

CSE303

Database Management System

FINAL REPORT

LankaBangla Securities System

Group - 9

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CHAPTER 1 INTRODUCTION

Background of the organization

Lanka Bangla is a leading trading company in Bangladesh with a focus on providing an array of financial services to its diverse clientele. Established with the goal of being a cornerstone in the financial sector, Lanka Bangla has carved out a reputation for reliability, transparency, and regulatory compliance. It operates under stringent guidelines and oversight, ensuring the highest levels of customer satisfaction.

Background of the project

As part of our continuous effort to enhance customer experience and adapt to technological advancements, we have undertaken the project of building Lanka Bangla's new website. While the previous platform served its purpose, it became necessary to develop a new, more functional, and secure website that could cater to the sophisticated needs of our modern customer base.

Objective of the project

The primary objectives of this website redevelopment initiative are as follows:

- 1. To create a secure, user-friendly, and efficient platform for financial trading and account management.
- 2. To streamline the multi-stage account creation process, from general customer accounts to specialized BO accounts.
- 3. To integrate seamless verification processes carried out by our Relationship Managers and Head of Settlement.

Scope of the project

The project encompasses several critical aspects:

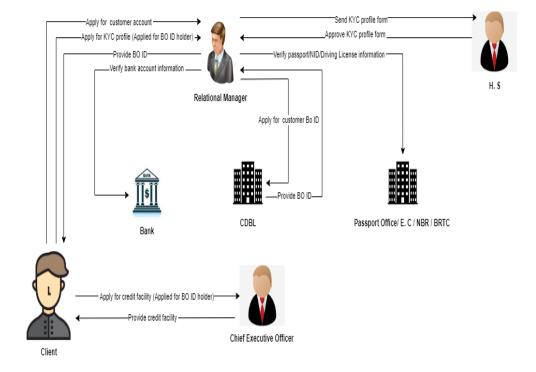
1. **Two-Stage Account Creation**: Implement a two-step procedure where customers initially fill out a basic customer account form, followed by the completion of a BO account form.

- 2. **BO ID Generation**: Incorporate an automated feature for allocating BO IDs via CDBL (Central Depository Bangladesh Limited).
- 3. **KYC and Value-Added Services**: Introduce a system that allows customers to easily submit their KYC information and opt for value-added services securely online.
- 4. **Power of Attorney and Multiple Nominees**: Create a dedicated section for users to add or modify Power of Attorney details and appoint multiple nominees.
- Role of Relationship Managers and Head of Settlement: Integrate a backend functionality that enables Relationship Managers and the Head of Settlement to verify and approve customer information, thus finalizing the account creation process.
- 6. **Security and Compliance**: Employ industry-standard encryption techniques and security measures to protect customer data and ensure regulatory compliance.
- 7. **Customer Support**: Provide comprehensive guidelines and support channels to assist both new and existing users.

By focusing on these areas, Lanka Bangla aims to offer an unprecedented level of convenience and security to its customers, thereby solidifying its position as a leading financial institution in Bangladesh.

CHAPTER 2 Requirement Analysis

RICH PICTURE ANALYSIS (AS-IS)



H. S. = Head of Settlement of Lanka Bangla Security
E. C = Election Commission

BRTC = Bangladesh Road Transport Corporation

NBR = National Board Of Revenue

CDBL = Central Depository Bangladesh Limited

R. M. = Relational Manager of Lanka Bangla Security

SIX ELEMENT ANALYSIS(AS-IS)

Proces s	Human	Non-co mputing Hardwar e	Computi ng Hardwar e	Software	Databa se	Network and Communica tion
Apply for user account	Custom er a) Custom er fills up the account form b) Apply for credit facility c) Fillup KYC form Relation al Manage r	Pen & Paper a) Can be used for collectin g informati on.	Printer a) Used to print out the user account form	Software a) Any printing software used to print the form	N/A	N/A

	a) Review the form b) Inform custome rs about account creation success.					
Verify custome r Informat ion	Relation al Manage r a) Verify custome rs. informati on from E.C., NBR, BRTC	Pen & Paper a) Can be used for verifying informati on.	Printer a) Can be used to print copies.	Software a) Any printing software used to print the form	N/A	N/A
Applicati on approval	Relation al Manage r a) Approve the form and	Hand Written Form a) Printed copy of the	Printer a) Print out the final list of approve d	MS Excel a) Used to store Approval/disapp roval account info. Printing	Excel files a) Source of user's	Internet a) Need the internet to store and access data.

send it	handwritt	accounts	Software	informati	
to	en form		a) Any printing	on	
CDBL.			software used		
0002.	will be				
Head Of	filled up		to print the form		
Settlem			Text Editor		
ent			a) Any text		
a)			editor for		
Approve			writing. Ex:		
custome			Microsoft Word		
r KYC			I WIICIOSOIL WOIG		
profile.					
Chief					
Executi					
ve					
Officer					
a)					
Approve					
credit					
facility					
applicati					
on					
011					

