

PJLI Micro-Loans Management System (E-Pahiram)





Personal BACKGROUND

(Name, Past Experience, Qualification, Career Summary)

Name: Johnjason M. Coligado

Qualification:

Tech Stack

- Programming Languages & Database: C#, C++, Python, Java, and MsSQL.
- Frameworks: Asp.net, Asp.net Core
- Deployment Tools: Docker & Kubernetes
- Game Development: Unity 3D

Career Summary:

Graduated with a BS Computer Engineering degree, has the title for the best capstone project (A.Y 2021-2022) entitled Arduino Based Kine Bike Simulation, and is also one of the capstone studies published and patented by the Laguna State Polytechnic University San Pablo City Campus. Former Vice President External of the Association of Students in Computer Engineering (ASCpE), one of the Trainee students of Continental Temic Philippines absorbed as Jr. IT Engineer.



Personal BACKGROUND

(Name, Past Experience, Qualification, Career Summary)

Name: Jhansept Kylo Pandanan

Qualification:

Tech Stack

- Programming Languages & Database: C#, C++, Python, Java, and MsSQL.
- Frameworks: Asp.net, Asp.net Core
- Deployment Tools: Docker & Kubernetes

Career Summary:

Jhansept Kylo Pandanan, a graduate of Computer engineering. The former Vice-President Internal of the Association of Students in Computer Engineering of their University. Had his Internship at Automated Technologies Inc. from May 2022 to July 2022 - working along with the Network engineers to provide support and assistance in building and configuring physical servers.

Key Takeaways/Learnings from the Program (HTD)





Database Management:

- Data normalization
- Stored procedure

Asp.NET Framework

- Dependency
- Validations
- MVC
- Roles/Authorizations

Web API (Rest API)

- Swagger
- Postman
- End points

Docker & Kubernetes

- Deployment
- Containerization



Problem Statement of the Capstone Project

The proposed solution is to create a loan management system that will streamline the gadget loan process, provide unique perks and facts about the offered loan, and enable customers to track the progress of their purchase. The loan calculator will also be incorporated, which will enable customers to estimate the total cost of the loan. This system will ensure transparency, provide a seamless experience for customers, and increase customer satisfaction.



Approach Note

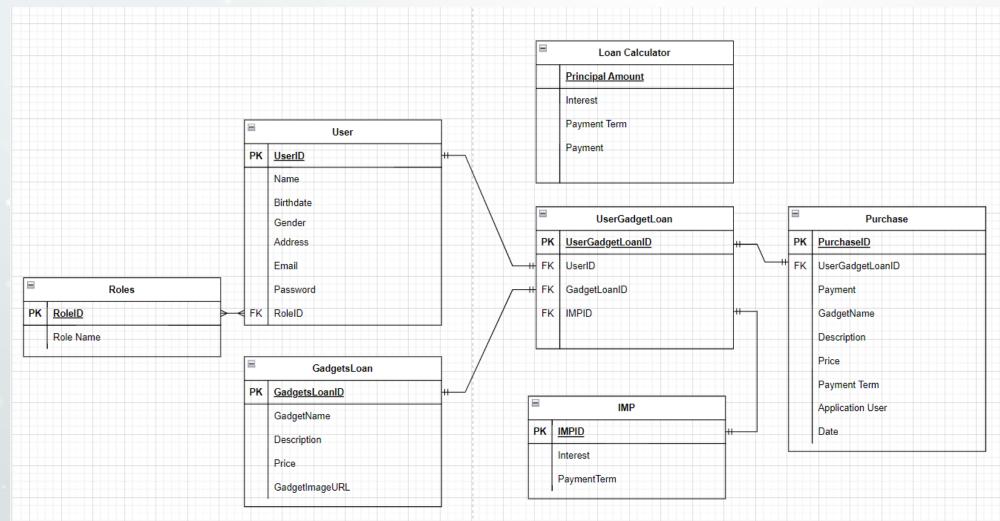
This study refers to the current PJLI micro-loans website. The loan management system was built using Asp.Net MVC and dedicated frameworks, all data was handled with MsSQL and Entity Relationships, it was designed with bootstrap and css components, and it will be deployed with docker and kubernetes.

