Introduction:

The Library System project focuses on creating a software solution for efficient library management, and a solution to many of the problems facing us, as this system allows:

- 1- The possibility of managing the library in the best possible way
- 2- Provide all the information about each book
- 3- Provide all the information about the author
- 4- Helps the user to find the book he wants as soon as possible
- 5- Enables authors to publish their books easily and in the fastest time
- 6- It helps users to exchange books among themselves from all over the world
- 7- The user is offered suggested books similar to the one he is reading

Scope:

The objective of this project is to create an oppropriate database and implement a website for a library via the internet. The system will run on a central server with each user having a remote user interface through a web browser to interact with it. The website will allow users to create and and maintain individual secured accounts, search for books. User will be able to contact with administrators. The website will make purchasing e-book quicker, easier, and more convenient. and we will explain all services in the process and requirements section.

Screens: 6

Employee:

- Project management
- Project owner
- Flutter
- Front
- Back
- UI\UX
- DBAS
- System AS
- Tester

INITIAL BUDGET is 300000 \$

FINAL BUDGET is 298160\$

Development team:

Employee

- Project management
- Project owner
- Flutter (1 Senior)
- Front (1 Junior)
- Back (2 Senior / 2 Junior)
- UI\UX (1 Junior)
- DBAS (2 Senior)
- System AS (1 Senior)
- Tester

Requerment :-

ID	Requirements	Date	Related features	Related stakeholders	Type (Functional / Non-Functional)
1	customers must be able to create new accounts and login to them.	Oct 17nd, 2023	 Customer can open new account by providing necessary information. Login. 	Customersbank	Functional
2	customers must be able to access their accounts from any internet- connected device.	Oct 17nd, 2023	• online access	Customersbank	Functional

3	customers should be able to view their balance and transaction records.	Oct 17nd, 2023	 Displaying account information and current balance to users 	Customersbank	Functional
4	customers should be able to make deposits.	Oct 17nd, 2023	• Depositing funds into their accounts.	Customersbank	Functional
5	Allowing customers to make withdrawals.	Oct 17nd, 2023	• Withdrawing funds from their accounts.	Customersbank	Functional

ID	Requirements	Date	Related features	Related stakeholders	Type (Functional / Non-Functional)
6	Allowing customers to apply for loans.	Oct 17nd, 2023	• ability for users to apply for loans.	Customersbank	Functional
7	customers must be able to make online payments.	Oct 17nd, 2023	• Easy purchasing experience	Customersbank	Functional
8	The system should allow the customer to perform financial transfer transactions	Oct 17nd, 2023	Convenience for customers: Allowing financial transfer transactions provides customers with the flexibility to transfer funds easily and securely.	Customersbank	Functional
9	A customer can request banking cards, such as cards and debit cards.	Oct 17nd, 2023	 Making purchases without the need to carry cash. Security 	Customersbank	Functional
10	Customer can preform various transactions at ATMs.	Oct 17nd, 2023	• Convenient access: Customers can withdraw cash at any time from anywhere they are.	CustomersBank	Functional

ID	Requirements	Date	Related features	Related stakeholders	Type (Functional / Non-Functional)
11	The system must be secure from Cyber attacks.	Oct 17nd, 2023	 Data protection Continuity: The system must be able to deal with cyber attacks without interruption in services. 	Customersbankgovernment	Non_Functional
12	The system must be scalable to meet the requirements of more customers.	Oct 17nd, 2023	• A scalable system can provide a fast and reliable customer experience	Customersbank	Non_Functional
13	The system must be reliable and problem-free.	Oct 17nd, 2023	improve customer experienceIncrease system efficiency	Customersbank	Non_Functional
14	The system must be easy to use.	Oct 17nd, 2023	• improve customer experience	Customersbank	Non_Functional
15	The system must be able to handle different customer needs.	Oct 17nd, 2023	 Increase customer satisfaction improve customer experience 	Customersbank	Non_Functional

