PROJECT REPORT

DATABASE MANAGEMENT SYSTEM

CSE 303

GROUP 14

Ali Daud Hossain - 1930544

Tauhidul Islam - 2030441

Sajjadul Islam Yeameen - 1930804

Shad Ashfaque Hossain - 1930871

Syed Noor-A-Manik - 1930146

Mohammad Toha - 1930615

TABLE OF CONTENTS

CHAPTER 1-INTRODUCTION :

- **BACKGROUND OF THE ORGANIZATION :**
- **BACKGROUND OF THE PROJECT:**
- **OBJECTIVE OF THE PROJECT :**
- **SCOPE OF THE PROJECT :**

CHAPTER 2-REQUIREMENT ANALYSIS :

- **RICH PICTURE – EXISTING SYSTEM :**
- **SIX ELEMENTS ANALYSIS – EXISTING SYSTEM :**
- **RICH PICTURE – PROPOSED SYSTEM :**
- **SIX ELEMENTS ANALYSIS – PROPOSED SYSTEM :**
- **PROBLEM ANALYSIS :**

CHAPTER 3-LOGICAL SYSTEM DESIGN :

- **BUSINESS RULE :**
- **ENTITY RELATIONSHIP DIAGRAM :**
- **ENTITY RELATIONSHIP DIAGRAM TO RELATIONAL SCHEMA :**
- **NORMALIZATION :**
- **DATA DICTIONARY :**

CHAPTER 4-PHYSICAL SYSTEM DESIGN :

- **INPUT FORMS :**
- **OUTPUT FORMS :**

CHAPTER 5-CONCLUSION :

- **PROBLEM AND SOLUTION :**
- **ADDITIONAL FEATURES & FUTURE DEVELOPMENT :**

REFERENCES :

CHAPTER 01: INTRODUCTION

Background of the organization

LankaBangla Finance Limited (LBFL) stands as a prominent financial institution that has been at the forefront of providing comprehensive financial services in Bangladesh. Established with a vision to empower individuals and businesses with innovative financial solutions, LBFL has carved a niche for itself in the country's financial landscape.

Founded in [year], LBFL has steadily grown into a diversified financial conglomerate, offering a wide array of services that cater to the diverse needs of its clientele. The company's commitment to excellence, coupled with its customer-centric approach, has propelled it to become a trusted partner for financial services.

Services and Offerings:

LBFL's service portfolio encompasses a range of financial products and solutions, each tailored to meet the specific requirements of its customers. The company's offerings include:

Retail Banking: LBFL offers a comprehensive range of retail banking services, including savings and current accounts, fixed deposits, and personalized investment options. These offerings are designed to help individuals achieve their financial goals while ensuring their funds are secure and well-managed.

Consumer Loans: The institution provides consumer loans to enable customers to fulfill various aspirations, such as purchasing homes, vehicles, or funding higher education. These loans are characterized by competitive interest rates and flexible repayment terms.

Corporate Financing: LBFL extends its support to businesses through a variety of corporate financing solutions. These encompass working capital loans, trade finance, and project financing, contributing to the growth and development of enterprises across different sectors.

Investment Services: The company offers investment advisory services to assist clients in making informed decisions regarding their financial portfolios. These services are backed by expert insights and market research, ensuring that clients can optimize their investment strategies.

Digital Banking: In line with the evolving technological landscape, LBFL has embraced digital innovation to provide convenient and accessible banking solutions. Through online and mobile banking platforms, customers can manage their accounts, conduct transactions, and access services from the comfort of their homes.

Insurance Solutions: Recognizing the importance of risk mitigation, LBFL collaborates with reputable insurance providers to offer insurance products, including life and health coverage, ensuring that customers are protected against unforeseen circumstances.

LankaBangla Finance Limited's journey from its inception to its status as a leading financial institution in Bangladesh is a testament to its dedication, innovation, and unwavering commitment to customer satisfaction. With its comprehensive range of financial services, customer-centric approach, and contributions to societal betterment, LBFL continues to shape the

financial landscape of Bangladesh and stands as a symbol of reliability and trust in the realm of financial services.

Objectives of the Project

The primary objective of implementing an online financial services platform for LankaBangla Finance Limited (LBFL) is to seamlessly transition from manual, in-person processes to a modern and user-friendly website. This strategic initiative aims to harness the power of digital technology to enhance customer experience, streamline operations, and achieve broader organizational goals. The following objectives outline the key outcomes sought through the successful implementation of the online platform:

Enhanced Customer Convenience: The central focus of this project is to provide LBFL's customers with a convenient and hassle-free method of accessing and utilizing financial services. By offering an intuitive website interface, users will be able to perform a range of financial transactions, such as account management, loan applications, fund transfers, and investment inquiries, from the comfort of their homes or offices.

Efficiency and Streamlined Operations: The online platform aims to optimize LBFL's internal processes by automating various tasks that were previously performed manually. By implementing digital workflows for account opening, loan processing, and other services, the organization can achieve higher operational efficiency, reduce paperwork, and minimize processing time.

Expanded Service Reach: With the online platform, LBFL can extend its services beyond physical branch locations. Geographical constraints will no longer limit the accessibility of financial services, allowing the organization to tap into previously untapped markets and cater to a wider customer base.

Personalization and Customization: The website can be designed to offer personalized experiences for each user. By analyzing user behavior and preferences, LBFL can present relevant financial products, investment opportunities, and advisory services tailored to individual needs, thereby enhancing customer engagement and satisfaction.

Data Security and Privacy: Ensuring the security and confidentiality of customer data is a paramount objective of the online platform. Implementing robust encryption, multi-factor authentication, and stringent data protection measures will instill trust among customers and mitigate potential security risks.

Financial Inclusion and Accessibility: The online platform aligns with LBFL's commitment to financial inclusion. By offering digital financial services, LBFL can cater to individuals who may have limited physical access to traditional banking facilities, contributing to broader financial inclusion goals.

Real-time Monitoring and Reporting: The platform can provide real-time insights and reports to LBFL's management, enabling data-driven decision-making. The availability of accurate, up-to-date information will facilitate strategic planning, risk assessment, and performance evaluation.

Adaptation to Technological Trends: The implementation of an online platform positions LBFL as an industry leader that embraces technological advancements. By staying abreast of emerging digital trends, LBFL can remain competitive and relevant in a rapidly evolving financial landscape.

Sustainability and Future Growth: The online platform lays the foundation for LBFL's sustainable growth by attracting tech-savvy customers and enhancing its market presence. As customer preferences shift towards digital channels, LBFL can capitalize on this trend to establish a strong online brand and ensure long-term viability.

Scope of the project

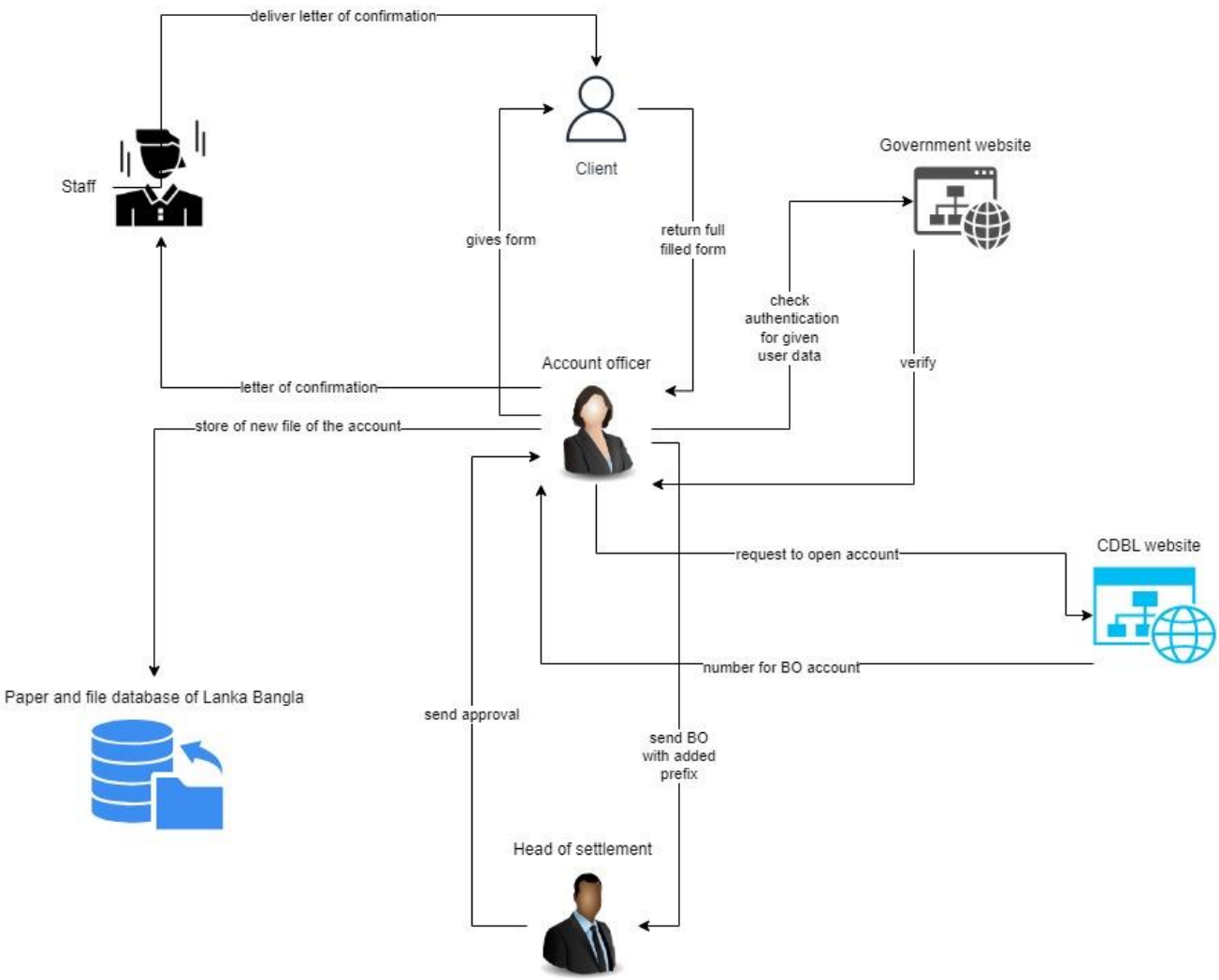
The scope of the project to implement an online financial services platform for LankaBangla Finance Limited is comprehensive and encompasses various aspects of design, development, implementation, testing, and ongoing maintenance. The scope outlines the specific tasks, functionalities, and deliverables required to successfully execute the project. Here is an overview of the project scope:

- **Website Development and Design**
- **Functionality and Features**
- **Backend Development and Integration**
- **Security and Compliance**
- **Testing and Quality Assurance**
- **Training and Support**
- **Deployment and Launch**
- **Monitoring and Maintenance**
- **Data Analytics and Reporting**
- **Future Enhancements and Scaling**

The successful completion of this project will lead to the establishment of a robust and user-centric online financial services platform for LankaBangla Finance Limited, positioning the organization as a frontrunner in the digital transformation of the financial industry in Bangladesh.

CHAPTER 2: REQUIREMENT ANALYSIS

Rich Picture – Existing System



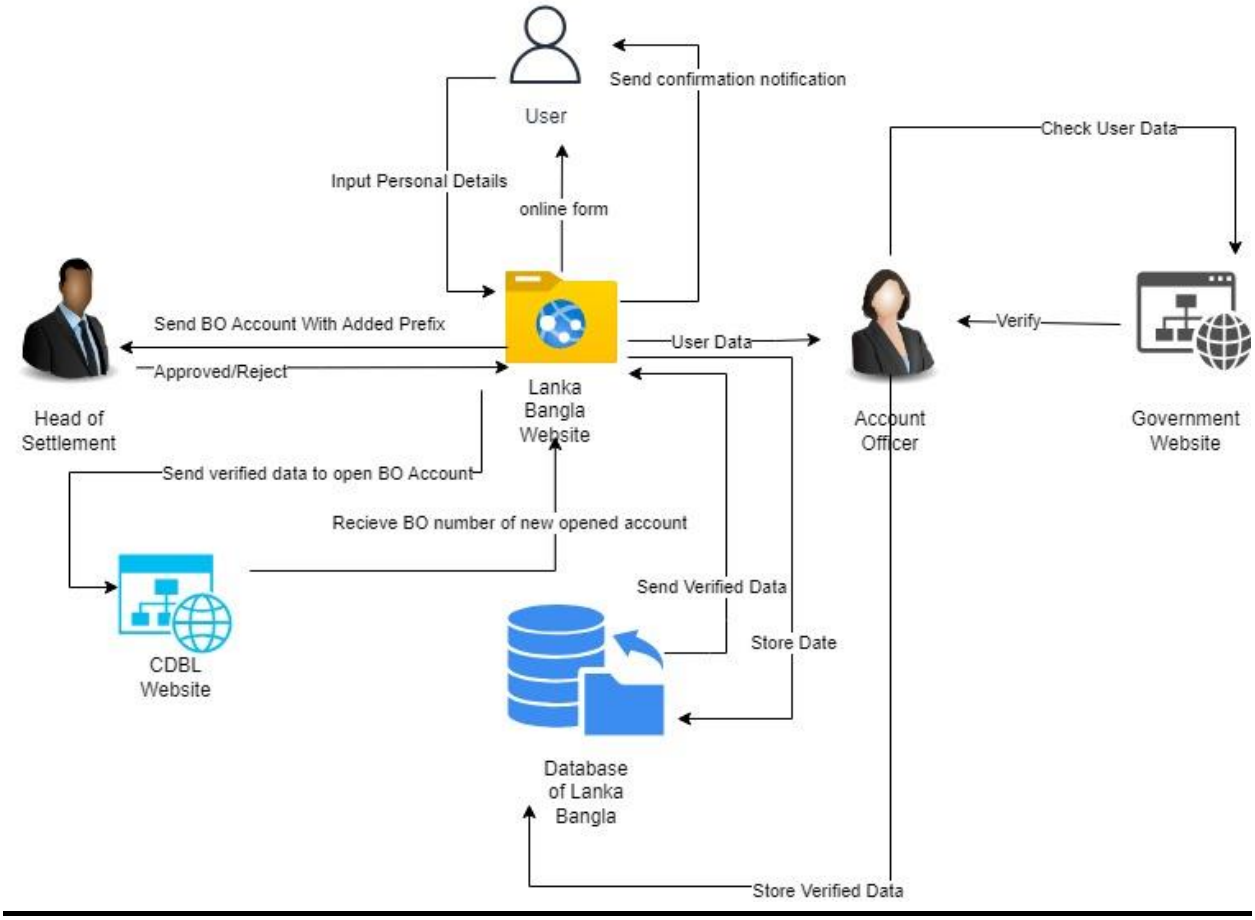
Six Elements Analysis – Existing System

Process	Human	Non-Computing Hardware	Computing Hardware	Software	Database	Communication & Network
Form fill-up	1.Client: The client will fill up the form with all necessary credentials and return it to the Account Office. 2.Account Officer: The Account Officer will provide a hardcopy form to the Client.	Pen & Form: Use pen and form to record the data in a hardcopy. Register: All forms will be recorded in a File register.				
Verification	Account Officer: The Account officer will check for authentication of the given client's data in Government Website. And then the data's will be		Computer & Mobile Phone: These Hardware's are required to access the website.	Government Website: Client's data are checked in this website for verification.		Internet: Internet is required to create a communication medium to use Government Website.

	verified and send it back to the officer.					
Request a server	Account Officer: The Account officer will send a request to the CDBL website to open an account.		Computer & Mobile Phone: These Hardware's are required to access the website.	CDBL Website: The CDBL website will provide the BO account number to the officer.		Internet: Internet is required to create a communication medium in between Account Officer and the CDBL website.
Approval	1.Account Officer: The Account Officer will send the BO account number with added prefix to the Head. 2.Head of Settlement: The Head will receive the BO account number and send an approval notice to the Account Officer.		Computer & Mobile Phone: These Hardware's are required to establish a communication path with the Head.	Gmail: Used to send/receive mails.		Internet: Internet is required to create a communication medium in between Account Officer and the Head of settlement.