Approach:

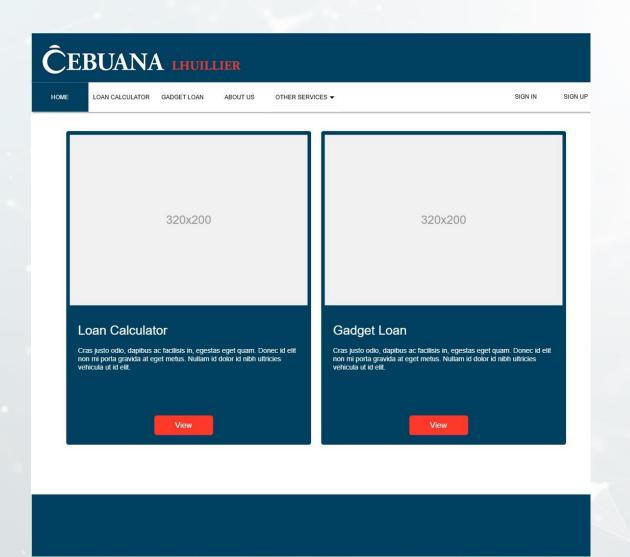
- Planning Phase
- ER Diagram and Wireframe creation
- Implementation
- Deployment

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ER Diagram

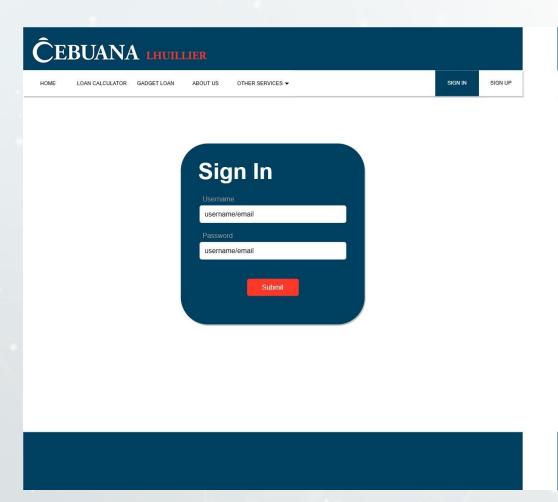


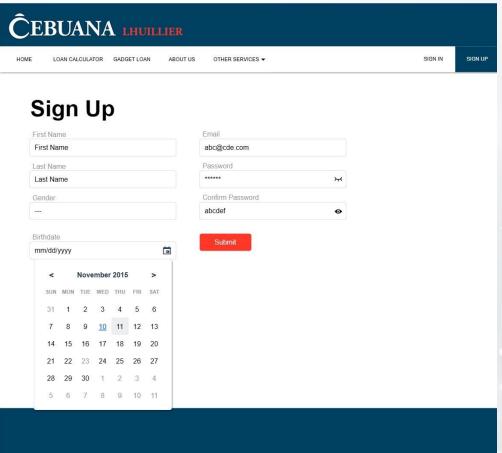
Wireframe/Architecture



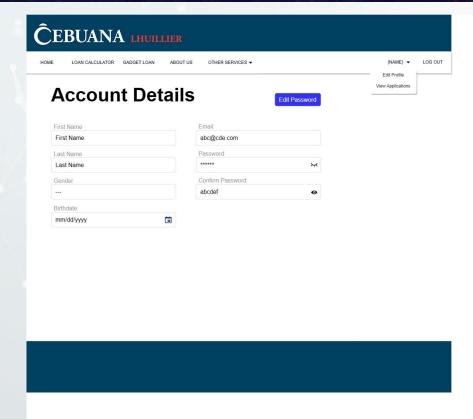