PROBLEM ANALYSIS

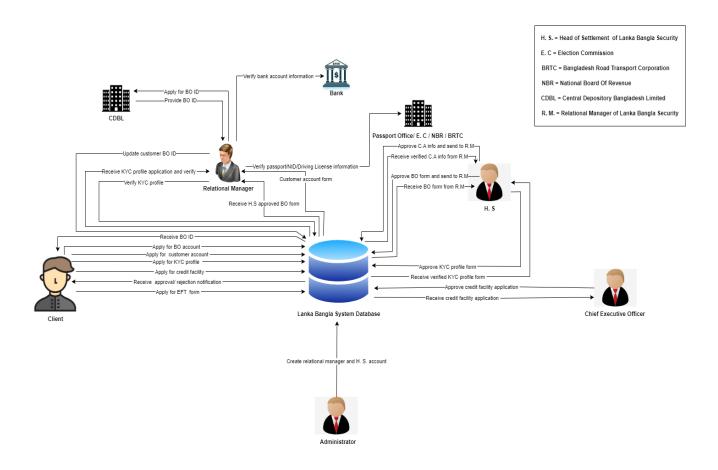
Process Name	Stakeholders	Problems	Analysis of the Problem	Propose d
				Solution
Creates	1. Client	1. Time	The account	The
user	2. Relationship	consumer	creation	manual
account	Manager	2. Attachme	process is	process
	Account Officer	nt issue	lengthy and	should be
	4. CDBL	3. Lengthy	time-consumin	converted
	5. Higher Authority	process	g because of	into a
			the handwritten	software-a
			form. The	utomated
			customer	process.
			needs to	The
			present in	software-a
			person.	utomated
			Handwritten	process
			documents can	would be
			be damaged.	less
				time-consu
				ming. All
				the
				documents
				will be
				saved in
				the
				database.
			1	

Applicatio	1. Relationship	1.Duplication of	Relational	The
n	Manager	Effort	manager,	manual
approval	2. Account Officer		Account	process
	3. CDBL	2.Delay/Waste	Officer,Higher	should be
	4. Higher Authority	Time	Authorities all	converted
		3.Accept or	reviewing and	into a
		rejection form	approving the	software-a
			same	utomated
			application,ther	process.
			e is duplication	The
			of effort.	software-a
			Confusion or	utomated
			conflicting	process
			decision.	would be
			Form can be	less
			rejected by the	time-consu
			account officer,	ming. All the
			those forms	documents
			approved by	will be
			the	saved in
			Relationship	the
			Manager with	database.
			information the	databaco.
			missing	
			customer	
			knows before.	
Notify	1. Client	1.Delay Timing	Sometimes	It is
Customer	2. Higher Authority	2.Accept or	clients get	required to
through		rejection list	notifications	switch the
Email/SM			late for manual	manual
S			processes.	procedure
				into a
				software-a

			If BO form is all right then Higher Authority accept this form but if there is any issue they might reject their form.	utomated version.Th e process that is mechanize d by software would require less time. The database will hold all of the documents .
CDBL document	CDBL Account Officer	Technical Issue	If the database system has	It is required to
verificatio	Account Officer Higher Authority		technical	switch the
n	J a start y		issues it	manual
process			rejects the	procedure
			store data.	into a
				software-a
				utomated version.Th
				e process
				that is
				mechanize
				d by
				software
				would
				require less
				time. The

		database
		will hold all
		of the
		documents.

RICH PICTURE (TO-BE)



SIX ELEMENT ANALYSIS(TO-BE)

Process	Human	Non-co	Computing	Software	Databa	Network and
		mputing	Hardware		se	Communicat
		Hardwar				ion
		е				

Registrati	Custome	N/A	Networking	Excel	System	Internet
on Into	r,		Devices		Databas	
System				a) Use to	е	a) Need
	Relation		a) Router,	collect		internet to
	al		switch, and	user's	a)	access the
	Manager,		other	information	Source	data stored
			devices use		of	
			for getting		all the	
	Head Of		internet to	Browser	data	
	Settleme		connect with	a) Any	stored in	
	nt, 		the server.	browser	the	
	a) Every			can be	databas	
	user		Computer/	used to	e.	
	registrar		Laptop	Access the		
	into the			system.	Excel	
	system.		a)		files	
			Users			
			will use		a)	
			computer/lapto		Source	
			p to get		of	
			access into the		user's	
			system.		informati	
			b) Through		on	
			computer			
			user will			
			view the			
			data.			
	Custome	N/A	Computer/	Browser	System	Internet: Used
Login	r,		Smartphone:	a)	Databas	to
Into			a) Used for	Chrome,	е	communicate
System			accessing &	firefox etc,		with
			adding/editing			LankaBangla

	Relation		data.	LankaBan	a)	system to log
	al			gla	Source	ln.
	Manager,			system	of	
					all the	
					data	
	Head Of				stored in	
	Settleme				the	
	nt,				databas	
					e.	
					Excel	
					files	
					a)	
					Source	
					of	
					user's	
					informati	
					on	
Apply	Custome	N/A	Computer/	Browser	N/A	
for user	r		Smartphone:	a)		
account	a)		a) Used for	Chrome,		
	Customer		accessing &	firefox etc,		
	fillup		adding/editing	LankaBan		
	customer		data	gla		
	account			system		
	form					
	b) Apply					
	for credit					
	facility					
	c) Fillup					
	KYC form					
	<u> </u>				<u> </u>	

Verify	Relation	N/A	Computer/	Browser	System	
custome	al		Smartphone:	a)	Databas	
r	Manager		a) Used for	Chrome,	е	
Informati	a) Verify		Accessing, verif	firefox etc,		
on	customer		ying &	LankaBan	a)	
	S.		adding/editing	gla	Source	
	informati		data	system	of	
	on from				all the	
	E.C., NBR,				data	
	BRTC				stored in	
					the	
					databas	
					е.	
Applicati	Relation	N/A	Computer/	Browser	System	Internet
on	al		Laptop/Mobile	a)	Databas	
approval	Manager		devices use	Chrome,	е	a) Need
	a)		for getting	firefox etc,		internet to
	Approve		approval	LankaBan	a)	get an email.
	the form		messages by	gla	Source	
	and send		sms/email.	system	of	
	it to				all the	
	CDBL.				data	
					stored in	
	Head Of				the	
	Settleme				databas	
	nt				e.	
	a)					
	Approve					
	customer					
	KYC					
	profile.					