Storing Files	Account Officer: The Account Officer will store the new account files into a file database.		Computer & Mobile Phone: These Hardware's are required to access the file database of Lanka Bangla.	MS Excel: Used to store the data of those new account files of Lanka Bangla in an excel sheet.	Database of Lanka Bangla: Storing the new account data.	
Confirmation	1.Account Office: The Account Officer will forward a confirmation letter to the Staff. 2.Staff: After receiving the confirmation letter from the Account officer, staff will deliver the letter to the client.	Pen & Paper: Use pen to write a message for the confirmation message in a paper.				

Rich Picture – Proposed system



Six Elements Analysis – Proposed System

Process	Human	Non-Computing Hardware	Computing Hardware	Software	Database	Communication & Network
Input Client's Personal Data	1.Client: Client will input all personal details and send it to Lanka Bangla Website. And the Client's data inputs will be stored in Lanka Bangla Database.		Computer, Mobile Phone: Computer and Mobile Phones are required to access Lanka Bangla Website	Lanka Bangla Website: Record necessary Client's Personal Data.	Lanka Bangla Database: All the Client's personal details will be stored & maintained properly in Lanka Bangla Database.	Internet: Internet is required to create a communication medium to use Lanka Bangla Website.
Verification	1.Account Office: The provided client data will be received from Lanka Bangla Website. And then the Account Officer will verify the received data from the Government Website. And finally, the officer will send		Computer, Mobile Phone: Computer and Mobile Phones are required to access Lanka Bangla Website.	Lanka Bangla Website: Record necessary Client's Personal Data. Government Website: Will check the Client's personal data and get verified from the website.	Lanka Bangla Database: All the Client's personal details will be stored & maintained properly in Lanka Bangla Database.	Internet: Internet is required to create a communication medium to use Lanka Bangla Website.

	the verified data to Lanka Bangla Database.					
Approval	1.Head of Settlement The Head of Settlement will approve those BO account which got verified client's data provided by CDBL website which is send it to Lanka Bangla Website. The Head of Settlement will receive the BO account with added prefix and then send an approval message to the Lanka Bangla Website.		Computer, Mobile Phone: Computer and Mobile Phones are required to access Lanka Bangla Website.	Lanka Bangla Website: Record necessary Client's Personal Data. Will receive the BO account with added prefix provided by Lanka Bangla website. CDBL website: The verified Client's data will provide a BO number from CDBL website and request Lanka Bangla Website to open the account.		Internet: Internet is required to create a communication medium to use Lanka Bangla Website.
Confirmation	1.Client: The Client will receive the confirmation notification		Computer, Mobile Phone: Computer and Mobile Phones	Lanka Bangla Website: Record necessary Client's Personal		Internet: Internet is required to create a communication medium to use

	from the Lanka Bangla Website.		are required to access Lanka Bangla Website.	Data. Gmail: Will receive the confirmation mail from Lanka Bangla Website.		Lanka Bangla Website.

Problem Analysis

PROCESS NAME	EXISTING SYSTEM PROBLEMS	PROPOSED SOLUTIONS
Developing an online service for LankaBangla Finance Limited	Customers needed to visit the finance office to get their forms, from the accounts officer in order to register.	Providing an online service platform would allow the customer to register from their residence without facing the hassle of travelling to their designated offices.
Developing a cloud storage solution for file database system.	Customer's data/information are stored in a file database, where they faced issues with security and loss of data.	Providing a cloud storage solution to safeguard the customer's data/information to ensure security and back up data.
Automation of system which verifies the data and notifies the client when verification is complete.	Account officer needed to manually input the data in the government website of the customer and then had to wait for letter confirmation which was later passed on by a staff.	Online form is automatically submitted to government website where it checks the user data and is later verified by the accounts officer, and the user gets notified by email/text.
Automation of verification and approval of BO number.	After verification from the government website, the officer will request to open an account on the CDBL website. Which then sends a BO number for an account. It is then later sent to the Head with added prefix for approval and then sent back to the officer to confirm it to the client.	After verification from the government website, the LankaBangla website will send verified data to the CDBL website to open an account. It will then send this information back to the LankaBangla website which will then send the BO account with added prefix

		to the Head for approval and then notify the client.

CHAPTER 3: LOGICAL SYSTEM DESIGN

Business Rule

LankaBangla Finance Limited's overarching goal from the implementation of the online financial services platform is to position itself as a leading, customer-centric digital financial services provider in Bangladesh. The company aims to leverage technology to enhance its offerings, streamline operations, and create a significant positive impact on its customers, the industry, and its own growth trajectory. Specifically, LankaBangla Finance Limited's goals can be outlined as follows:

Digital Transformation Leadership: LBFL aims to become a pioneer in the digital transformation of the financial industry in Bangladesh. The company's goal is to lead the way in adopting advanced technology to provide modern, convenient, and secure financial services to its customers.

Enhanced Customer Experience: The primary focus is on delivering an exceptional and seamless user experience to customers. LBFL aims to provide user-friendly online tools and services that cater to the needs of its diverse customer base, fostering strong customer loyalty and satisfaction.

Market Expansion and Inclusion: LBFL seeks to expand its market reach by tapping into segments that might have been underserved or inaccessible due to geographical

limitations. The online platform's accessibility can contribute to greater financial inclusion, reaching individuals and businesses beyond traditional branch locations.

Operational Efficiency: By automating manual processes and integrating digital workflows, LBFL intends to achieve higher levels of operational efficiency. This includes faster processing times, reduced paperwork, and streamlined internal processes.

Innovation and Agility: LBFL aims to establish itself as an innovative financial institution that continuously evolves its services based on customer needs and emerging industry trends. The platform provides a foundation for future technological advancements, such as integrating AI-driven services and enhancing mobile app capabilities.

Data-Driven Decision Making: The online platform will generate valuable data insights about customer behavior, preferences, and usage patterns. LBFL's goal is to utilize this data for informed decision-making, refined marketing strategies, and the development of new financial products.

Brand Modernization and Differentiation: Through the implementation of the online platform, LBFL aims to reposition its brand as forward-thinking, modern, and responsive to technological advancements. The platform can differentiate LBFL from competitors and attract tech-savvy customers.

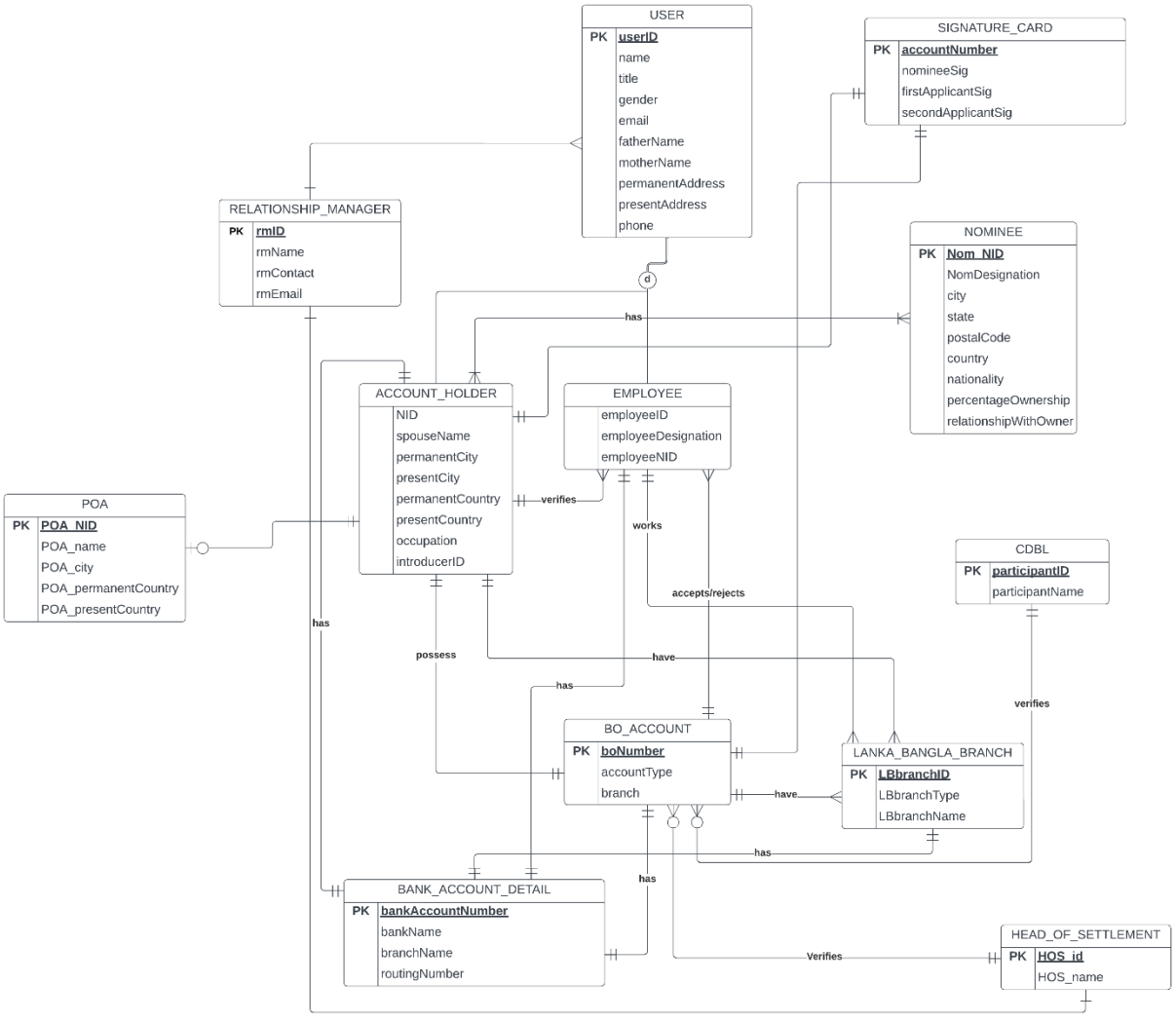
Financial Growth and Sustainability: LBFL aims to drive revenue growth through the platform by offering value-added services, attracting new customers, and increasing customer engagement. This growth contributes to LBFL's long-term sustainability and financial success.

Customer Education and Empowerment: LBFL's goal is to empower customers with financial knowledge and tools. The platform can offer educational resources, calculators, and investment insights to help customers make informed financial decisions.

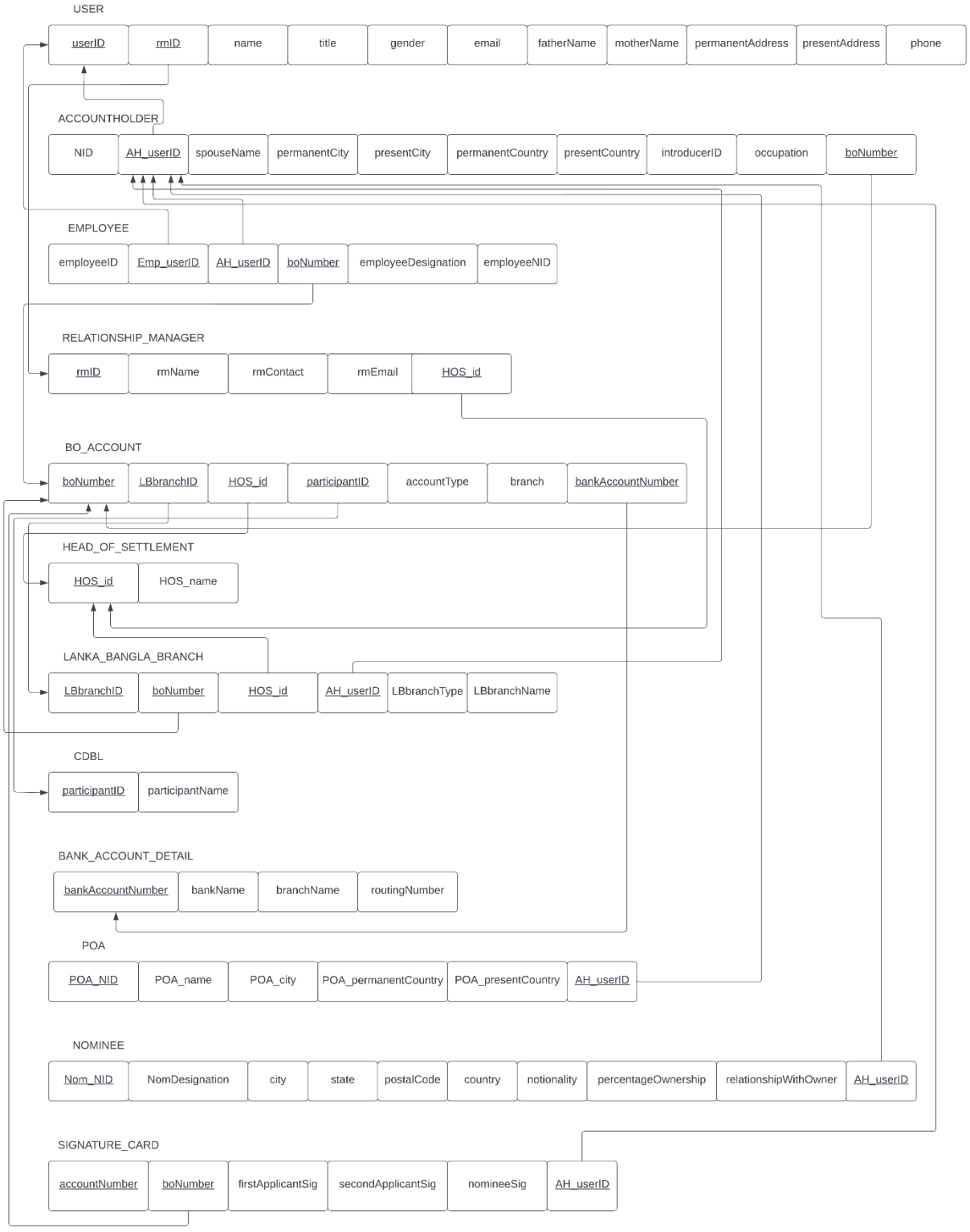
Risk Management and Compliance: The platform allows LBFL to maintain a strong focus on risk management and compliance. By adhering to data security regulations and financial industry standards, LBFL aims to ensure the safety and trust of its customers.