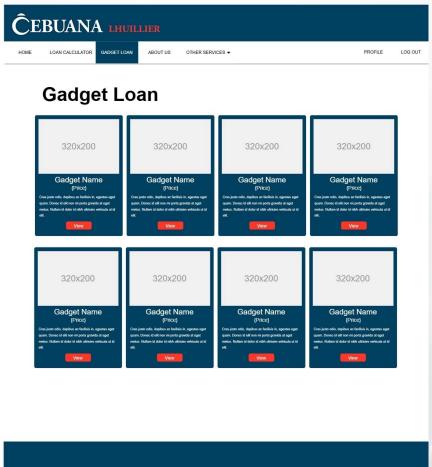
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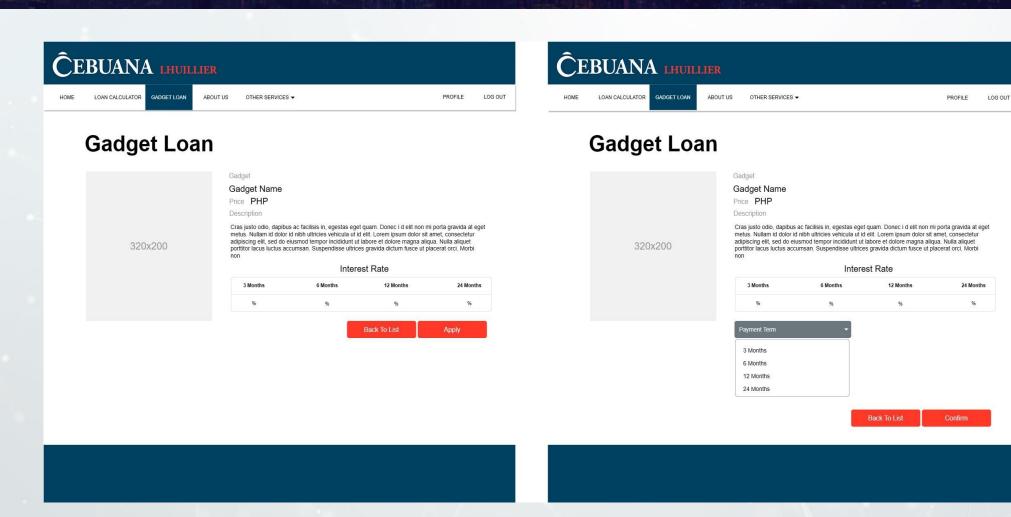






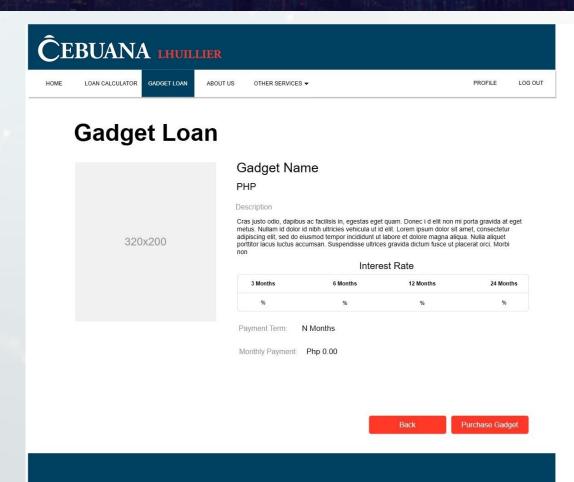


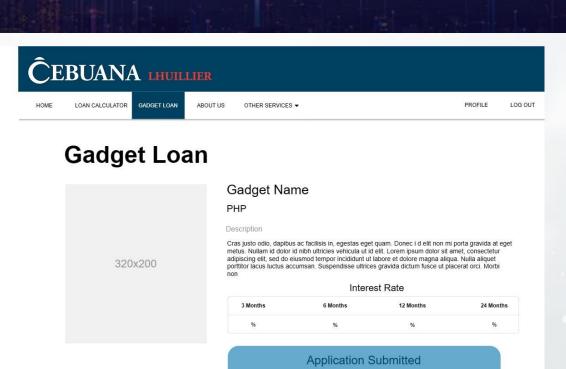
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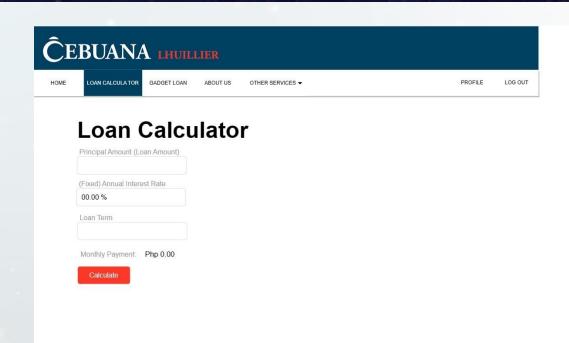
Wireframe