Notify	Relation	N/A	Computer/	Browser	N/A	Internet
Custom	al		Laptop/Mobile	a)		
er	manager		notification	Goggole		a) Need
through				Crome,		internet to
Notificati				mozila fire		notification
on				box ect.		

CHAPTER 3 LOGICAL SYSTEM DESIGN

BUSINESS RULE

A client has a client code, title, name, email, phone no, present address, permanent address, gender, date of birth(dob), occupation, bank code, branch code, routing no, bank account no, photo, client signature, branch, eTin, opening date, father name, mother name, spouse name. Bank info holds bank code, branch code, routing no, bank account no, and client name holds title and name. A client can be a single account holder or joint account holder or company account holder at the same time. The client is uniquely identified from the client code.

A joint client account has a client code, joint title, name, email, phone no, present address, permanent address, gender, date of birth(dob), occupation, photo, client signature, branch, eTin, opening date, father name, mother name, spouse name. The joint client is uniquely identified from the client code.

A company account has a client code, joint title, name, email, phone no, present address, permanent address, gender, date of birth(dob), occupation, photo, client signature, branch, eTin, opening date, father name, mother name, spouse name. The company account is uniquely identified from the client code.

A client may apply for a BO account. BO account has an application id, introducer id, contact details, and passport. Contact details hold city, postcode, state, country, issue date, and expiration date. Passport holds passport no, issue place, issue date, expiry date. A BO account must have one client account. The BO account is uniquely identified from the application id.

Nominee have nom application id, title, name, address, phone, mobile, city, state, postcode, country code, country code, gender, dob, photo, signature, nationality, relationship, passport no, issue date, issue place, expiry date, NID, email, percentage. Nominee name holds the title and name. Passport info holds passport no, issue date, issue place, expiry date. The Nominee is uniquely identified from the nom application id. A nominee must have one or more BO accounts. A BO account may have one more nominee.

Power of attorney has id, title, name, address, city, postcode, state, country, telephone, mobile, fax, email, passport no, issue date, issue place, expiry date, nationality, dob, photo signature. Power of attorney name hold title and name. Contact holds address, city, postcode, state, country, telephone, mobile, fax, email. Passport holds passport no, issue date, issue place, expiry date. Power of attorney uniquely identify from id. Power of attorney depends on BO account. A power of attorney must have one BO account. A BO account may have a power of attorney.

EFT has id and multiple product type. EFT uniquely identifies from id. A BO account may apply an EFT and an EFT must have a BO account.

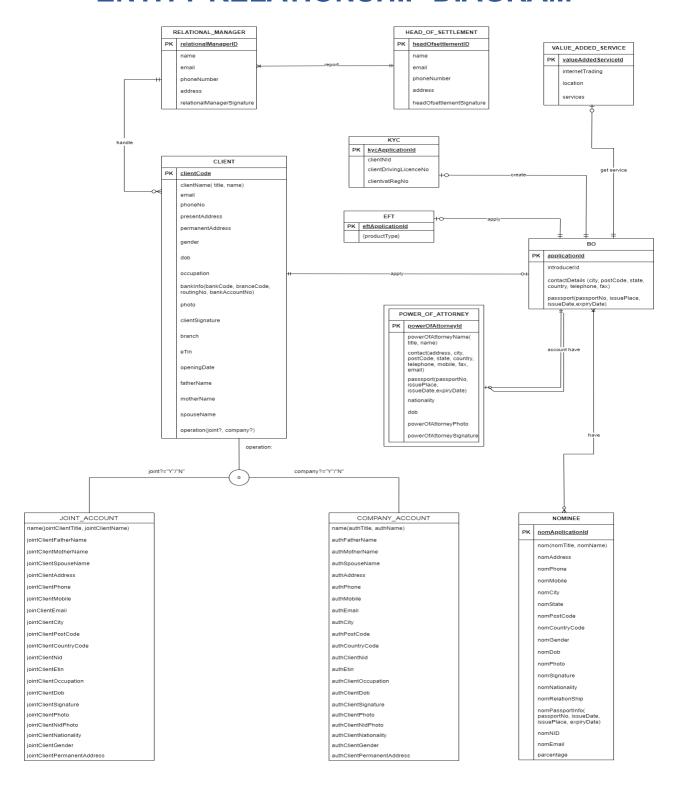
KYC has id, client NID, client driving license no, client reg no. KYC is uniquely identified from id. A KYC form must create a BO account holder. A BO account may create a KYC from.

Value added service has id, internet trading, location and services. A BO account holder may get a service and to get value added service must have a BO account holder.