16	The system shall maintain transaction records for audit purposes.	Oct 17th,2023	Transaction logging,Data retention.	Customersbank	Non_Functional
17	The system shall be available 24/7 with minimal downtime.	Oct 17nd,2023	High availabilitydisaster recovery.	Customersbank	Non_Functional
18	Response	Oct 17nd,2023	• The system must be response to user in less than 1 second.	• bank	Non_Functional
19	Appearance	Oct 17nd,2023	• smple look to use	• bank	Non_Functional

20	The system shall provide multi- language support	Oct 17nd,2023	• Ease of dealing with customers of different nationalities	Customersbank	Functional
21	Customer can open an account		1-deposits the customer can deposit money into his bank or	Customer	Functional
		Oct	financial account 2-withdrawal: the customer can	institution	
		17nd, 2023	withdrawal funds from his account by withdrawing		
			cash or using an atm card 3-bank transfer: the customer can	Regulatory agencies	

	transfer money	
	from his account	
	to other account	
	inside or outside	
	the bank	

22	Customer can make balance inquiry	Oct 17nd, 2023	1-automated teller machine the customer can use his atm card to access the atm and choose the balance inquiry option to view the available balance in his bank 2-online banking if the financial institution provides online banking, the customer can long in to his account online and view the available balance and account details	Financial institution Regulatory agencies	Functional
23	Customer can request check book	Oct 17nd, 2023	1-number of checks the customer can specify the number of checks he wishes to order. This usually depends on his personal and financial needs 2-customizing checks: a customer may have the ability to customize checks by adding personal	Customer Financial institution	Functional

24	Customer can obtain loan	Oct 17nd, 2023	information such as bank account name, address and phone number on the checks 1-loan application:the customer can apply for a loan from the financial institution 2-loan evaluation: the financial institution evaluate the customers ability to repay the loan by considering income debts, credit history and any other relevant factors. This information is used to determine the available loan amount and appropriate repayment terms	Customer Financial institution	Functional
25	Customer can requests details of the last -Customer number of thanks action he has performed in any account	Oct 17nd, 2023	1-online banking: if the financial institution provides online banking the customer can long into his account online and see the details of his latest	Financial institution	Functional

			transaction		
			2-mobile banking app: if a financial	bank	
			institution has a mobile banking		
			app a customer can use the app		
			to access details		
			of their last transaction		
26	Customer can get monthly statements		1- online banking: if a financial institution	Customer	Functional
			provides online banking a		
			customer can	Financial	
			long into their account online	institution	
			and download a		
		Oct	monthly statement.		
		17nd,	2- email: some financial	hanka	
		2023	institution send	bankq	
			monthly statement to the		
			customers		
			registered email addresses. The		
			customer can check his email		
			box and		
			download the monthly		
	Chaff wassers		statement		
27	Stuff prepare financial reports		Financial analysis: the	Accountants	Functional
		Oct	team of financial analysts		
		Oct 17nd,	analyzes		
		2023	financial statements and	Manager of	
			other financial	companies	
			information to prepare	•	

evaluate the customers ability to repay the loan and its compliance with specified approval criteria Currency exchange service: allows customers to exchange different Eigensteid Eigensteid Functional	28	Super vising loan approval processes	Oct 17nd, 2023	comprehensive financial statements such as major financial statements (such as income statements, balance statements, balance statements) and review the current and past financial activities of the financial institution Reviewing loan applications: supervisor review loan application submitted by customers. Financial and credit information submitted along with supporting documentation is analyzed to	Customer Loan review development Credit and loan management	Functional
exchange coins Oct 17nd, 2023 exchange exchange customers to exchange different Customers Custo			2023	documentation is analyzed to evaluate the customers ability to repay the loan and its compliance with specified approval criteria		
	29		17nd,	exchange service: allows customers to exchange	Customer	Functional

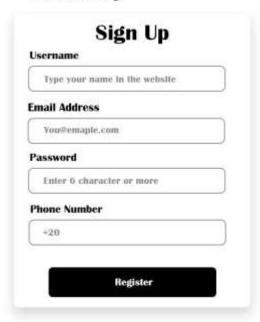
			exchange customers can convert the currency they hold into another currency according to current exchange rates	institution Bank Companies	
30	Systems must have different departments like 1-Freasury departe 2-customer services 3-credit department	Oct 17nd, 2023	Customer service development: concerted with providing support and services to customers. This includes receiving customer inquiries handling complaints and providing necessary financial information and advice the goal of the customer development is to achieve customer satisfaction and build strong and sustainable relationship with them	Treasury development Customer service development Credit development	Functional