In summary, LankaBangla Finance Limited's overarching goal is to leverage the implementation of the online financial services platform to transform its operations, provide unparalleled customer experiences, and solidify its position as a digital leader in the financial industry in Bangladesh. Through this initiative, LankaBangla Finance Limited seeks to achieve growth, innovation, and enduring customer relationships.

Entity Relationship Diagram



Entity Relation Diagram to Relation Schema



Normalization

1NF

T1

a1	d1	a2	a3	a4	a5	a6	a7	a8	a9	a10
c2	c1	b2	e1	c3	c4	b1	b3	b4	b5	b6
b7	b8	b9	g1	f1	h1	e2	e3	i1	g2	g3
h2	f2	i2	i3	i4	j1	j2	j3	j4	j5	k1
k2	k3	k4	k5	k6	k7	k8	k9	l1	l2	l3
l4	d2	d3	d4							

2NF

T11
a1 d1 a2 a3 a4 a5 a6 a7 a8 a9 a10
T12
c2 c1 b2 e1 c3 c4
T13
j1 j2 j3 j4 j5
T14
k1 k2 k3 k4 k5 k6 k7 k8 k9
T15
l1 l2 l3 l4
T16
a1 c2 j1 k1 l1 d2 d3 d4 e2 e3 f1
f2 g1 g2 g3 h1 h2 i1 i2 i3 i4 b1
b3 b4 b5 b6 b7 b8 b9

3NF

T11 Is already in 3NF

T121

T123

T13 Is already in 3NF

T14 Is already in 3NF

T15 Is already in 3NF

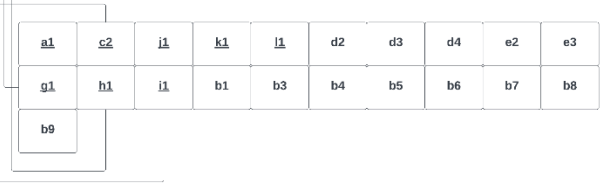
T161

T162

T163

T164

T165



BCNF

All relations are in BCNF

Data Dictionary

RelationshipManager_T:

Name	Data Type	Size	Remark
rmID	INT	10	This is the primary key of this relation. This contains the ID of the Relationship Manager. Example: “0123456789”
rmName	VARCHAR	30	This contains the name of the relationship manager.
rmContact	VARCHAR	15	This contains the contact number of the relationship manager
rmEmail	VARCHAR	30	This contains the email ID of the relationship manager
HOS_ID	INT	10	This contains the Head_Of_Settlement ID and this is a foreign key with reference to the HEAD_OF_SETTLEMENT table.

User_T:

Name	Data Type	Size	Remark
userID	INT	10	This is the primary key of this relation. This contains the ID of the User. Example: “0123456789”
rmID	INT	10	This is a primary key as well as a foreign key of this relation with reference to the Relationship_Manager table. This contains the ID of the Relationship Manager. Example: “0123456789”
Name	VARCHAR	30	This contains the name of the user.
Title	VARCHAR	30	
Gender	CHAR	1	This contains the gender of the user. Example: “M”
Email	VARCHAR	30	This contains the email of the user.
fatherName	VARCHAR	30	This contains the father’s name of the user.
motherName	VARCHAR	30	This contains the mother’s name of the user.
permanentAddress	TEXT	200 Bytes	This contains the permanent address of the user.
Phone	VARCHAR	15	This contains the phone number of the user.

ACCOUNTHOLDER_T:

Name	Data Type	Size	Remark
NID	INT	15	This is the primary key of this relation. This contains the NID number of the Account Holder.
AH_userID	INT	10	This contains the Account Holder's User ID.
permanentCity	VARCHAR	30	This contains the permanent city address of the Account Holder.
presentCity	VARCHAR	30	This contains the present city address of the Account Holder.
permanentCountry	VARCHAR	30	This contains the permanent country of the Account Holder.
presentCountry	VARCHAR	30	This contains the present country of the Account Holder.
Occupation	VARCHAR	30	This contains the occupation of the Account Holder.
boNumber	VARCHAR	30	This contains the BO number of the Account Holder.

EMPLOYEE_T:

Name	Data Type	Size	Remark
employeeID	INT	10	This is the primary key of this relation. This contains the ID number of the employee. Example: “0123456789”
AH_userID	INT	10	This is a primary key as well as a foreign key of this relation with reference to the ACCOUNTHOLDER table. This contains the ID of the Account Holder. Example: “0123456789”
employeeDesignation	VARCHAR	30	This contains the employee’s designation.
employeeNID	INT	15	This contains the NID number of the employee.

HEAD_OF_SETTLEMENT_T:

Name	Data Type	Size	Remark
HOS_id	INT	10	This is the primary key of this relation. This contains the ID number of the head of settlement. Example: “0123456789”
HOS_name	VARCHAR	30	This contains the name of the head of settlement.

LANKA_BANGLA_BRANCH_T:

Name	Data Type	Size	Remark
LBbranchID	INT	10	This is the primary key of this relation. This contains the ID number of the branch. Example: “0123456789”
boNumber	VARCHAR	15	This contains the BO number of the branch.
HOS_ID	INT	10	This contains the ID number of the Head of Settlement who is related to the branch.
AH_userID	INT	10	This contains the Account Holder’s User ID of the branch.
LBbranchType	VARCHAR	30	This contains the type of branch.
LBbranchName	VARCHAR	30	This contains the name of the branch.

Central Depository Bangladesh Limited Table:

CDBL_T:

Name	Data Type	Size	Remark
participantID	INT	10	This is the primary key of this relation. This contains the ID number of the participant. Example: “0123456789”
participantName	VARCHAR	30	This contains the name of the participant.

BANK_ACCOUNT_DETAIL_T:

Name	Data Type	Size	Remark
bankAccountNumber	VARCHAR	30	This is the primary key of this relation. This contains the bank account number.
bankName	VARCHAR	30	This contains the bank account holder's name
branchName	VARCHAR	30	This contains the bank account holder's branch name.
routingNumber	VARCHAR	30	The routing number consists of nine digits printed on the bottom-left corner of your check.

Power of Attorney Table:

POA_T:

Name	Data Type	Size	Remark
POA_NID	INT	15	This is the primary key of this relation. This contains poa nid number.
POA_name	VARCHAR	30	This contains poa name number.
POA_city	VARCHAR	30	This contains poa city number.
POA_permanentCountry	VARCHAR	30	This contains poa permanent country number.

POA_presentCountry	VARCHAR	30	This contains poa present country.
AH_userID	INT	10	This is a foreign key of this relation with reference to the ACCOUNTHOLDER table. This contains the account holder's ID.

NOMINEE_T:

Name	Data Type	Size	Remark
Nom_NID	INT	15	This is the primary key of this relation. This contains nominee's nid number.
NomDesignation	VARCHAR	30	This contains nominee's designation.
city	VARCHAR	30	This contains nominee's city name.
state	VARCHAR	30	This contains nominee's state.
postalCode	VARCHAR	30	This contains nominee's postal code.
country	VARCHAR	30	This contains nominee's country.

nationality	VARCHAR	30	This contains nominee's nationality.
percentageOwnership	DECIMAL	(3,2)	This contains nominee's percentage ownership.
relationshipWithOwner	VARCHAR	30	This contains nominee's relationship with the owner.
AH_userID	INT	10	This is a foreign key of this relation with reference to the ACCOUNTHOLDER table. This contains the account holder's ID.

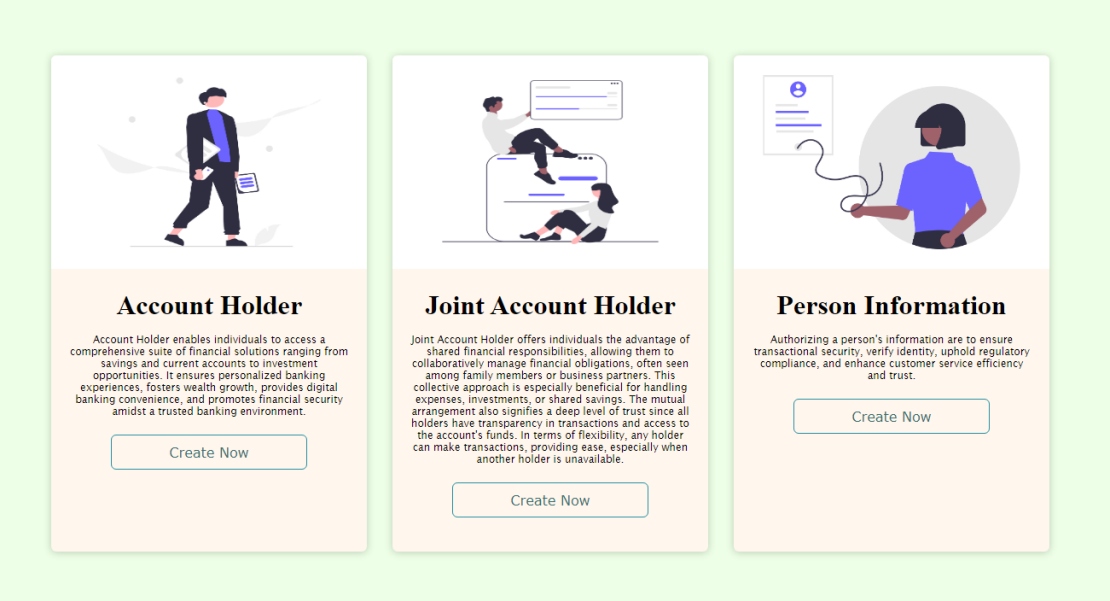
SIGNATURE_CARD_T:

Name	Data Type	Size	Remark
accountNumber	VARCHAR	30	This is the primary key of this relation.

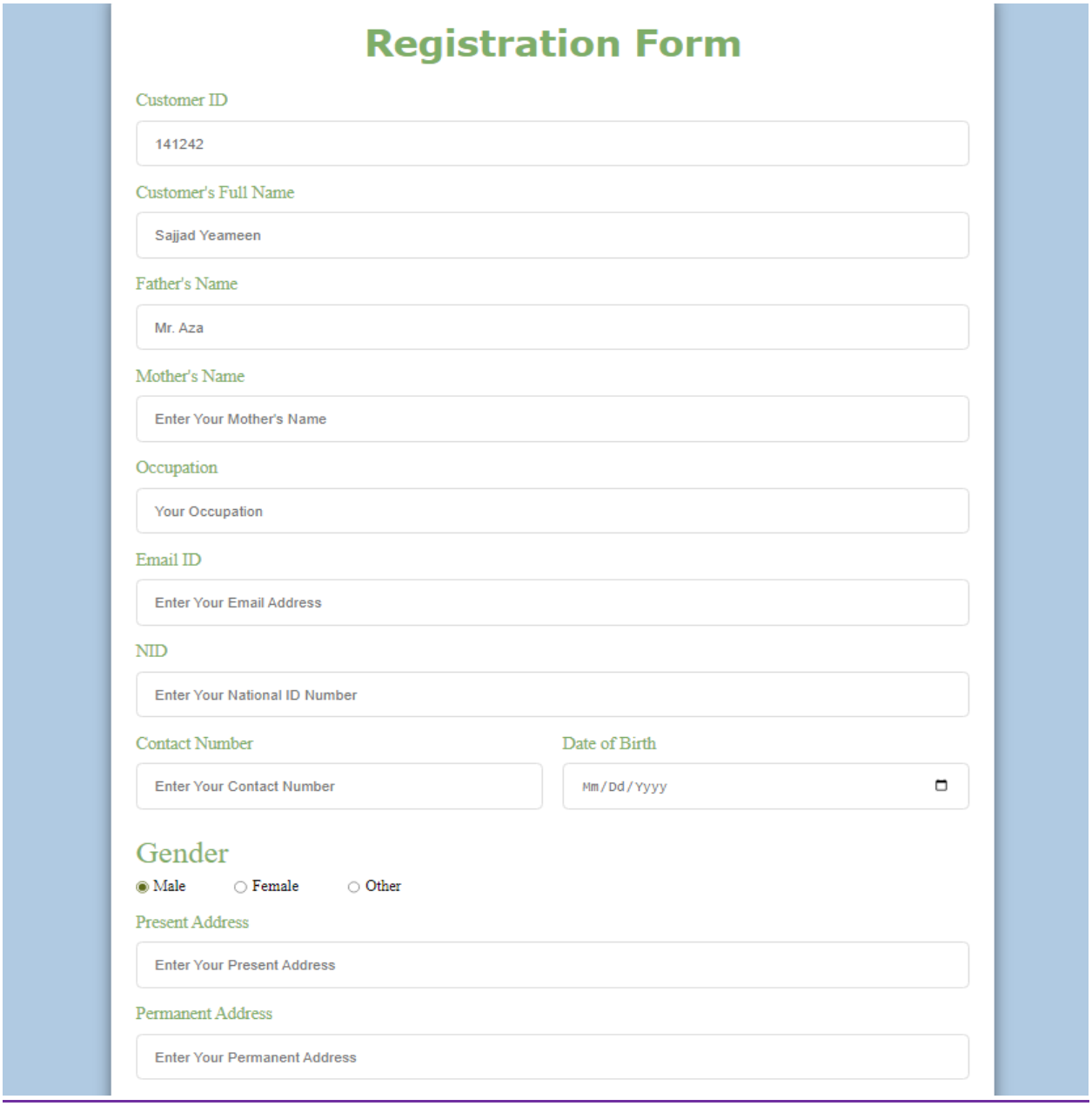
			This contains the account number.
boNumber	VARCHAR	30	This contains the bo number.
firstApplicantSig	VARCHAR	30	This contains the first applicant's signature.
secondApplicantSig	VARCHAR	30	This contains the second applicant's signature.
nomineeSig	VARCHAR	30	This contains the nominee's signature.
AH_userID	INT	10	This is a foreign key of this relation with reference to the ACCOUNTHOLDER table. This contains the account holder's ID.