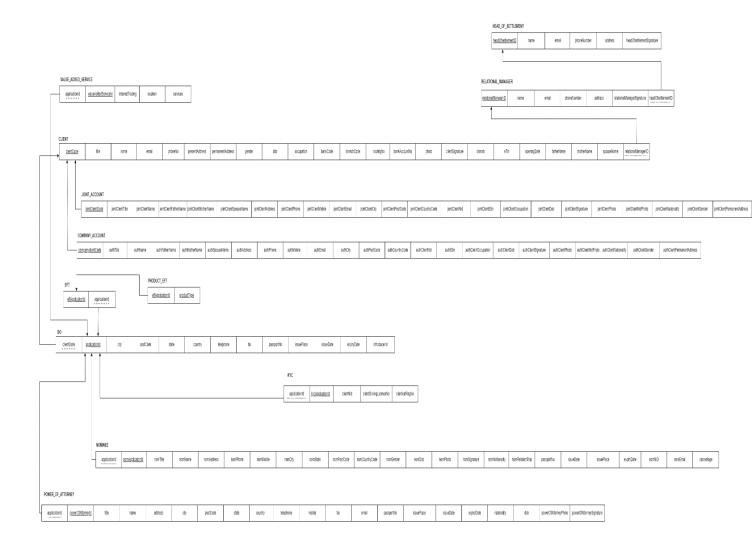
Relational manger has an id, name, email, phone, number, address, signature. Relational manager uniquely identifies from id. A relational manager may handle many client accounts and a client must handled by a relational manager.

Head of settlement has an id, name, email, phone number address signature. Head of settlement uniquely identifies from id. A head of settlement must report one or many relational managers. A relational manager must report a head of settlement.

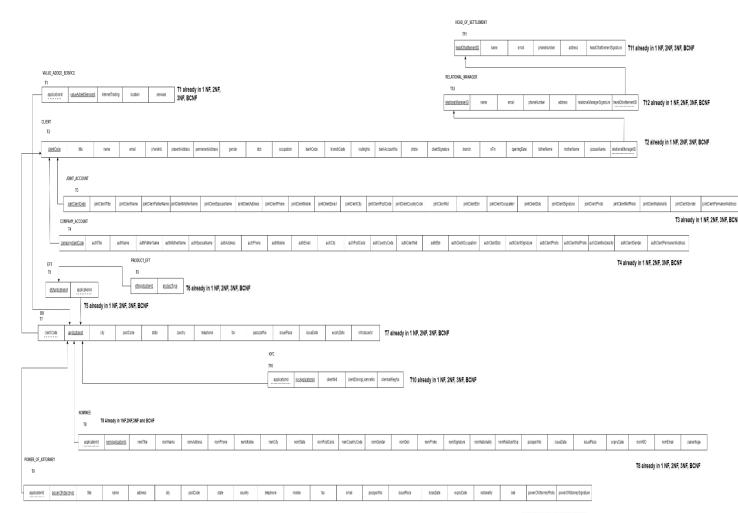
ENTITY RELATIONSHIP DIAGRAM



ENTITY RELATIONSHIP DIAGRAM TO RELATIONAL SCHEMA



NORMALIZATION



T9 already in 1 NF, 2NF, 3NF, BCNF

DATA DICTIONARY

CLIENT_T

Name	Data Type	Siz e	Remark
clientCode	INTEGER	16	Primary key of the client Example:1234567
title	VARCHAR	3	Title of the client name. Example: mr./ms.
name	VARCHAR	50	Name of the client Example: Mahidi Hasan, Emon Mahmud
email	VARCHAR	30	Email of the client Example: mahidi001@gamil.com
phoneNo	INTEGER	11	Phone number of the client Example: 01711234567
presentAddress	TEXT	70	Present address of the client. Example: Bashundara, Dhaka
permanentAddress	TEXT	70	Permanent address of the client. Example: Tangail,Dhaka
gender	VARCHAR	15	Gender of the client. Example: male/female
dob	DATE		Date of birth of client. Example: 1999-01-01
occupation	VARCHAR	20	Occupation of the client. Example: Student, job holder, businessmen

bankCode	INTEGER	8	Bank code of the client. Example: 15171819
branchCode	INTEGER	5	Branch code of the bank. Example: 12345
routingNo	INTEGER	8	Client routing no of the bank. Example: 12345678
bankAccountNo	INTEGER	15	Bank account no of the client. Example: 123456789012345
photo	BLOB		Photo of the client. Example: Photo.jpg, photo.pnj
clientSignature	BLOB		Signature of the client. Example: sig.jpg, sig.pnj
branch	VARCHAR	15	Client Branch name. Example: Agargao, Bashundhara
eTin	VARCHAR	15	Client Tin number. Example: 2001264772
openingDate	DATE		Account opening date Example:12/12/2012
fatherName	VARCHAR	30	Father name of the client. Example: MD. Aziz
motherName	VARCHAR	30	Mother name of the client. Example: Ms. Aysha
spouseName	VARCHAR	30	Wife/husband name of the client. Example: Ms. Rokeya, Md. Emon

relationalManagerl	INTEGER	7	Forging of the client table. This is the primary
D			key of the relational manager table.
			Example: 1234567