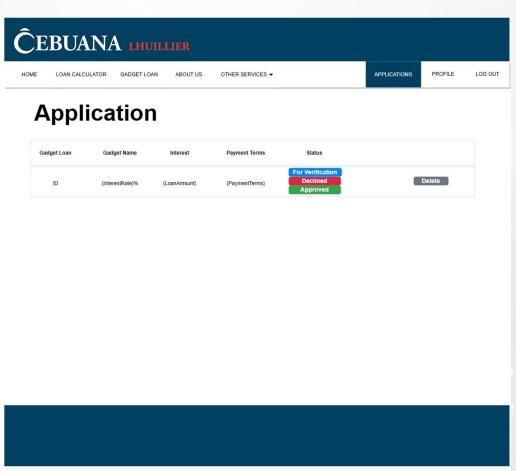




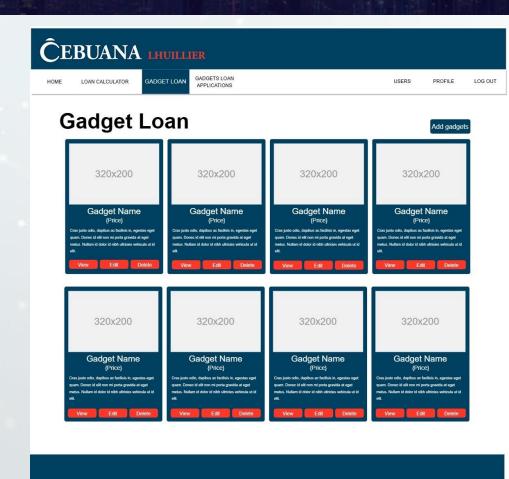
View Application





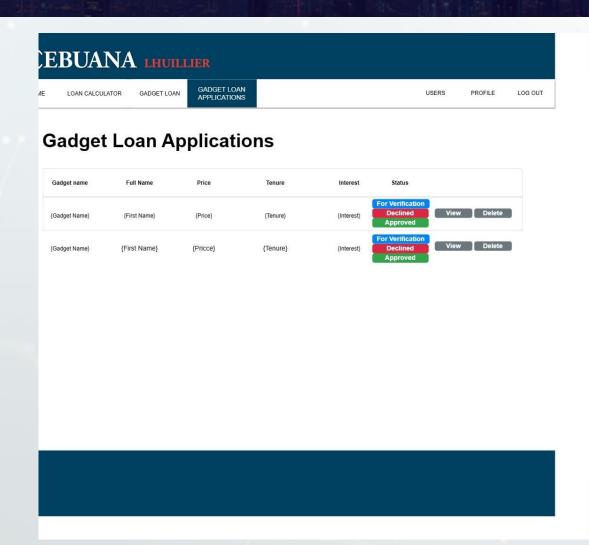


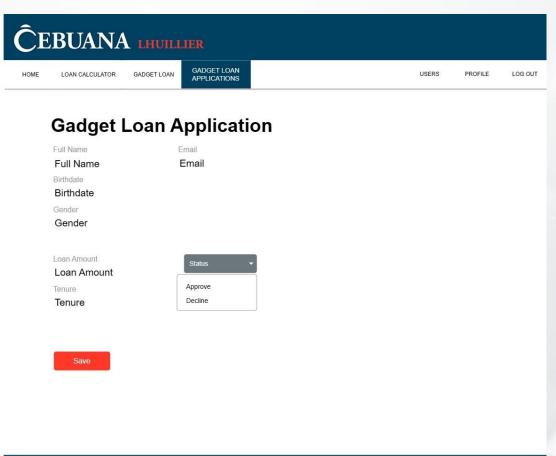




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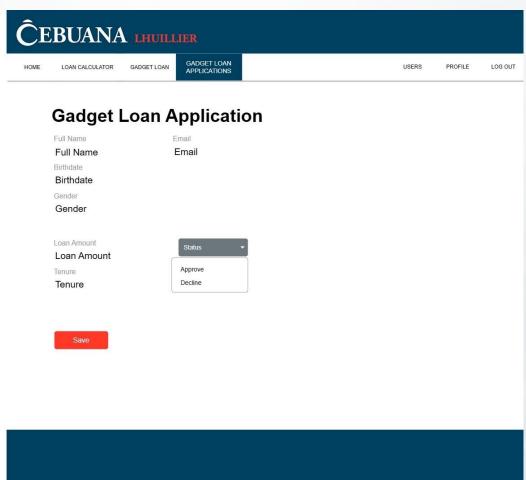
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Important Features



Home Loan Calculator Gadget Loan

Login Register







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Important Features



Home Loan Calculator Gadget Loan

Login Register



We create value to customers through a simple application process, easy terms, and less requirements, cutting long lines and long waiting time. Our network of more than 2,200 branches nationwide and online presence give customers unlimited access and utter convenience in applying for a loan. Our five-point application to disbursement process ensures services are delivered on time.