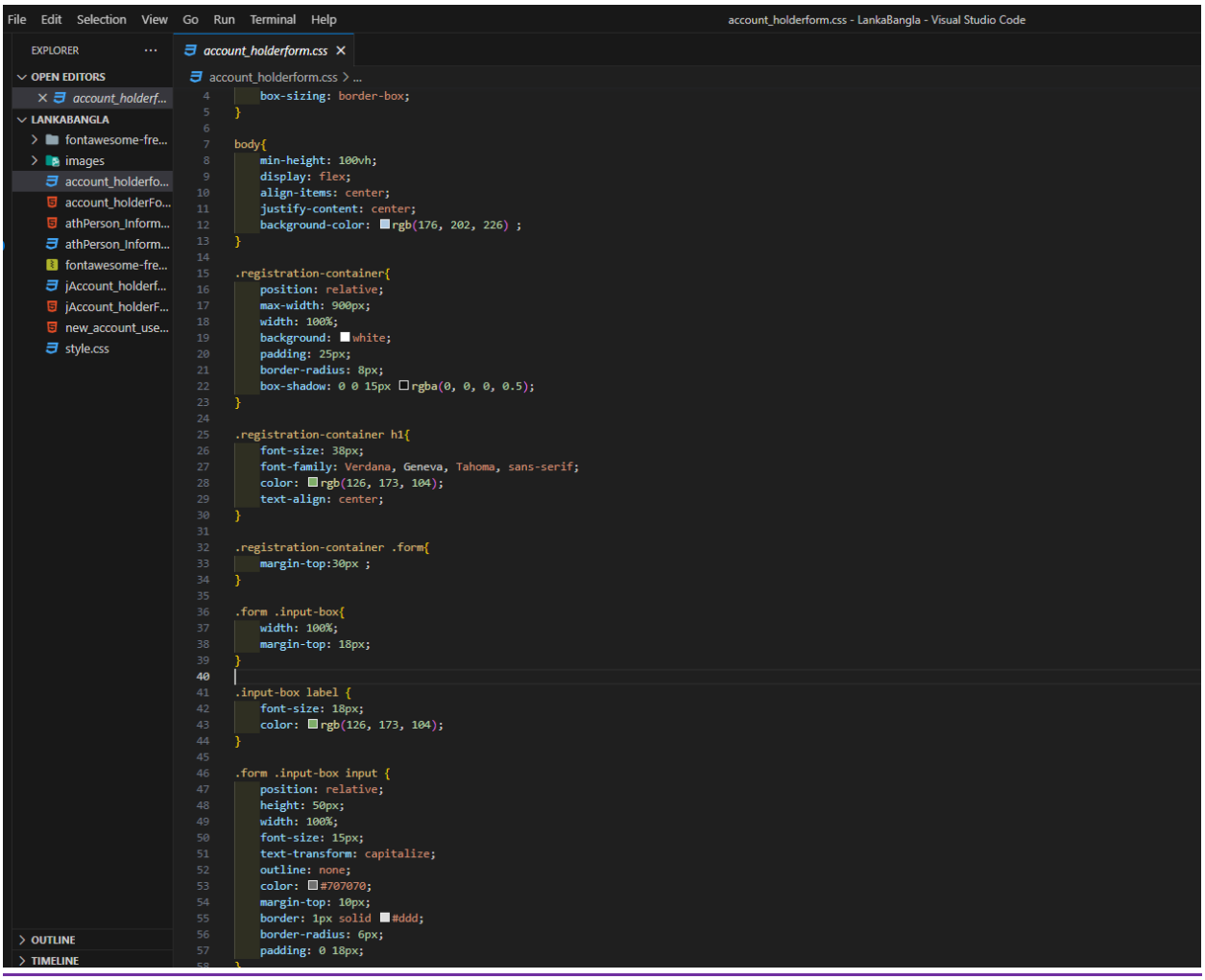
Chapter 4: PHYSICAL SYSTEM DESIGN

Input Forms:




```
<link rel="stylesheet" href="./style.css">
</head>

<body>
    <div class="card-container">
        <div class="card">
            <div class="image">
                <img src="./images/Account Holder.png" alt="Account Holder">
            </div>

            <div class="details">
                <h1>Account Holder</h1>
                <p>Account Holder enables individuals to access a comprehensive suite of financial solutions ranging
                    from savings and current accounts to investment opportunities. It ensures personalized banking
                    experiences, fosters wealth growth, provides digital banking convenience, and promotes financial
                    security amidst a trusted banking environment.</p>
                <a href="./account_holderForm.html">Create Now</a>
            </div>
        </div>

        <div class="card">
            <div class="image">
                <img src="./images/Joint Account Holder.png" alt="Joint Account Holder">
            </div>

            <div class="details">
                <h1>Joint Account Holder</h1>
                <p>Joint Account Holder offers individuals the advantage of shared financial responsibilities,
                    allowing them to collaboratively manage financial obligations, often seen among family members
                    or
                    business partners. This collective approach is especially beneficial for handling expenses,
                    investments,
                    or shared savings. The mutual arrangement also signifies a deep level of trust since all holders
                    have
                    transparency in transactions and access to the account's funds. In terms of flexibility, any
                    holder
                    can
                    make transactions, providing ease, especially when another holder is unavailable.</p>
                <a href="./jAccount_holderForm.html">Create Now</a>
            </div>
        </div>


        <div class="card">
            <div class="image">
```


Registration Form
Customer ID
141242
Customer's Full Name
Sajjad Yeameen
Father's Name
Mr. Aza
Mother's Name
Enter Your Mother's Name
Occupation
Your Occupation
Email ID
Enter Your Email Address
NID
Enter Your National ID Number
Contact Number
Enter Your Contact Number
Date of Birth
Mm/Dd/Yyyy
Gender
Male
Female
Other
Present Address
Enter Your Present Address
Permanent Address
Enter Your Permanent Address


File Edit Selection View Go Run Terminal Help
account_holderform.css - LankaBangla - Visual Studio Code
EXPLORER
OPEN EDITORS
account_holderf...
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athPerson_Inform...
fontawesome-fre...
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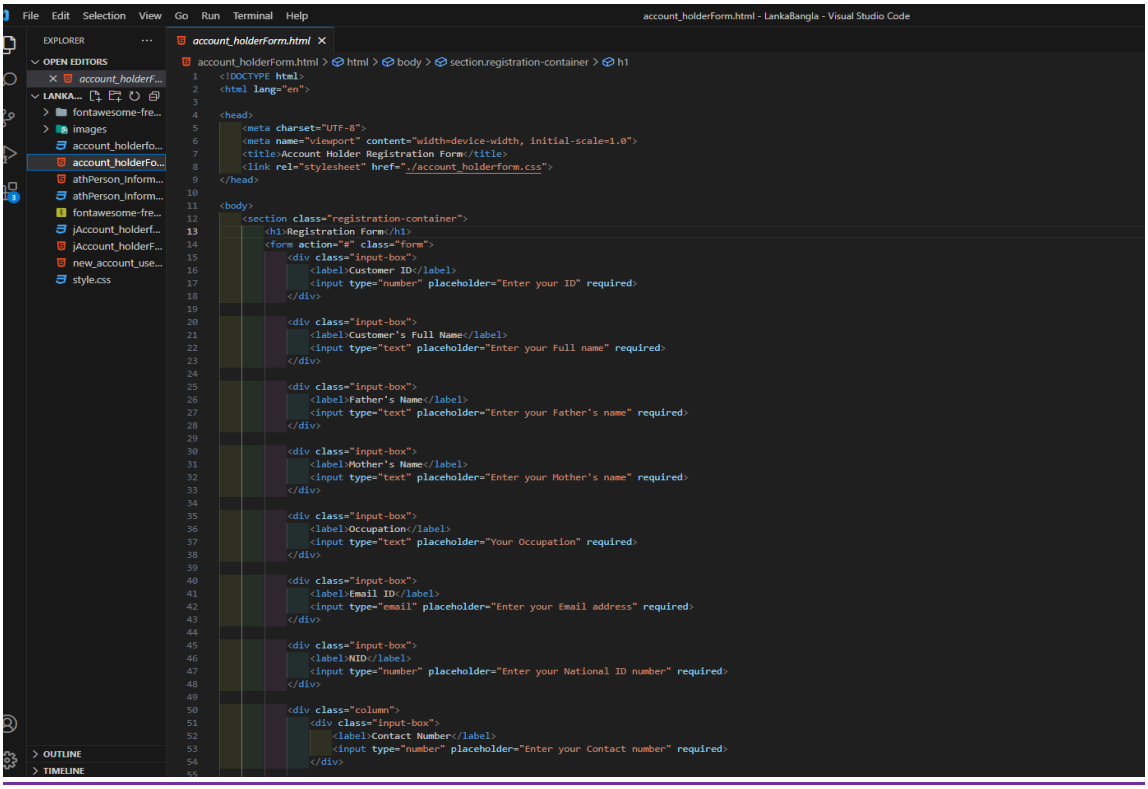
jAccount_holderF...
new_account_use...
style.css
OUTLINE
TIMELINE
account_holderform.css
account_holderform.css > ...
box-sizing: border-box;
}
body{
min-height: 100vh;
display: flex;
align-items: center;
justify-content: center;
background-color: rgb(176, 202, 226) ;
}
.registration-container{
position: relative;
max-width: 900px;
width: 100%;
background: white;
padding: 25px;
border-radius: 8px;
box-shadow: 0 0 15px rgba(0, 0, 0, 0.5);
}
.registration-container h1{
font-size: 38px;
font-family: Verdana, Geneva, Tahoma, sans-serif;
color: rgb(126, 173, 104);
text-align: center;
}
.registration-container .form{
margin-top:30px ;
}
.form .input-box{
width: 100%;
margin-top: 18px;
}
.input-box label {
font-size: 18px;
color: rgb(126, 173, 104);
}
.form .input-box input {
position: relative;
height: 50px;
width: 100%;
font-size: 15px;
text-transform: capitalize;
outline: none;
color: #707070;
margin-top: 10px;
border: 1px solid #ddd;
border-radius: 6px;
padding: 0 18px;


File Edit Selection View Go Run Terminal Help
account_holderForm.html - LankaBangla - Visual Studio Code
EXPLORER
account_holderForm.html
account_holderForm.html > html > body > section.registration-container > h1
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Account Holder Registration Form</title>
<link rel="stylesheet" href="./account_holderform.css">
</head>
<body>
<section class="registration-container">
<h1>Registration Form</h1>
<form action="#" class="form">

<label>Customer ID</label>
<input type="number" placeholder="Enter your ID" required>

<label>Customer's Full Name</label>
<input type="text" placeholder="Enter your Full name" required>

<label>Father's Name</label>
<input type="text" placeholder="Enter your Father's name" required>

<label>Mother's Name</label>
<input type="text" placeholder="Enter your Mother's name" required>

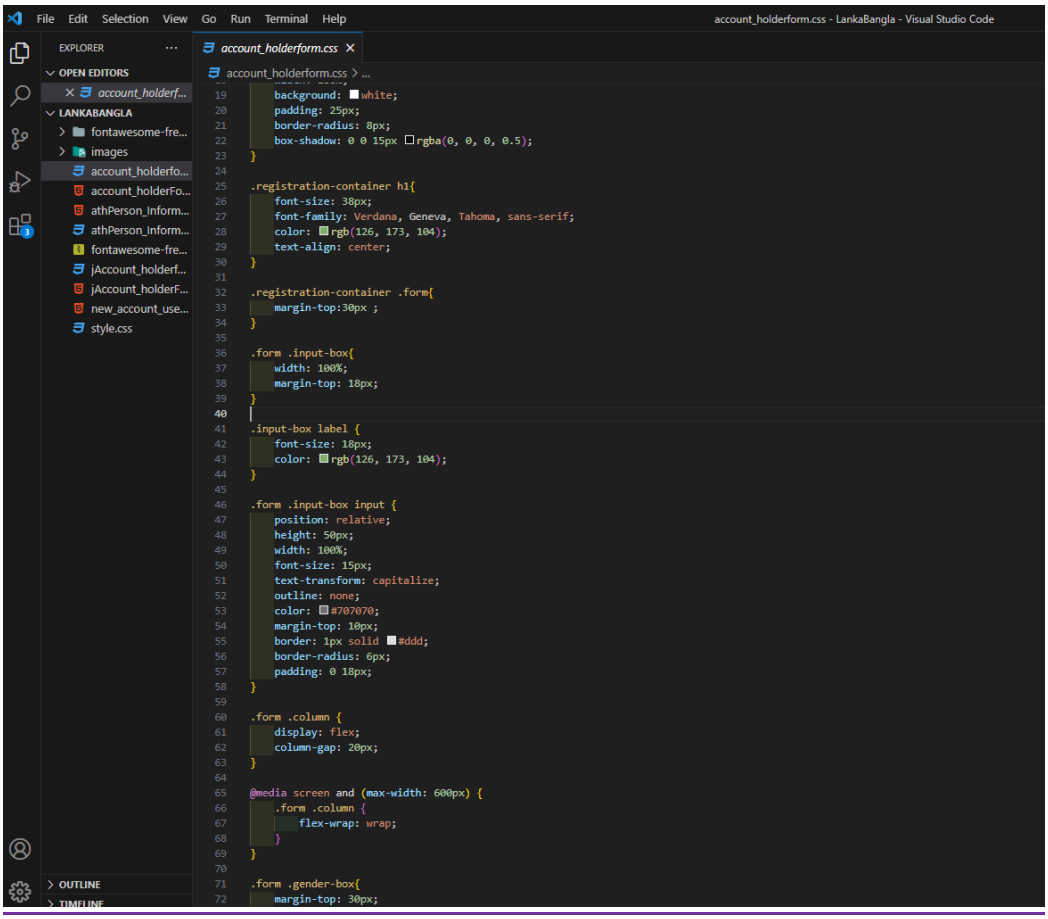
<label>Occupation</label>
<input type="text" placeholder="Your Occupation" required>