JOINT_ACCOUNT_T

Name	Data Type	Siz e	Remark
jointClientCode	INTEGER	16	Primary key of the joint account table.
jointClientTitle	VARCHAR	3	Title of the joint client name. Example: Mr./Ms.
jointClientName	VARCHAR	30	Name of the joint client. Example: Mahidi Hasan, Emon Mahmud
jointClientFatherName	VARCHAR	30	Father name of the joint client. Example: MD. Aziz
jointClientMotherName	VARCHAR	30	Mother name of the joint client. Example: Ms. Aysha
jointClientSpouseName	VARCHAR	30	Wife/husband name of the joint client. Example: Ms. Rokeya, Md. Emon
jointClientAddress	TEXT	70	Address of the joint client. Example: Bashundara, Dhaka
jointClientPhone	INTEGER	15	Phone number of the joint client Example: 91711234567789
jointClientMobile	INTEGER	11	Phone number of the joint client. Example: 01711234567
jointClientEmail	VARCHAR	30	Email of the joint client.

			Example: mahidi001@gamil.com
jointClientCity	VARCHAR	10	City of the joint client. Example: Gazipur
jointClientPostCode	INTEGER	4	Post code of the joint client. Example: 3457
jointClientCountryCode	INTEGER	3	Country code of the joint client. Example: 088
joinClientNid	VARCHAR	15	NID of the joint client. Example: 14578920975345
jointClientEtin	VARCHAR	15	Tin number of joint client Example:22334455
jointClientOccupation	VARCHAR	15	Occupation of the joint client. Example: Student, job holder, businessmen
jointClientDob	DATE		Date of birth of joint client. Example: 1999-01-01
jointClientSignature	BLOB		Signature of the joint client. Example: sig.jpg, sig.pnj
jointClientPhoto	BLOB		Photo of the joint client. Photo.jpg, photo.pnj
jointClientNidPhoto	BLOB		Photo of the joint client. Photo.jpg, photo.pnj
jointClientNationality	VARCHAR	15	Nationality of the joint client. Example: Bangladeshi, Indian
jointClientGender	VARCHAR	10	Gender of the joint client.

			Example: male, female
jointClientPermanentAddress	TEXT	70	Permanent address of the joint client. Example: Tangail, Dhaka

COMPANY_ACCOUNT_T

Name	Data Type	Siz	Remark
		е	
companyClientCode	INTEGER	16	pk
authTitle	VARCHAR	3	Title of the authorized name. Example: Mr./Ms.
authName	VARCHAR	30	Name of the authorized client. Example: Mahidi Hasan, Emon Mahmud
authFatherName	VARCHAR	30	Father name of the authorized client. Example: MD. Aziz
authMotherName	VARCHAR	30	Mother name of the authorized client. Example: Ms. Aysha
authSpouseName	VARCHAR	30	Wife/husband name of the authorized client. Example: Ms. Rokeya, Md. Emon

authAddress	TEXT	70	Address of the authorized client.
			Example: Bashundara, Dhaka
authPhone	INTEGER	15	Phone number of the authorized client
			Example: 91711234567789
authMobile	INTEGER	11	Phone number of the authorized client.
			Example: 01711234567
authEmail	VARCHAR	30	Phone number of the authorized client.
			Example: mahidi001@gamil.com
authCity	VARCHAR	20	City of the cutherized client
authorty	VARCHAR	20	City of the authorized client. Example: Gazipur
			Example: Gazipai
authPostCode	INTEGER	4	Post code of the authorized client.
			Example: 3457
authCountryCode	INTEGER	3	Country code of the authorized client.
			Example: 088
authClientNid	VARCHAR	15	NID of the authorized client.
			Example: 14578920975345
authEtin	VARCHAR	15	Tin number of authorized client
			Example:22334455

authClientOccupation	VARCHAR	20	Occupation of the authorized client. Example: Student, job holder, businessmen
authClientDob	DATE		Date of birth of authorized client. Example: 1999-01-01
authClientSignature	BLOB		Signature of the authorized client. Example: sig.jpg, sig.pnj
authClientPhoto	BLOB		Photo of the authorized client. Photo.jpg, photo.pnj
authClientNidPhoto	BLOB		Photo of the authorized client. Photo.jpg, photo.pnj
authClientNationality	VARCHAR	15	Nationality of the authorized client. Example: Bangladeshi, Indian
authClientGender	VARCHAR	10	Gender of the authorized client. Example:male\female
authClientPermanentAddres s	TEXT	70	Permanent address of the authorized client. Example: Tangail,Dhaka

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	l .	
	l .	

BO_T

Name	Data Type	Size	Remark
applicationId	INTEGER	7	Primary key of BO table. Example: 1234567
clientCode	INTEGER	16	Forging key of the BO table, it's primary key of the client table. Example: 1234567890123456
title	VARCHAR	3	Title of the BO account holder. Example: Mr. / Ms.
city	VARCHAR	20	City of the BO account holder. Example: Dhaka
postCode	INTEGER	4	Post code of the BO account holder. Example: 1234
state	VARCHAR	20	State of the BO account holder. Example: Dhaka
country	VARCHAR	30	Country of the BO account holder. Example: Bangladesh, India

telephone	INTEGER	15	Telephone of the BO account holder. Example: 987654321234567
fax	INTEGER	15	Fax of the BO account holder. Example: 987654321234567
passportNo	INTEGER	15	Passport no of the BO account holder. Example: 098765432123
issuePlace	VARCHAR	20	Issue place of the passport.
issueDate	DATE		Issue date of the passport. Example:2022-02-09
expiryDate	DATE		Expiry date of the passport. Example:2025-02-09
introducerId	INTEGER	16	Introducer id of the BO account holder. Example: 0976543323456789090