Features of our project :-

- Allow users to register for Library by entering (first name, last name, date of birth, password)
- Authenticate user identity during login
- Add new books to the library catalog
- Update book info
- Delete books from the catalog
- Display availability and location
- Implement advanced search
- Allow users to search for book
- Facilitate book checkout and record borrowing details.
- Generate reports on book Provide.
- analytic on each books category.
- Handle book returns and update availability status.
- Enables users to add books to his favorites.
- Adding favorites section which enables user to see his favorites.
- Provide personalized book recommendations based on user preferences, reading history, or popular trends.
- Allow users to pay for borrowing.
- Manage discount codes
- Allow users to borrow books at a discount through a variety of means Unless requirements
- Maintain a reading history for users
- allowing them to track the books they have borrowed and read in the past
- Allow only book borrowers to write reviews and provide ratings.
- facilitating community engagement and aiding in book selection.
- Enable sharing book recommendations, reviews, or borrowing activities on social media platforms.
- Send notifications to users when their reserved books are available for pickup.

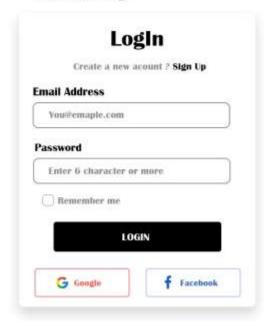
Project screens:-

BookShop





BookShop





BookShop

Home Store About





Edit Your Profile	Acount Information
Photo: Chose a File	First Name Last Name Email
	Change Your Password
	New Password
	Repeat Password Cancel Save



Featured Categories

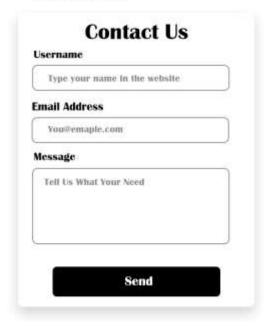








BookShop



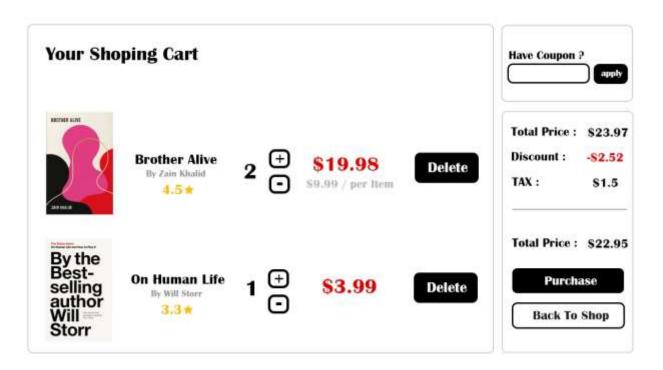


BookShop

Home Store About





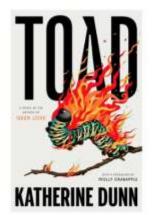






What your looking for ?



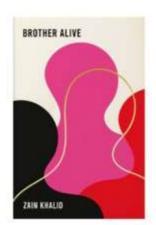


Toad

By Katherine Dunn

\$6.99

4.9 *

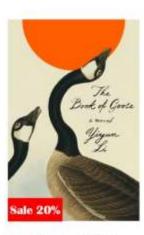


Brother Alive

By Zain Khalid

\$9.99

4.5 *

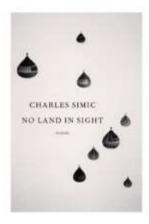


The Book Of Goose

By Yiyun Li

\$4.99

3.8 *



No Land in Sight

By Charles Simic

\$5.99

4.2 *

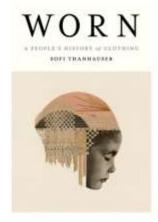


On Human Life

By Will Storr

\$3.99

3.3 *



Worn

By Sofi Thanhauser

\$4.50

4.3 *