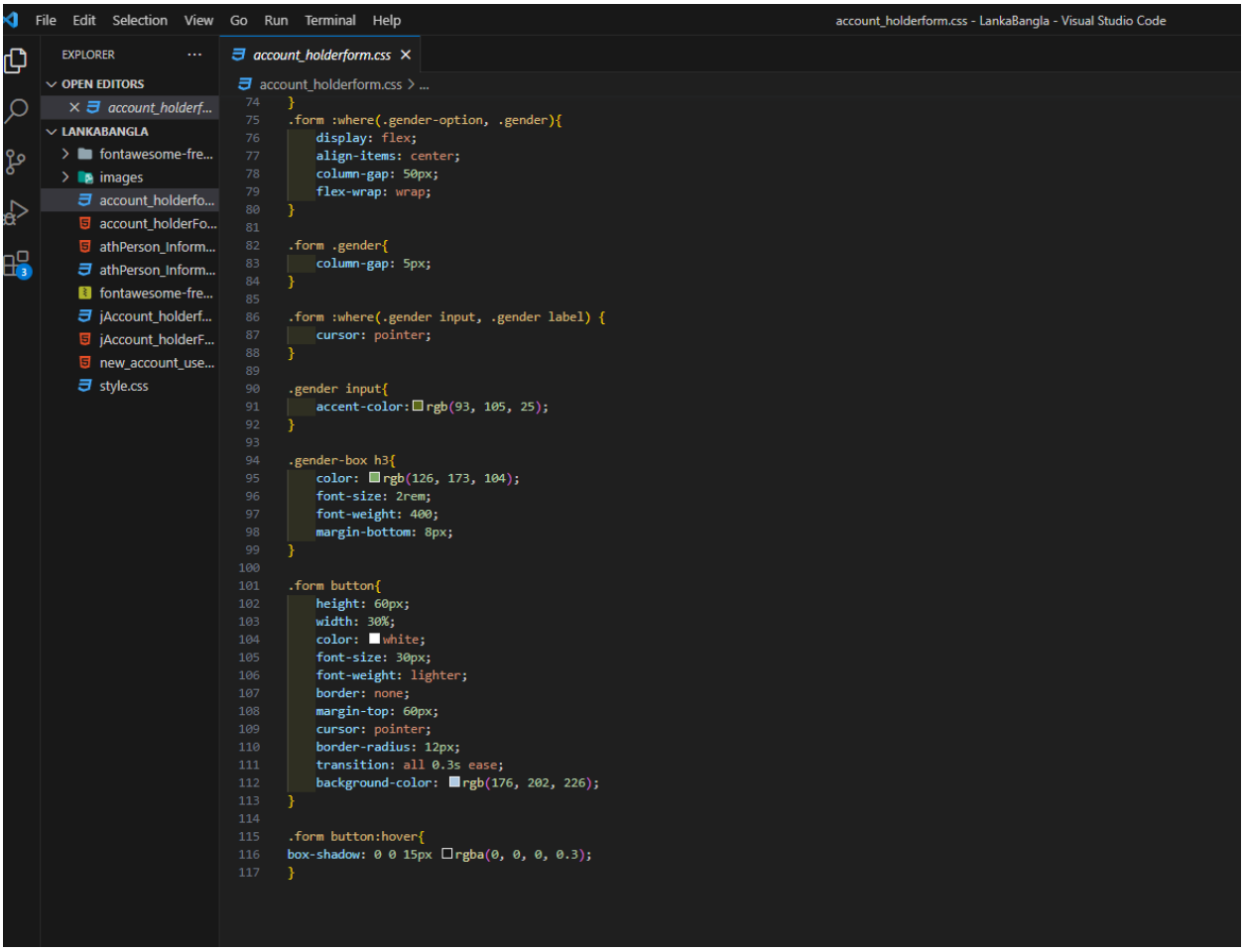
<label>Email ID</label>
<input type="email" placeholder="Enter your Email address" required>

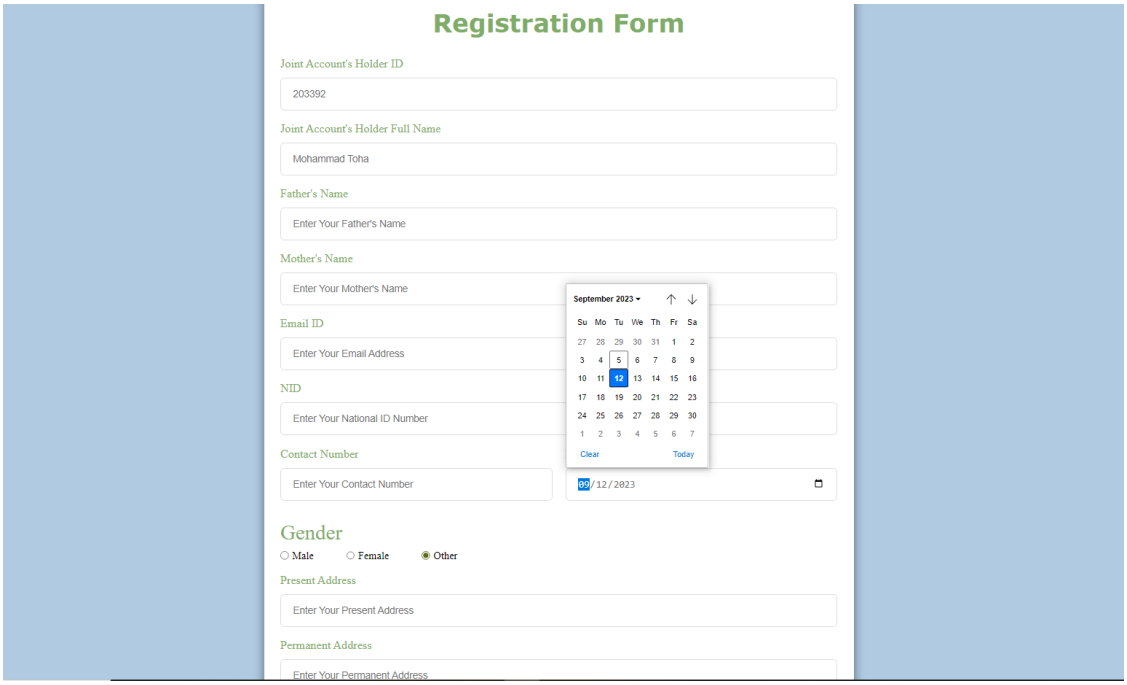
<label>NID</label>
<input type="number" placeholder="Enter your National ID number" required>

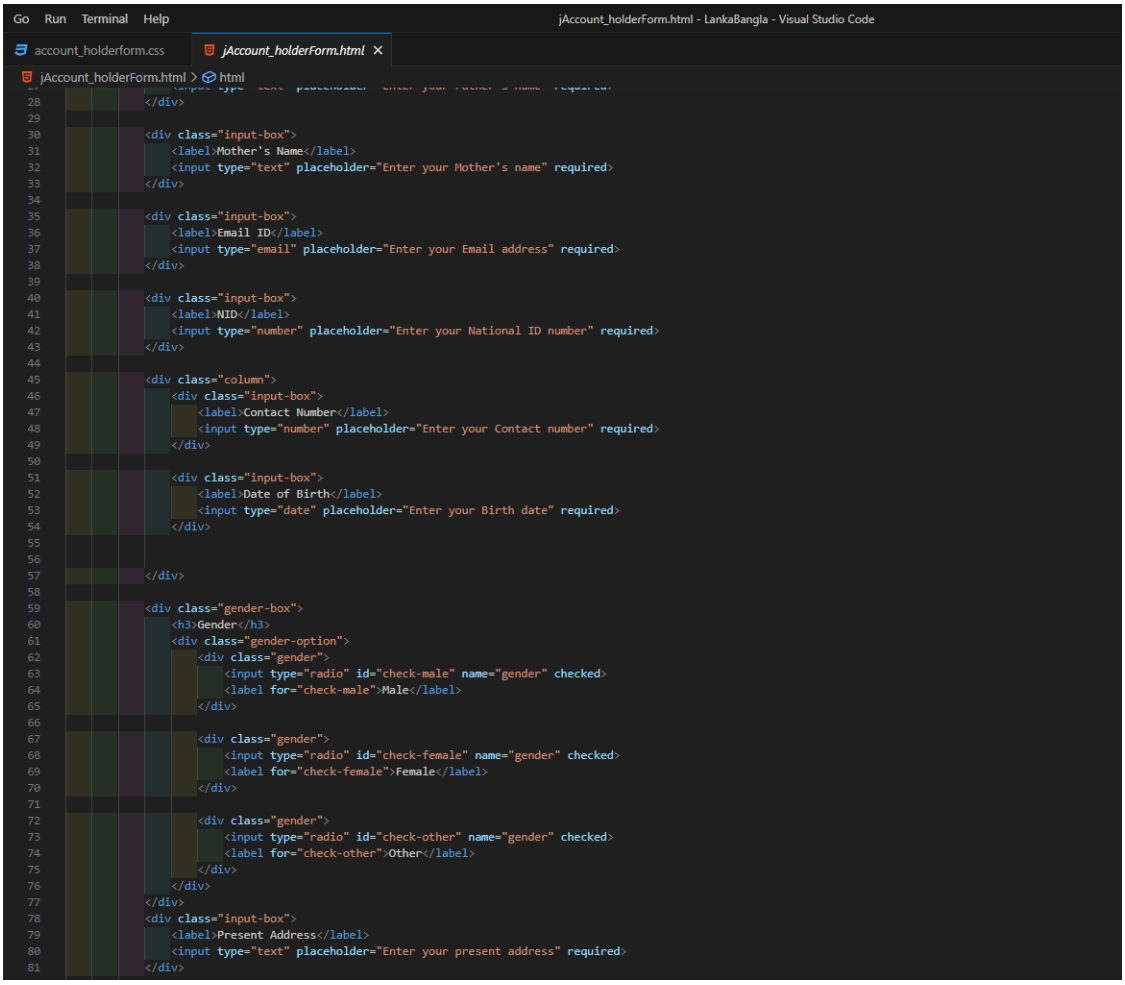
<label>Contact Number</label>
<input type="number" placeholder="Enter your Contact number" required>

OUTLINE
TIMELINE


File Edit Selection View Go Run Terminal Help
account_holderform.css - LankaBangla - Visual Studio Code
EXPLORER
account_holderform.css
account_holderform.css > ...
background: white;
padding: 25px;
border-radius: 8px;
box-shadow: 0 0 15px rgba(0, 0, 0, 0.5);
}
.registration-container h1{
font-size: 38px;
font-family: Verdana, Geneva, Tahoma, sans-serif;
color: rgb(126, 173, 104);
text-align: center;
}
.registration-container .form{
margin-top:30px ;
}
.form .input-box{
width: 100%;
margin-top: 18px;
}
.input-box label {
font-size: 18px;
color: rgb(126, 173, 104);
}
.form .input-box input {
position: relative;
height: 50px;
width: 100%;
font-size: 15px;
text-transform: capitalize;
outline: none;
color: #707070;
margin-top: 10px;
border: 1px solid #ddd;
border-radius: 6px;
padding: 0 18px;
}
.form .column {
display: flex;
column-gap: 20px;
}
@media screen and (max-width: 600px) {
.form .column {
flex-wrap: wrap;
}
}
.form .gender-box{
margin-top: 30px;
OUTLINE
TIMELINE


File Edit Selection View Go Run Terminal Help
account_holderform.css - LankaBangla - Visual Studio Code
EXPLORER
OPEN EDITORS
account_holderf...
LANKABANGLA
fontawesome-fre...
images
account_holderfo...
account_holderFo...
athPerson_Inform...
athPerson_Inform...
fontawesome-fre...
jAccount_holderf...
jAccount_holderF...
new_account_use...
style.css
account_holderform.css
account_holderform.css > ...
}
.form :where(.gender-option, .gender){
display: flex;
align-items: center;
column-gap: 50px;
flex-wrap: wrap;
}
.form .gender{
column-gap: 5px;
}
.form :where(.gender input, .gender label) {
cursor: pointer;
}
.gender input{
accent-color: rgb(93, 105, 25);
}
.gender-box h3{
color: rgb(126, 173, 104);
font-size: 2rem;
font-weight: 400;
margin-bottom: 8px;
}
.form button{
height: 60px;
width: 30%;
color: white;
font-size: 30px;
font-weight: lighter;
border: none;
margin-top: 60px;
cursor: pointer;
border-radius: 12px;
transition: all 0.3s ease;
background-color: rgb(176, 202, 226);
}
.form button:hover{
box-shadow: 0 0 15px rgba(0, 0, 0, 0.3);
}


Registration Form
Joint Account's Holder ID
203392
Joint Account's Holder Full Name
Mohammad Toha
Father's Name
Enter Your Father's Name
Mother's Name
Enter Your Mother's Name
Email ID
Enter Your Email Address
NID
Enter Your National ID Number
Contact Number
Enter Your Contact Number
September 2023
Su Mo Tu We Th Fr Sa
Clear
Today
dd/12/2023
Gender
Male
Female
Other
Present Address
Enter Your Present Address
Permanent Address
Enter Your Permanent Address


Go Run Terminal Help
jAccount_holderForm.html - LankaBangla - Visual Studio Code
account_holderform.css
jAccount_holderForm.html
jAccount_holderForm.html > html

<label>Mother's Name</label>
<input type="text" placeholder="Enter your Mother's name" required>

<label>Email ID</label>
<input type="email" placeholder="Enter your Email address" required>

<label>NID</label>
<input type="number" placeholder="Enter your National ID number" required>

<label>Contact Number</label>
<input type="number" placeholder="Enter your Contact number" required>

<label>Date of Birth</label>
<input type="date" placeholder="Enter your Birth date" required>