NOMINEE_T

Name	Data Type	Size	Remark
applicationId	INTEGER	7	PK of BO table ,FK of nominee table
nomApplicationId	INTEGER	3	pk
nomTitle	VARCHAR	3	Title of the nominee Example:Mr/MS

nomName	VARCHAR	30	Nominee name Example:Mahidy hasan
nomAddress	TEXT	70	Nominee address Example:Bashundhara,dhaka
nomPhone	INTEGER	15	Nominee Phone no. Example:55371
nomMobile	INTEGER	11	Nominee Mobile no. Example:01767996651
nomCity	VARCHAR	20	Nominee city Exapmle:Dhaka,Tangail
nomState	VARCHAR	20	Nominee State Example:Dhaka
nomPostCode	INTEGER	4	Nominee postal code Example:1212
nomCountryCode	INTEGER	3	Nominee Country Code Example:088
nomGender	VARCHAR	10	Nominee gender Example:Male/female
nomDob	DATE		Nominee date of birth Example:12.12.12
nomPhoto	BLOB		Nominee Photo Example:photo.png
nomSignature	BLOB		Nominee signature

			Example:sig.png
nomNationality	VARCHAR	15	Nominee nationality
			Example:Bangladeshi/Indian
nomRelationShip	VARCHAR	20	Nonminee relationship
			Example:Father/mother/daughter
passportNo	INTEGER	15	Nominee passport no.
			Example:12233344444
issueDate	DATE		Issue date
			Example:12/12/13
issuePlace	VARCHAR	20	Issue place
expiryDate	DATE		Expiry Date
			Example:12/12/29
nomNID	VARCHAR	15	Nominee NID
			Example:12131456778899
nomEmail	VARCHAR	30	Nominee Email
			Example:mithun@gmail.com
parcentage	DECIMAL	(3,0)	Nominee parcentage
			10%/20%
	+		

POWER_OF_ATTORNEY_T

Name	Data Type	Siz	Remark
		е	

applicationId	INTEGER	7	Foreign key of the power of attorney table, and primary key of the BO table. Example: 1234567
powerOfAttorneyId	INTEGER	7	Primary key of the power of attorney table Example: 7654321
title	VARCHAR	3	Title of the power of attorney. Example: Ms. / Mr.
name	VARCHAR	30	Name of the power of attorney. Example: Bisawjit Das
address	TEXT	70	Adress of the power of attorney. Example: Bhuapur, Tangail
city	VARCHAR	30	City of the power of attorney. Example: Tangail
postCode	NUMBER	4	Post of the power of attorney. Example: 4321
state	VARCHAR	15	State of the power of attorney. Example: Dhaka
country	VARCHAR	20	Country of the power of attorney. Example: Bangladesh

telephone	INTEGER	15	Telephone number of the power of attorney. Example: 098765432123456
mobile	INTEGER	11	Mobile of the power of attorney. Example: 01712345678
fax	INTEGER	15	Fax number of the power of attorney. Example: 890765432123456
email	VARCHAR	30	Email of the power of attorney. Example: mithun@gamil.com
passportNo	INTEGER	15	Passport number of the power of attorney. Example: 890789654321234
issuePlace	VARCHAR	15	Issue place of passport. Example: Uttara, dhaka.
issueDate	DATE		Issue date of passport. Example: 2022-10-10
expiryDate	DATE		Expiry date of passport. Example: 2027-10-10
nationality	VARCHAR	15	Nationality of the power of attorney. Example: Bangladeshi, Indian.

dob	DATE	Date of birth of the power of attorney. Example: 1999-07-09
powerOfAttorneyPhoto	BLOB	Photo of the power of attorney. Example: ph.jpg
powerOfAttorneySignatur e	BLOB	Signature of the power of attorney. Example: jo.png

RELATIONAL_MANAGER_T

Name	Data Type	Siz	Remark
		е	
relationalManagerID	INTEGER	7	pk
name	VARCHAR	30	Name of relationI manager
			Example:Mithun,emon
email	VARCHAR	30	Relational manager email
			Example:towhid@gmail.co
			m
phoneNumber	INTEGER	11	Phone number
			Example:01765432127
address	VARCHAR	70	Relational manager address
			Example:banani,dhaka

relationalManagerSignatur e	BLOB		Signature Example:sig.png
headOfsettlementID	INTEGER	7	fk

HEAD_OF_SETTLEMENT_T

Name	Data Type	Siz e	Remark
headOfsettlementID	INTEGER	7	pk
name	VARCHAR	30	Head of settlement Example:Towhidur Rahman
email	VARCHAR	30	Email Example:shaon@gmail.co m
phoneNumber	INTEGER	11	Phone number Example:01234567896
address	VARCHAR	70	Address Example:Badda,dhaka
headOfsettlementSignatur e	BLOB		Signature Example:sig.png

Name	Data Type	Size	Remark
kycApplicationId	INTEGER	7	pk
applicationId	INTEGER	7	fk
clientNId	VARCHAR	15	Client NID no. Example:88997654678
clientDrivingLicenceNo	INTEGER	10	Driving license No. Example:88679900533
clientvatRegNo	INTEGER	10	Vat registration no. Example;773300987

