

## North South University

## **Smart Banking Solution**

### **Database System Labs**

Course: CSE 311 + L

Semester: Summer 2021

Project Submitted By: Course Faculty:

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**Project Overview** 

Smart Banking Solution is an online forum that helps people to get easy access to banking information within minutes. A series of certified agents from different Banks and their agents can

interact with people at any time. Users of the website are allowed to ask/search/surf the website anytime to gain crucial information about their desired banks or banking-related information.

The website also has huge revenue potential due to the interaction of multiple Banks and their agents. Alongside that, Ads are allowed to run on the website through certified Agents and

Admins.

A list of Banks with their contact website is also stored in the website's database. Users can

search for specific Banks, or their agents to talk and find solutions to their problems. Besides that, Users are also given the opportunity to directly contact the Admins/Agents if any further

query is necessary.

**Languages and Resources** 

Primarily to create the visual outlook, we have used HTML and CSS. To establish a connection with our Database, we have used PHP. Our Database is created with MySQL. Interaction

between our website and the database happens in real-time and is fluid.

The database contains all the information about the users, banks, agents, and ads. Information

can be extracted anytime. For very specific purposes, we have also used JavaScript.

**IDEs & Softwares used** 

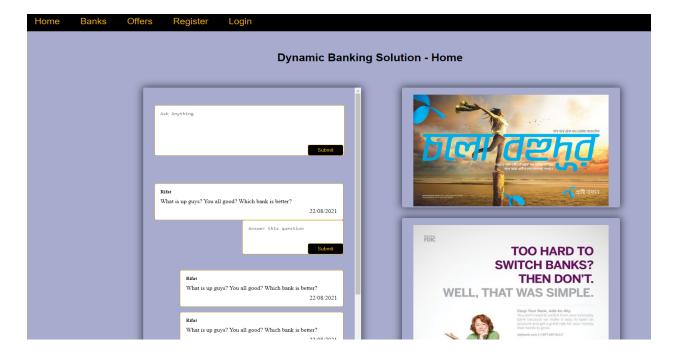
Sublime Text, Notepad, XAMPP, myPHPadmin

OS: Windows 10

Platform Supported: PC / MAC

# Design

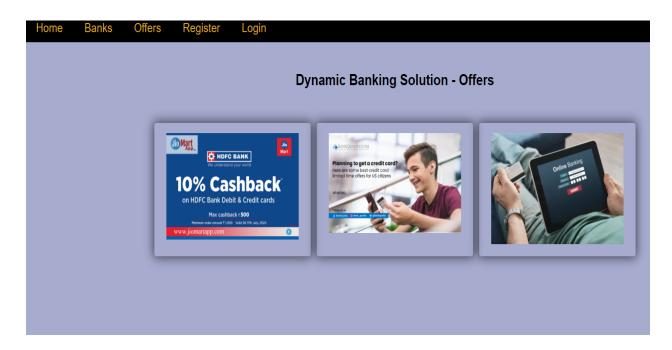
### **Home Page**



### **Banks**

Banks	Website	Phone	Contact	Email
Prime Bank Limited	<u>PB</u> <u>Website</u>	9567265	PB Connect	info@primebank.com.bd
Basic Bank Limited	<u>BB</u> <u>Website</u>	9567265	BB Connect	webmail.basicbanklimited.com
Islami Limited	<u>ISB</u> <u>Website</u>	9567265	ISB Connect	islamibank@gmail.com
HSBC Bank Limited	<u>HSBC</u> <u>Website</u>	096127 16240	HSBC Connect	contact@hsbc.com
Grameen Bank Limited	<u>Grameen</u> <u>Website</u>	0258055628	<u>Grameen</u> <u>Connect</u>	contact@grameen.com

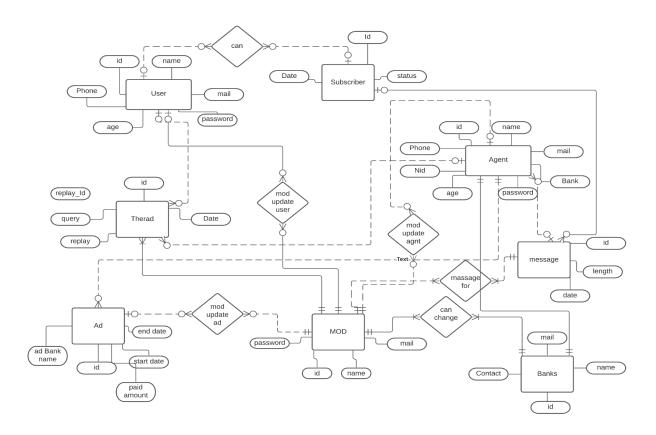
### Offers:



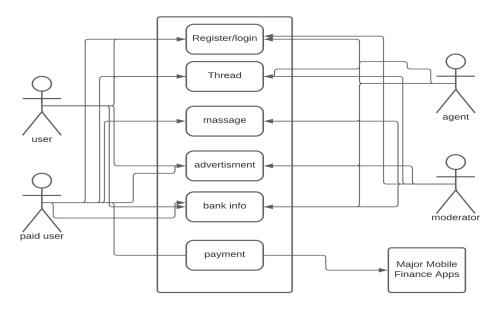
### Register



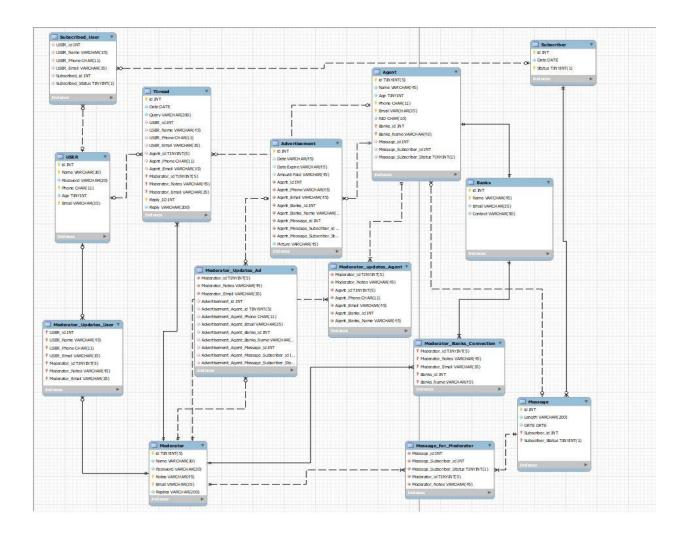
### **ER Diagram**



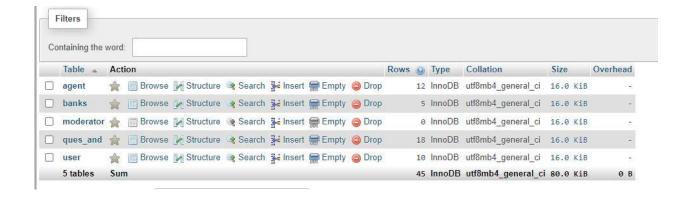
### **Use Case Diagram**



### **Physical Diagram**



#### **Database**



#### **User Experience:**

As described previously in the project proposal, users are able to subscribe to the website, ask their questions, and go through a list of queries that have been asked before by browsing our home feed. All queries are stored with the user's name, replier's name, date & time. Additionally, Ads specified for users will show up on the website. Those Ads will take them to other Bank's websites and directly to the offer page. The subscription fee is very low and the transaction will be handled via 3rd party MFS companies. All transactions are manual to keep the simplicity alive and to save time.

#### Agents & Admins:

To keep the user experience alive, Admins and dedicated Agents of multiple Banks will be looking through the home feed to find new issues submitted by the user. Agents who reply faster and better are definitely going to be given more privileges in the future. Along with that, Admins are also able to answer questions from Users.

As the website is basically a Forum, all the interaction happens mainly in the home feed.

#### Banks:

Multiple registered Banks are included in the Database with their contact information. This information can be found under the Bank's window. Now users won't have to search for individual Bank and find their individual contacts, instead, they will get an index of highly accurate information about some popular Banks in Bangladesh.

Banks are also a huge revenue source for the website as their Ads will be running in the Home Feed and in the Offer page.

### Usage of MySQL throughout the website

```
SET SQL MODE = "NO AUTO VALUE ON ZERO";
START TRANSACTION;
SET time zone = "+00:00";
ALTER TABLE ques and
  MODIFY 'id' int(11) NOT NULL AUTO INCREMENT,
-- AUTO INCREMENT for table `user`
ALTER TABLE `user`
  MODIFY 'ID' int(11) NOT NULL AUTO_INCREMENT,
COMMIT;
$sql_query = "SELECT * FROM ques and where status='User'";
$QUERY = mysqli query($conn, $sql query);
if ($QUERY)
{
 while($row = mysqli fetch assoc($QUERY)){ ?>
$sql_query = "INSERT INTO agent (Name,Email,Phone,Age,Password,Bank_ID,Bank_Name, NID)
VALUES ('$Name2','$Email2','$Phone2','$Age2','".md5($Password22)."', '$Bank_ID', '$Bank_Name','NID')";
$sql_query= "SELECT * FROM agent WHERE Email='$Email2' OR Password='$Password22'";
```

And Much more.

We have used a hefty amount of CSS to stylize the website. Some Basic and advanced HTML implementation were needed to build the structure of the website. PHP worked as the bridge between the Backend and the Frontend.

#### Drawbacks:

Sometimes images don't load properly. Initially, we came up with lots of ideas to implement in the website, but over time we understood our lackings in PHP language. Working with HTML & CSS was pretty easy and comfortable but connecting the Database through PHP took a lot of time for us, even though we were only able to understand basic PHP commands.

Therefore many initially planned features are not present on the website. A plethora of issues mounted up right before the final dates which took multiple days to solve. Most of the issues arrived from the Home Feed as it is our most sophisticated part of the website.

Building the Database wasn't much of an issue but implementing it and connecting it with the website was the main hassle. Although we were able to accomplish much of the tasks we wanted to complete.