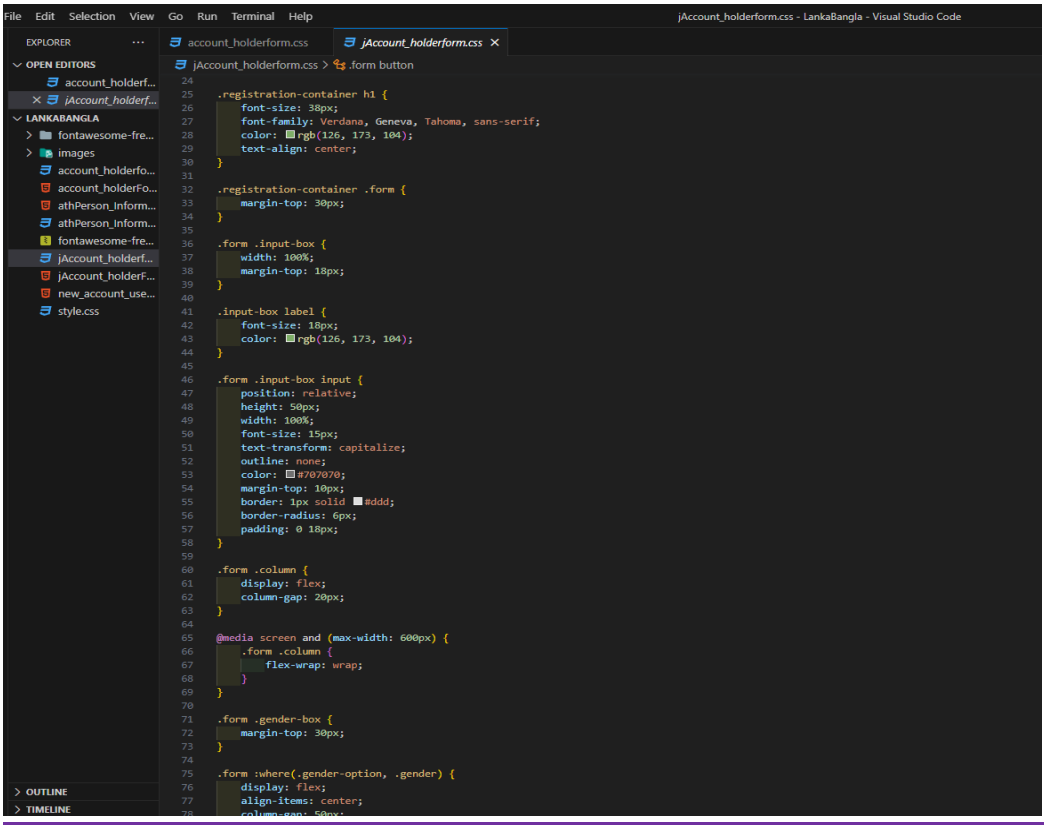
<h3>Gender</h3>

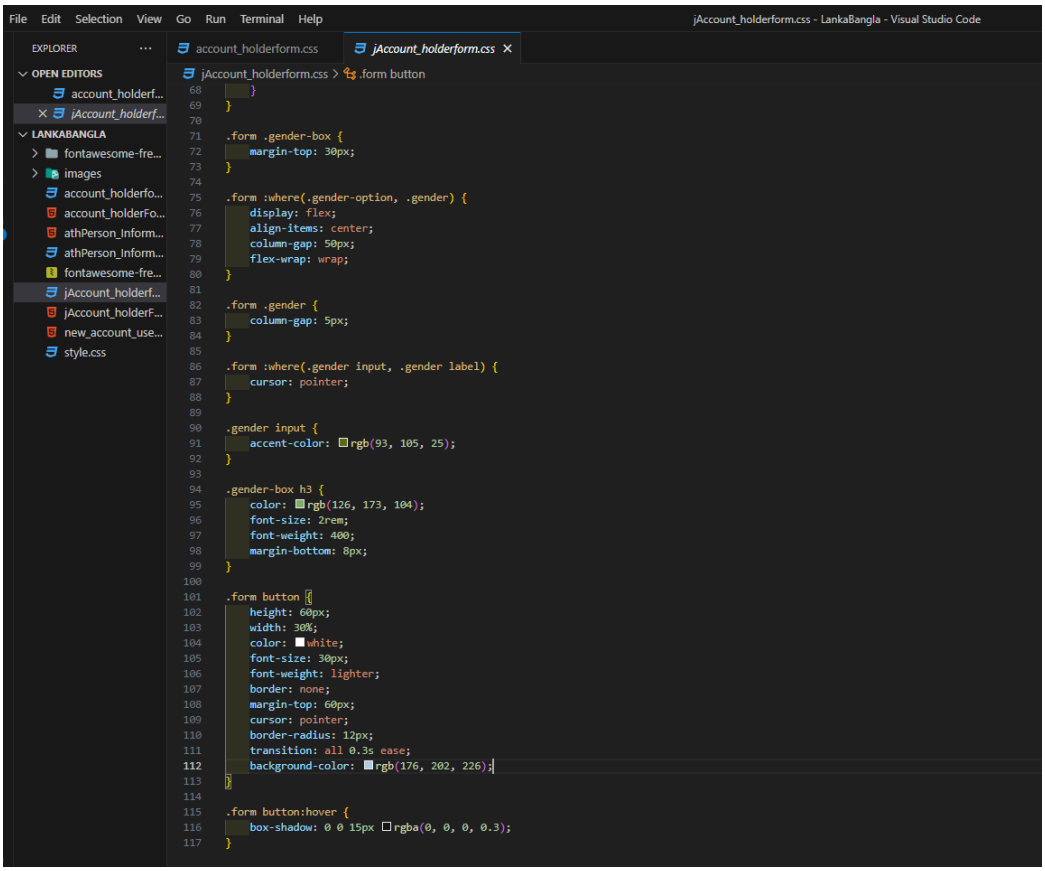
<input type="radio" id="check-male" name="gender" checked>
<label for="check-male">Male</label>

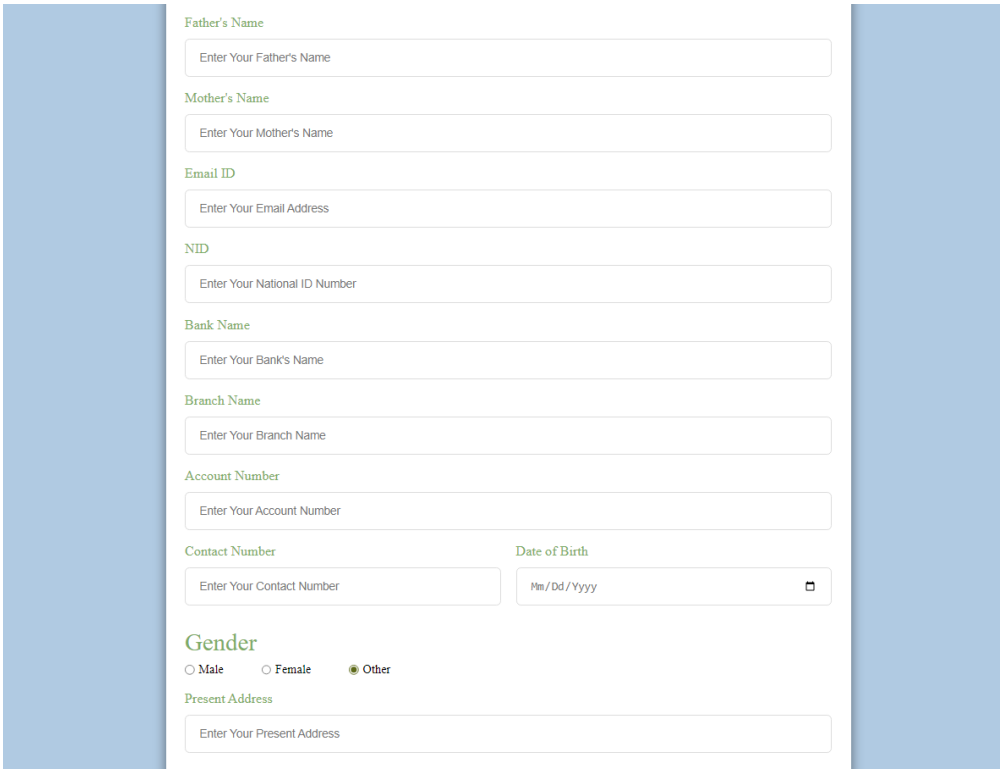
<input type="radio" id="check-female" name="gender" checked>
<label for="check-female">Female</label>

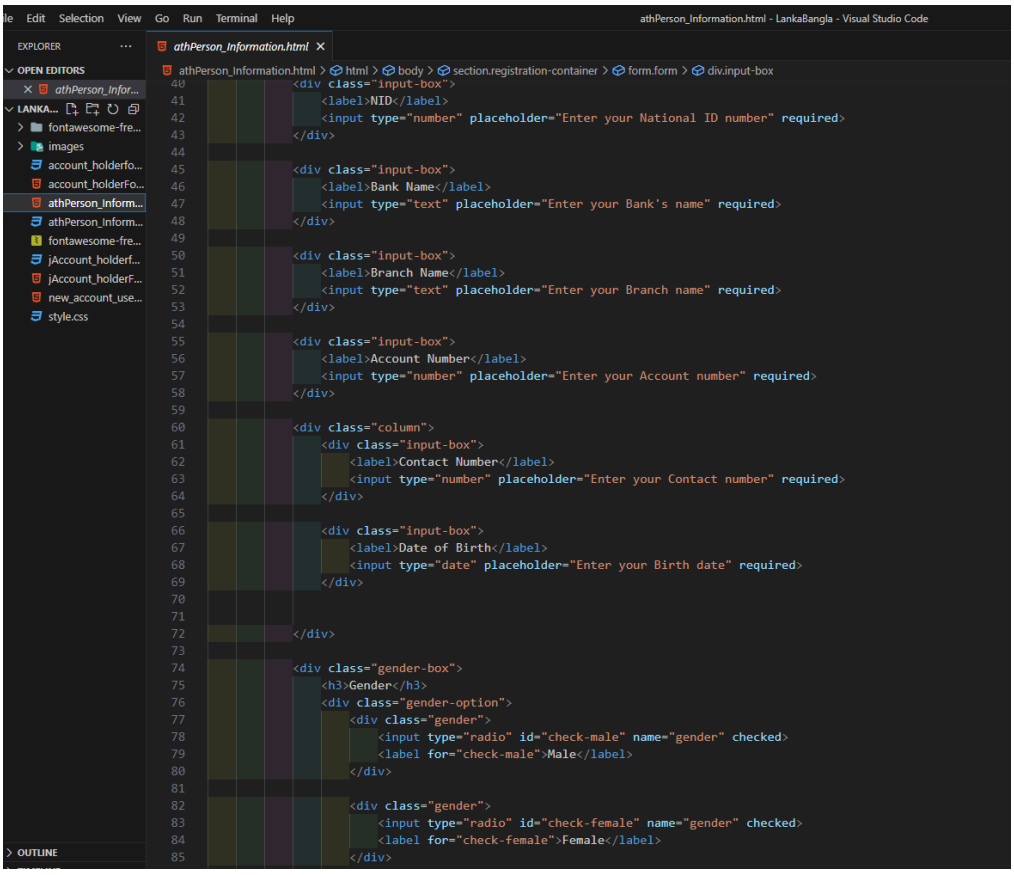
<input type="radio" id="check-other" name="gender" checked>
<label for="check-other">Other</label>

<label>Present Address</label>
<input type="text" placeholder="Enter your present address" required>

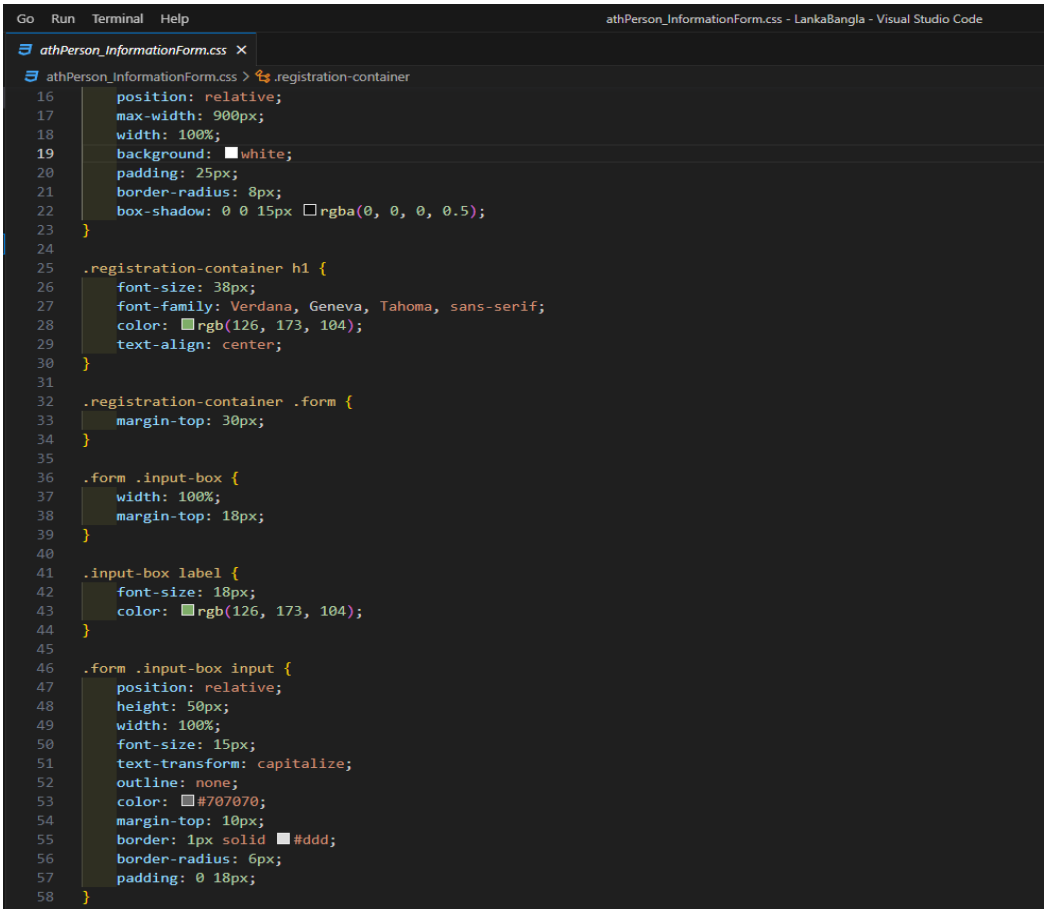

File Edit Selection View Go Run Terminal Help
jAccount_holderform.css - LankaBangla - Visual Studio Code
EXPLORER
account_holderform.css
jAccount_holderform.css
jAccount_holderform.css > .form button
OPEN EDITORS
LANKABANGLA
fontawesome-fre...
images
account_holderfo...
account_holderFo...
athPerson_Inform...
athPerson_Inform...
fontawesome-fre...
jAccount_holderf...
jAccount_holderF...
new_account_use...
style.css
OUTLINE
TIMELINE
.registration-container h1 {
font-size: 38px;
font-family: Verdana, Geneva, Tahoma, sans-serif;
color: rgb(126, 173, 104);
text-align: center;
}
.registration-container .form {
margin-top: 30px;
}
.form .input-box {
width: 100%;
margin-top: 18px;
}
.input-box label {
font-size: 18px;
color: rgb(126, 173, 104);
}
.form .input-box input {
position: relative;
height: 50px;
width: 100%;
font-size: 15px;
text-transform: capitalize;
outline: none;
color: #707070;
margin-top: 10px;
border: 1px solid #ddd;
border-radius: 6px;
padding: 0 18px;
}
.form .column {
display: flex;
column-gap: 20px;
}
@media screen and (max-width: 600px) {
.form .column {
flex-wrap: wrap;
}
}
.form .gender-box {
margin-top: 30px;
}
.form :where(.gender-option, .gender) {
display: flex;
align-items: center;