EFT_T

Name	Data Type	Size	Remark
eftApplicationId	INTEGER	7	pk
applicationId	INTEGER	16	fk

PRODUCT_EFT_T

Name	Data Type	Size	Remark
productType	VARCHAR	255	PK
eftApplicationId	INTEGER	7	PK+FK

VALUE_ADDED_SERVICE_T

Name	Data Type	Size	Remark
valueAddedServiceId	INTEGER	7	pk
internetTrading	VARCHAR	50	Bond, gold bond
location	VARCHAR	30	Example: DSE,CSE
applicationId	INTEGER	16	fk
services	VARCHAR	30	SMS, Email

CHAPTER 4 PHYSICAL SYSTEM DESIGN

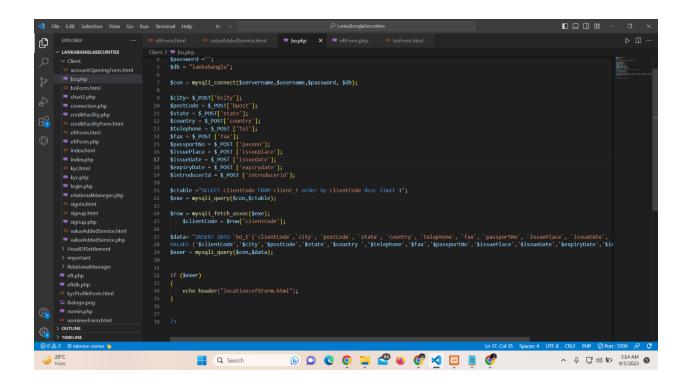
INPUT

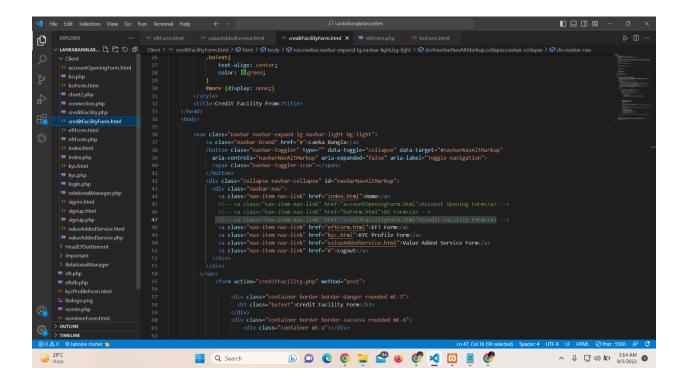
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        LBSL_Premium
        clabel class="form:check-label" for="flexcheckDefault">
        clabel class="flexcheckDefault">
        clabel class="flexcheckDefault">

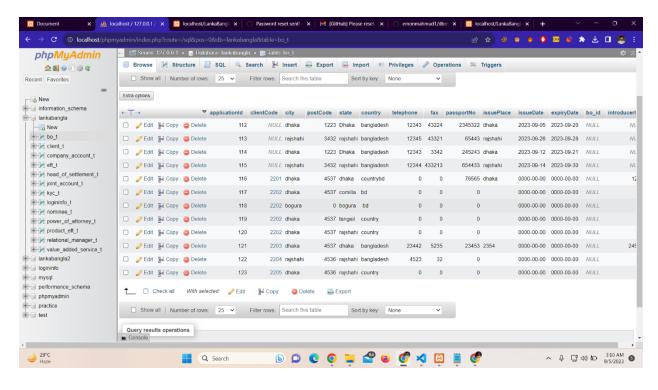
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id="flexCheckDefault">
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LBSL Beginner
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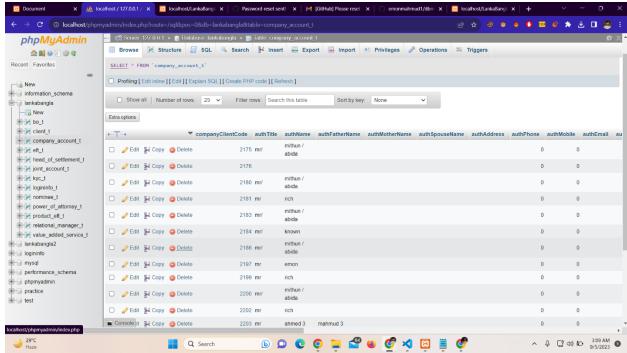
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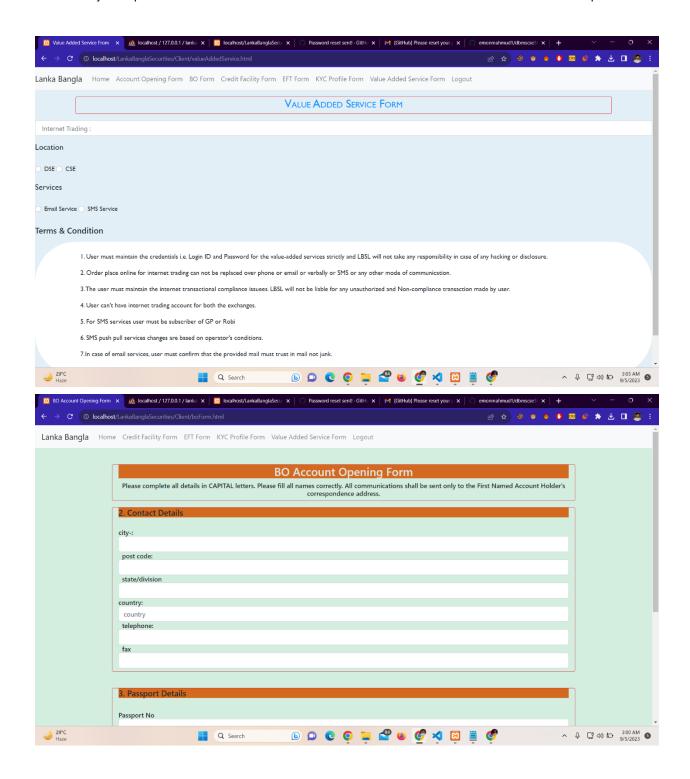


