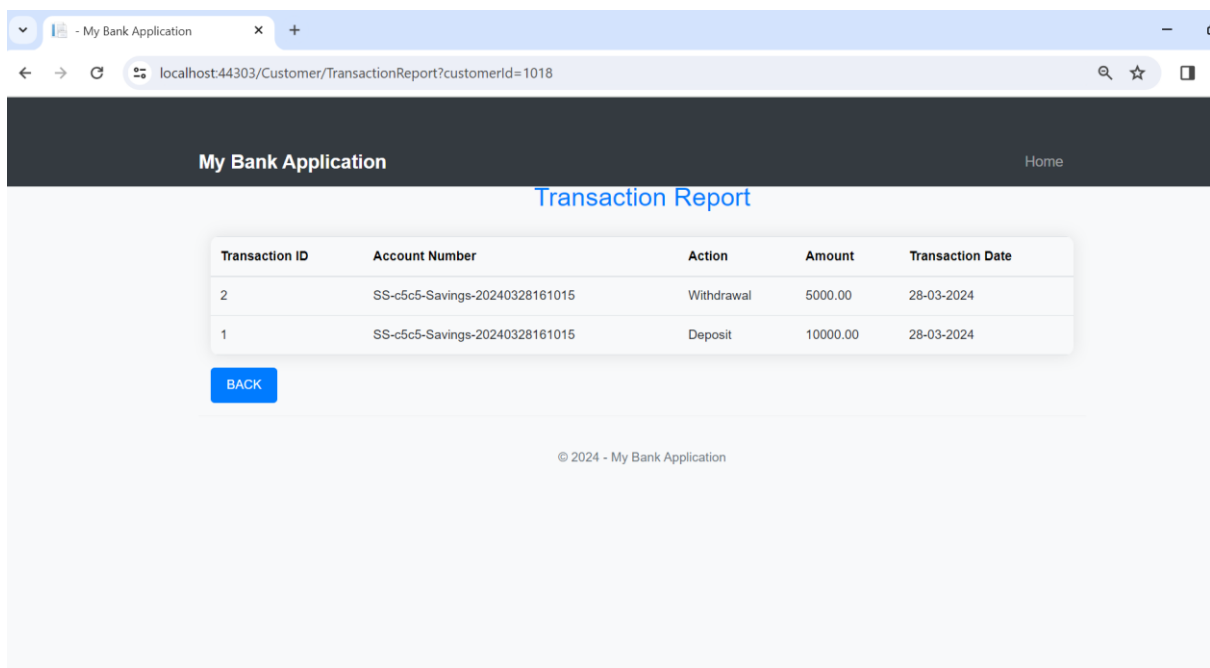


same as deposite when customer click on withdraw a pop up modal open and ask money for withdraw



show I m withdraw 5000 then remaining amount show in dashboard

after that I m show my transition history



this is a history of transition

this is my complete web application of banking device>>

Thank you

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