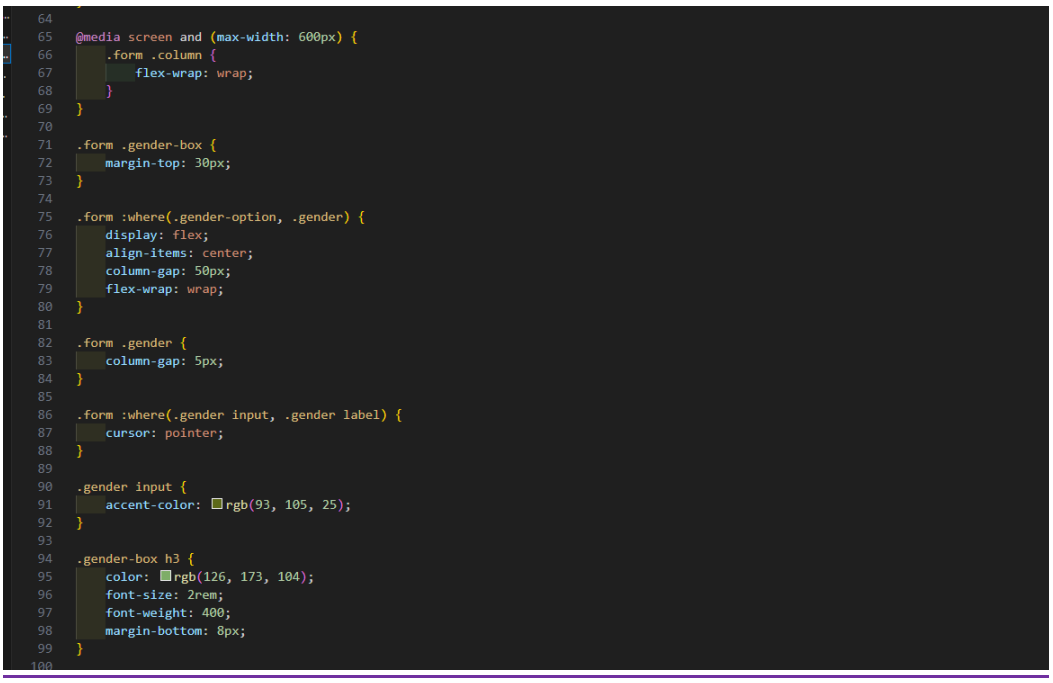

File Edit Selection View Go Run Terminal Help
jAccount_holderform.css - LankaBangla - Visual Studio Code
EXPLORER
account_holderform.css
jAccount_holderform.css
jAccount_holderform.css > .form button
OPEN EDITORS
LANKABANGLA
fontawesome-fre...
images
account_holderfo...
account_holderFo...
athPerson_Inform...
athPerson_Inform...
fontawesome-fre...
jAccount_holderf...
jAccount_holderF...
new_account_use...
style.css
}
}
.form .gender-box {
margin-top: 30px;
}
.form :where(.gender-option, .gender) {
display: flex;
align-items: center;
column-gap: 50px;
flex-wrap: wrap;
}
.form .gender {
column-gap: 5px;
}
.form :where(.gender input, .gender label) {
cursor: pointer;
}
.gender input {
accent-color: rgb(93, 105, 25);
}
.gender-box h3 {
color: rgb(126, 173, 104);
font-size: 2rem;
font-weight: 400;
margin-bottom: 8px;
}
.form button {
height: 60px;
width: 30%;
color: white;
font-size: 30px;
font-weight: lighter;
border: none;
margin-top: 60px;
cursor: pointer;
border-radius: 12px;
transition: all 0.3s ease;
background-color: rgb(176, 202, 226);
}
.form button:hover {
box-shadow: 0 0 15px rgba(0, 0, 0, 0.3);
}


Father's Name
Enter Your Father's Name
Mother's Name
Enter Your Mother's Name
Email ID
Enter Your Email Address
NID
Enter Your National ID Number
Bank Name
Enter Your Bank's Name
Branch Name
Enter Your Branch Name
Account Number
Enter Your Account Number
Contact Number
Enter Your Contact Number
Date of Birth
Mm/Dd/Yyyy
Gender
Male
Female
Other
Present Address
Enter Your Present Address


athPerson_Information.html - LankaBangla - Visual Studio Code
athPerson_Information.html

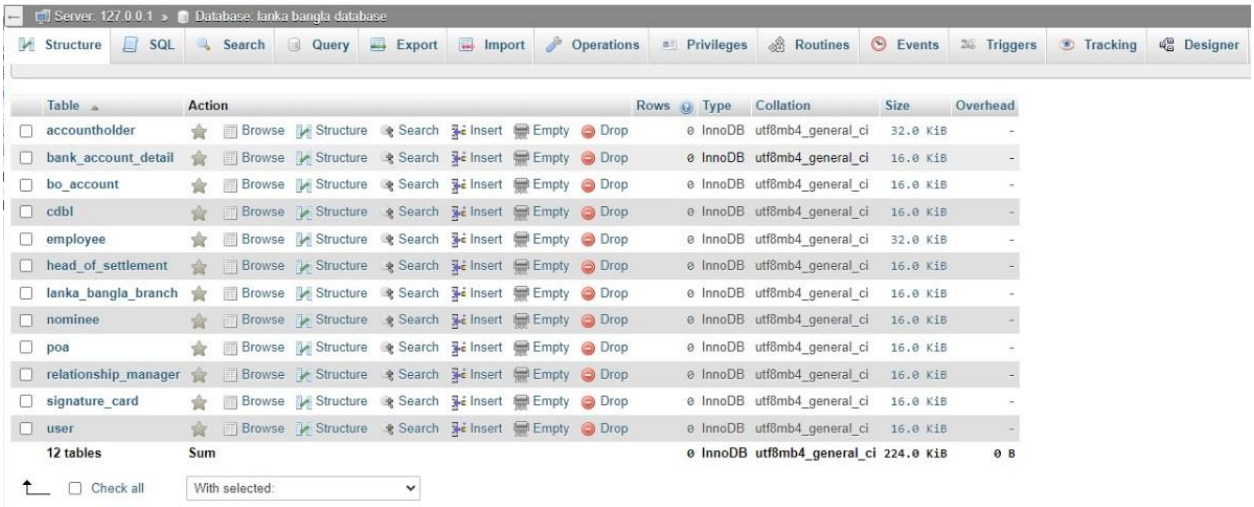
<label>NID</label>
<input type="number" placeholder="Enter your National ID number" required>
<label>Bank Name</label>
<input type="text" placeholder="Enter your Bank's name" required>
<label>Branch Name</label>
<input type="text" placeholder="Enter your Branch name" required>
<label>Account Number</label>
<input type="number" placeholder="Enter your Account number" required>
<label>Contact Number</label>
<input type="number" placeholder="Enter your Contact number" required>
<label>Date of Birth</label>
<input type="date" placeholder="Enter your Birth date" required>
<h3>Gender</h3>
<input type="radio" id="check-male" name="gender" checked>
<label for="check-male">Male</label>
<input type="radio" id="check-female" name="gender" checked>
<label for="check-female">Female</label>


Go Run Terminal Help
athPerson_InformationForm.css - LankaBangla - Visual Studio Code
athPerson_InformationForm.css
athPerson_InformationForm.css > .registration-container
position: relative;
max-width: 900px;
width: 100%;
background: white;
padding: 25px;
border-radius: 8px;
box-shadow: 0 0 15px rgba(0, 0, 0, 0.5);
}
.registration-container h1 {
font-size: 38px;
font-family: Verdana, Geneva, Tahoma, sans-serif;
color: rgb(126, 173, 104);
text-align: center;
}
.registration-container .form {
margin-top: 30px;
}
.form .input-box {
width: 100%;
margin-top: 18px;
}
.input-box label {
font-size: 18px;
color: rgb(126, 173, 104);
}
.form .input-box input {
position: relative;
height: 50px;
width: 100%;
font-size: 15px;
text-transform: capitalize;
outline: none;
color: #707070;
margin-top: 10px;
border: 1px solid #ddd;
border-radius: 6px;
padding: 0 18px;
}


@media screen and (max-width: 600px) {
.form .column {
flex-wrap: wrap;
}
}
.form .gender-box {
margin-top: 30px;
}
.form :where(.gender-option, .gender) {
display: flex;
align-items: center;
column-gap: 50px;
flex-wrap: wrap;
}
.form .gender {
column-gap: 5px;
}
.form :where(.gender input, .gender label) {
cursor: pointer;
}
.gender input {
accent-color: rgb(93, 105, 25);
}
.gender-box h3 {
color: rgb(126, 173, 104);
font-size: 2rem;
font-weight: 400;
margin-bottom: 8px;
}

B. Output Form:

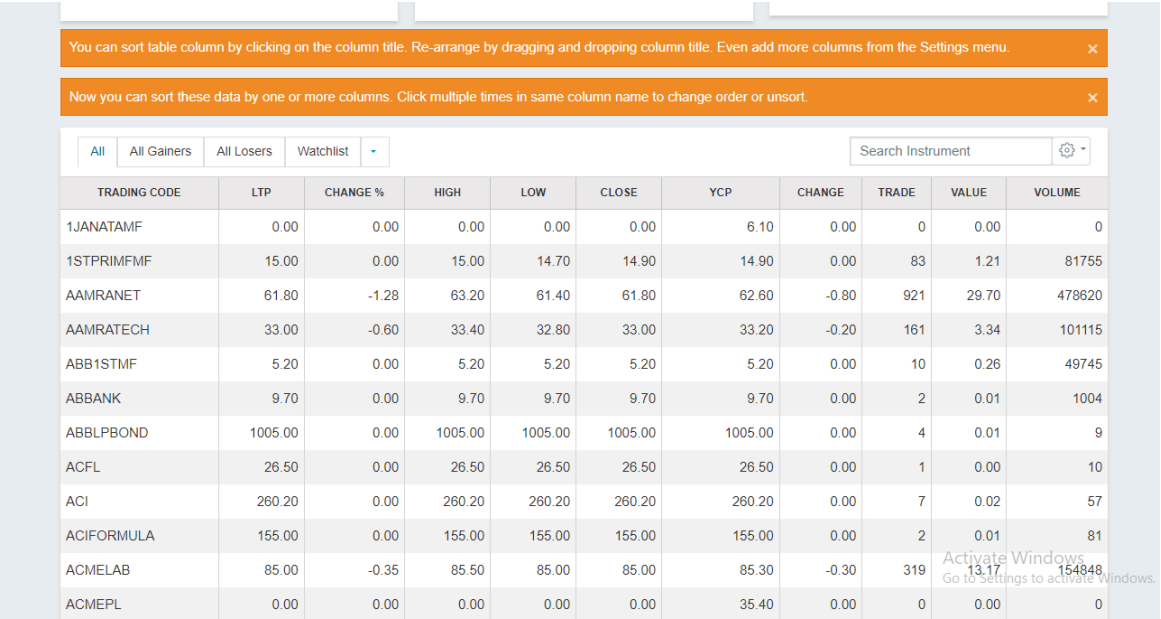
SQL:




```
-- Create Relationship_Manager table
CREATE TABLE Relationship_Manager (
    rmID INT PRIMARY KEY,
    rmName VARCHAR(30),
    rmContact VARCHAR(15),
    rmEmail VARCHAR(30),
    HOS_ID INT
);

-- Create User table
CREATE TABLE User (
    userID INT PRIMARY KEY,
    rmID INT,
    name VARCHAR(30),
    title VARCHAR(30),
    gender CHAR(1),
    email VARCHAR(30),
    fatherName VARCHAR(30),
    motherName VARCHAR(30),
    permanentAddress TEXT,
    presentAddress TEXT,
    Phone VARCHAR(15),
    FOREIGN KEY (rmID) REFERENCES Relationship_Manager(rmID)
);
```

```
-- Create ACCOUNTHOLDER table
CREATE TABLE ACCOUNTHOLDER (
    NID INT PRIMARY KEY,
    AH_userID INT,
    permanentCity VARCHAR(30),
    presentCity VARCHAR(30),
    permanentCountry VARCHAR(30),
    presentCountry VARCHAR(30),
    occupation VARCHAR(30),
    boNumber VARCHAR(15)
);

-- Create EMPLOYEE table
CREATE TABLE EMPLOYEE (
    employeeID INT PRIMARY KEY,
    AH_userID INT,
    employeeDesignation VARCHAR(30),
    employeeNID INT
    FOREIGN KEY (AH_userID) REFERENCES ACCOUNTHOLDER(AH_userID)
);

-- Create HEAD_OF_SETTLEMENT table
CREATE TABLE HEAD_OF_SETTLEMENT (
    HOS_id INT PRIMARY KEY,
    HOS_name VARCHAR(30)
);

-- Create LANKA_BANGLA_BRANCH table
CREATE TABLE LANKA_BANGLA_BRANCH (
    LBbranchID INT PRIMARY KEY,
    boNumber VARCHAR(15),
    HOS_id INT,
    AH_userID INT,
    LBbranchType VARCHAR(30),
    LBbranchName VARCHAR(30)
    FOREIGN KEY (AH_userID) REFERENCES ACCOUNTHOLDER(AH_userID)
    FOREIGN KEY (boNumber) REFERENCES ACCOUNTHOLDER(boNumber)
);

-- Create CDBL table
CREATE TABLE CDBL (
    participantID INT PRIMARY KEY,
    participantName VARCHAR(30)
);

-- Create BANK_ACCOUNT_DETAIL table
```

```
CREATE TABLE BANK_ACCOUNT_DETAIL (
    bankAccountNumber VARCHAR(30) PRIMARY KEY,
    bankName VARCHAR(30),
    branchName VARCHAR(30),
    routingNumber VARCHAR(30)
);

-- Create POA table
CREATE TABLE POA (
    POA_NID INT PRIMARY KEY,
    POA_name VARCHAR(30),
    POA_city VARCHAR(30),
    POA_permanentCountry VARCHAR(30),
    POA_presentCountry VARCHAR(30),
    AH_userID INT
    FOREIGN KEY (AH_userID) REFERENCES ACCOUNTHOLDER(AH_userID)
);

-- Create NOMINEE table
CREATE TABLE NOMINEE (
    Nom_NID INT PRIMARY KEY,
    NomDesignation VARCHAR(30),
    city VARCHAR(30),
    state VARCHAR(30),
    postalCode VARCHAR(15),
    country VARCHAR(30),
    nationality VARCHAR(30),
    percentageOwnership DECIMAL(5, 2),
    relationshipWithOwner VARCHAR(30),
    AH_userID INT
    FOREIGN KEY (AH_userID) REFERENCES ACCOUNTHOLDER(AH_userID)
);

-- Create SIGNATURE_CARD table
CREATE TABLE SIGNATURE_CARD (
    accountNumber VARCHAR(30) PRIMARY KEY,
    boNumber VARCHAR(15),
    firstApplicantSig VARCHAR(30),
    secondApplicantSig VARCHAR(30),
    nomineeSig VARCHAR(30),
    AH_userID INT
    FOREIGN KEY (AH_userID) REFERENCES ACCOUNTHOLDER(AH_userID)
);
```