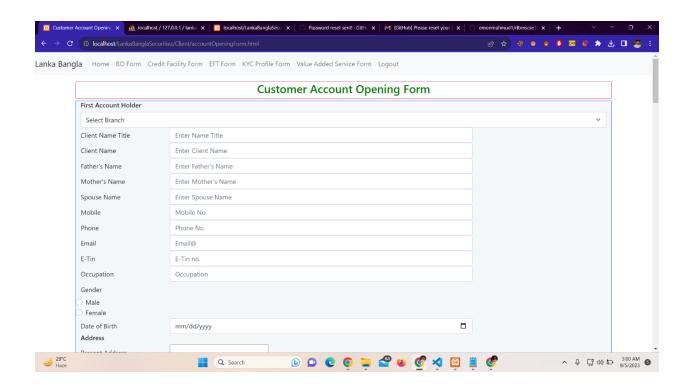


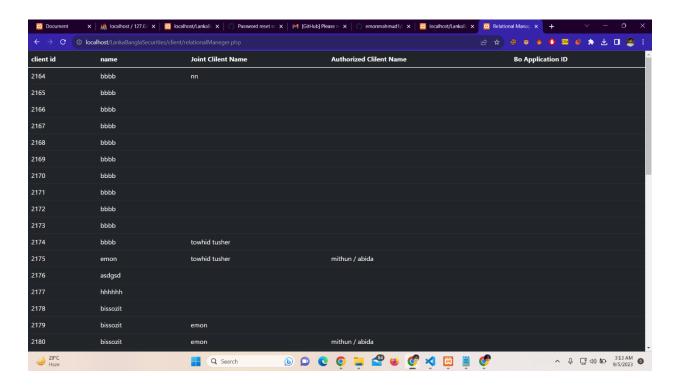


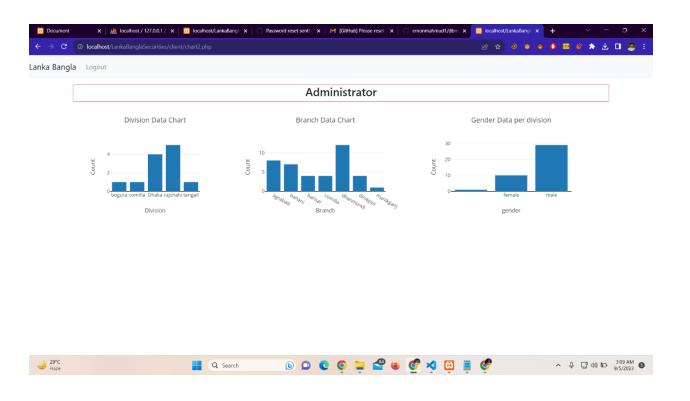


OUTPUT









Chapter 5 Conclusion and Recommendation

CONCLUSION

The redevelopment of Lanka Bangla's new website has been an important step toward modernizing and simplifying the account creation and management process for our clients. By streamlining multi-stage account setups, integrating features like BO ID allocation via CDBL, and roles for Relationship Managers and the Head of Settlement for account verification, we have achieved a robust, secure, and user-friendly platform. This project serves not only to meet but to exceed the evolving needs and expectations of our diverse clientele.

Recommendation

User Experience Monitoring: Upon launch, closely monitor user interactions to identify areas for potential improvement and optimize the overall user experience.

Staff Training: Continuously train Relationship Managers and the Head of Settlement to ensure that they are fully versed in the functionalities of the new system.

Customer Education: Develop easy-to-follow guides, tutorials, and FAQs to help customers understand how to navigate the new website and perform key tasks such as filling out forms for account creation.

Regular Security Audits: Conduct frequent security audits to ensure the robustness of encryption and data protection features, thereby safeguarding customer information.

Customer Feedback Mechanism: Implement a straightforward process for collecting customer feedback regarding their experience using the new website. This will provide valuable insights for future updates.

Legal Compliance: Continuously update the website to adhere to changing laws and regulations in the financial sector, ensuring that all features and processes remain compliant.

Real-Time Support: Consider the addition of real-time support features like a chatbot or live customer service to guide users who may have immediate questions or face issues while using the site.

By acting on these recommendations, Lanka Bangla can ensure the continued success and reliability of its new platform, thereby solidifying its reputation as a leader in Bangladesh's financial services industry.

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- 3) Inserting data into a new column of an already existing table in MySQL using Python https://www.geeksforgeeks.org/inserting-data-into-a-new-column-of-an-already-existing-table-in-mysql-using-python/