TRADING CODE	LTP	CHANGE %	HIGH	LOW	CLOSE	YCP	CHANGE	TRADE	VALUE	VOLUME
1JANATAMF	0.00	0.00	0.00	0.00	0.00	6.10	0.00	0	0.00	0
1STPRIMFMF	15.00	0.00	15.00	14.70	14.90	14.90	0.00	83	1.21	81755
AAMRANET	61.80	-1.28	63.20	61.40	61.80	62.60	-0.80	921	29.70	478620
AAMRATECH	33.00	-0.60	33.40	32.80	33.00	33.20	-0.20	161	3.34	101115
ABB1STMF	5.20	0.00	5.20	5.20	5.20	5.20	0.00	10	0.26	49745
ABBANK	9.70	0.00	9.70	9.70	9.70	9.70	0.00	2	0.01	1004
ABBLPBOND	1005.00	0.00	1005.00	1005.00	1005.00	1005.00	0.00	4	0.01	9
ACFL	26.50	0.00	26.50	26.50	26.50	26.50	0.00	1	0.00	10
ACI	260.20	0.00	260.20	260.20	260.20	260.20	0.00	7	0.02	57
ACIFORMULA	155.00	0.00	155.00	155.00	155.00	155.00	0.00	2	0.01	81
ACMELAB	85.00	-0.35	85.50	85.00	85.00	85.30	-0.30	319	13.17	154848
ACMEPL	0.00	0.00	0.00	0.00	0.00	35.40	0.00	0	0.00	0

Activate Windows
Go to Settings to activate Windows.

Login System

Sign Up Complete. Please Log in now.

Email:

Enter your email

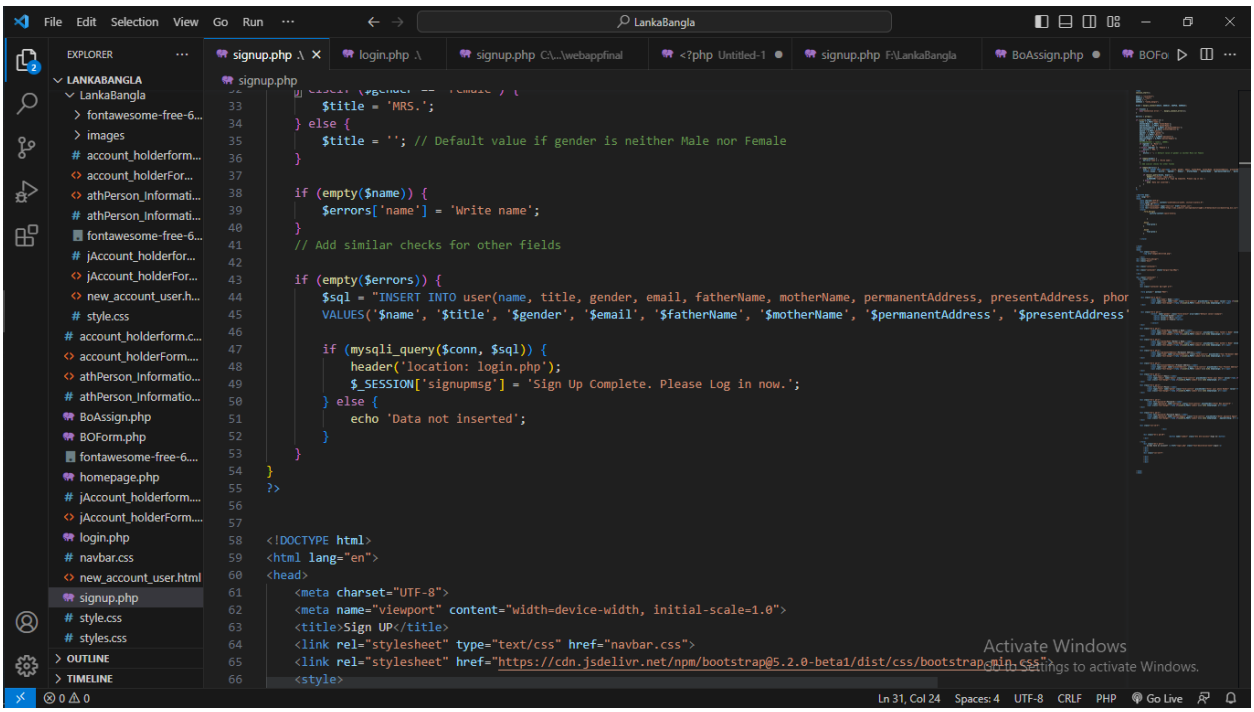
Password:

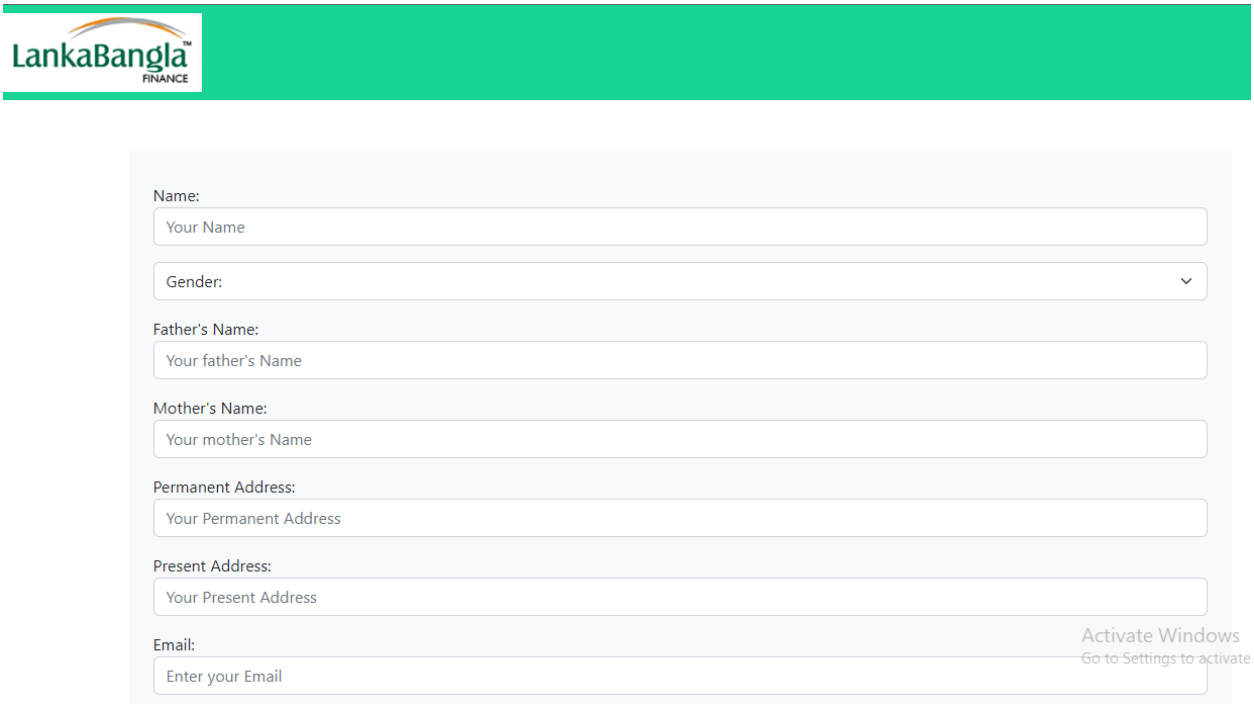
Enter your password

Login

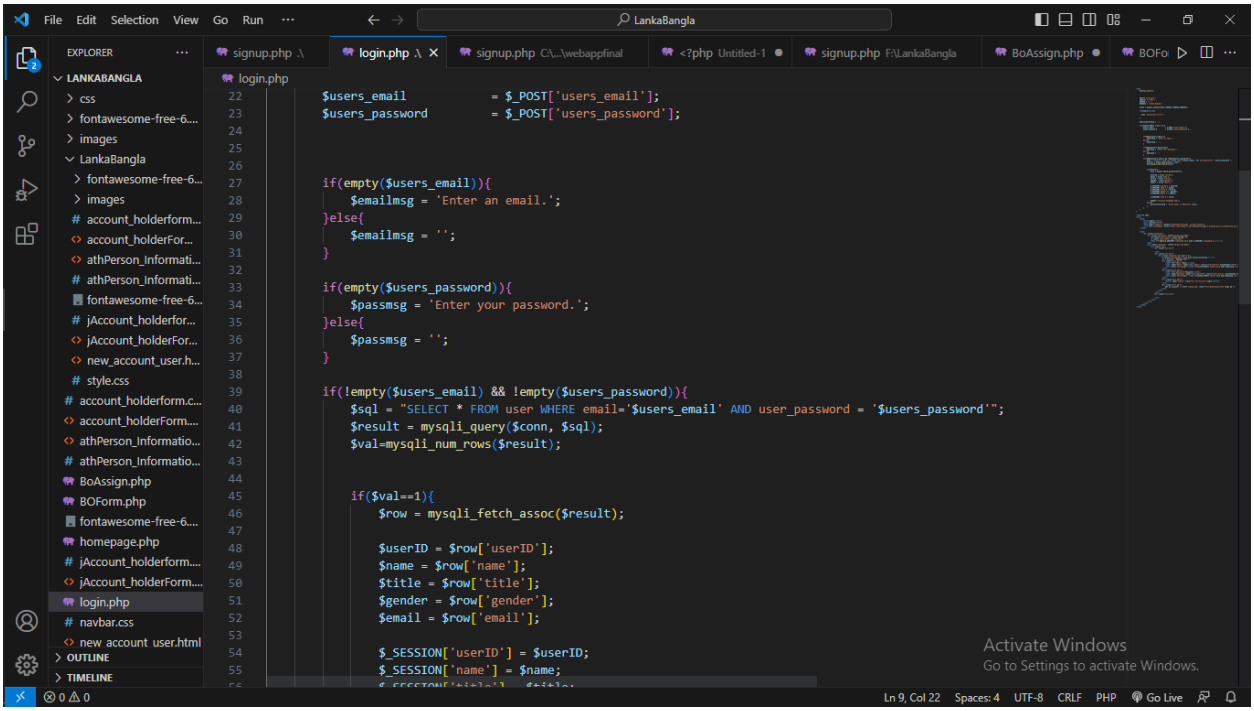
Not an account? Sign Up

Activate Windows
Go to Settings to activate Wi




LankaBangla FINANCE
Name:
Your Name
Gender:
Father's Name:
Your father's Name
Mother's Name:
Your mother's Name
Permanent Address:
Your Permanent Address
Present Address:
Your Present Address
Email:
Enter your Email
Activate Windows
Go to Settings to activate

Your father's Name
Mother's Name:
Your mother's Name
Permanent Address:
Your Permanent Address
Present Address:
Your Present Address
Email:
Enter your Email
Phone:
Enter your phone Number
Password:
Enter New password
Password Again:
Enter password Again
Sign In
Alrady have an account? Login
Activate Windows
Go to Settings to activate Windows.


File Edit Selection View Go Run
LankaBangla
EXPLORER
LANKABANGLA
signup.php
login.php
signup.php C:\...\webappfinal
<?php Untitled-1
signup.php F:\LankaBangla
BoAssign.php
BOFo
login.php
$users_email = $_POST['users_email'];
$users_password = $_POST['users_password'];
if(empty($users_email)){
$emailmsg = 'Enter an email.';
}else{
$emailmsg = '';
}
if(empty($users_password)){
$passmsg = 'Enter your password.';
}else{
$passmsg = '';
}
if(!empty($users_email) && !empty($users_password)){
$sql = "SELECT * FROM user WHERE email='$users_email' AND user_password = '$users_password'";
$result = mysqli_query($conn, $sql);
$val=mysqli_num_rows($result);
if($val==1){
$row = mysqli_fetch_assoc($result);
$userID = $row['userID'];
$name = $row['name'];
$title = $row['title'];
$gender = $row['gender'];
$email = $row['email'];
$_SESSION['userID'] = $userID;
$_SESSION['name'] = $name;
Activate Windows
Go to Settings to activate Windows.
Ln 9, Col 22 Spaces: 4 UTF-8 CRLF PHP Go Live

Chapter 5: CONCLUSION

Problems And Solutions :

Building upon project on Lanka Bangla developers, most of the work assumptions and queries were made while working on the rich picture and six element analysis of operations of the organization as there was no discreet data present or sufficient resources. For a better understanding scenario and to overcome such confusions, interviews were made.

Based upon descriptive research created entities were kept at their Significant levels, which was also introduced in ERD & Relational Schema schematic. Instructor's feedback and our group discussions played a very valid role here as well.

All the Software System Requirement's reached successfully!
Front-End Developing tools: HTML, CSS .
Back End Developing tools: PHP.

Additional Features And Future Development :

1. **Digital Banking**: Many financial institutions worldwide are expanding their digital footprints to cater to a younger, tech-savvy demographic. This includes mobile banking apps with features like digital wallets, real-time account tracking, and online customer service.

2. **Financial Inclusion**: In many developing countries, a significant part of the population remains unbanked. Financial products targeting these segments, often leveraging mobile technology, can be a significant growth avenue.

3. **Cybersecurity**: With the increasing digitization of financial services, cybersecurity has become paramount. Financial institutions are continuously looking to bolster their cyber defenses and develop best practices in this domain.

4. **Partnerships and Collaborations**: Many traditional financial institutions are looking to collaborate with fintech startups to leverage their innovative solutions and deliver enhanced services to their clients.

5. **Training and Development**: To keep up with the rapid pace of change, financial institutions are investing in training their workforce in emerging technologies and new industry trends.

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[2] https://www.lankabangla.com/

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THE END