Welcome to ePahiram Login Your Account

name@example.com Password					
□ Remember me					
Sign in					



Services

Loan Calculator Gadget Loan Facebook

Social Media

Twitter

Youtube

Instagram

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Important Features



Home Loan Calculator Gadget Loan

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Welcome to ePahiram Register an Account

FullName	
Email address	
Date of Birth	Gender
dd/mm/yyyy 🗊	Male
Phone Number	
Address	
Password	
Confirm Password	
Re	gister

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Important Features



LoanCalculator

Calculate	
oan Term (Refer To The Table Below);	
12.00	
Fixed) Annual Interest Rate:	
rincipal Amount (Loan Amount):	

Loan Description

Loan Terms (months)	(Fixed) Interest Rate (annual)	Loan Amount
12	12%(12.00)	Php 50,000 - Php 500,000
24	12%(12.00)	Php 50,000 - Php 500,000
36	12%(12.00)	Php 50,000 - Php 500,000

Eligibility Criteria

Criteria	Requirement
Minimum Loan Amount	Php 50,000
Maximum Loan Amount	Php 500,000
Minimum Loan Term	12 months
Maximum Loan Term	36 months
Minimum Annual Income	Php 25,000

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Important Features



Login Register

GadgetLoan

Enter Gadget Name

Search



Iphone 14 ProMax

PHP 79999

The iPhone 14 Pro Max display has rounded corners that follow a beautiful curved design, and these corners are within a standard rectangle. When



Iphone 14 Pro

PHP 75999

The iPhone 14 Pro display has rounded corners that follow a beautiful curved design, and these corners are within a standard rectangle. When measured as



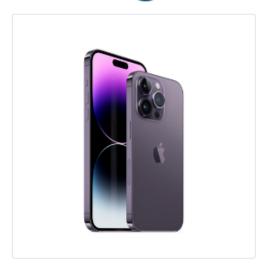
The iPhone 13 display has rounded corners that follow a beautiful curved design, and these corners are within a standard rectangle. When measured as







GadgetLoan



Iphone 14 ProMax

PHP 79999

The iPhone 14 Pro Max display has rounded corners that follow a beautiful curved design, and these corners are within a standard rectangle. When measured as a standard rectangular shape, the screen is 6.69 inches diagonally (actual viewable area is less).

Payment Term

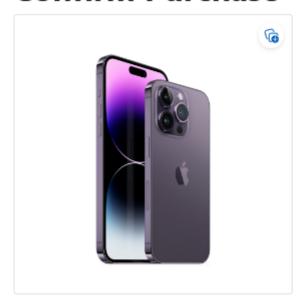
Select Payment Term

Back to list

Confirm



Confirm Purchase



Iphone 14 ProMax

PHP ₱79,999.00

The iPhone 14 Pro Max display has rounded corners that follow a beautiful curved design, and these corners are within a standard rectangle. When measured as a standard rectangular shape, the screen is 6.69 inches diagonally (actual viewable area is less).

Interest: 0.5%

Payment Term: 3 Months

Monthly Payment: ₱27,066.33

Back

Confirm Purchase



MyPurchase

Gadget Name	Interest	Payment Term	Monthly Payment	Date Applied	Status	Actions	
Iphone 14 ProMax	1.5%	24 months	4533,28	18/04/2023	Pending	View	Withdraw Purchase

View Archived Purchases



Purchase Details





Gadget Name	Iphone 14 ProMax
Price	PHP P 79,999.00
Description	The iPhone 14 Pro Max display has rounded corners that follow a beautiful curved design, and these corners are within a standard rectangle. When measured as a standard rectangular shape, the screen is 6.69 inches diagonally (actual viewable area is less).
Interest	1.5%
Payment Term	24 Months
Monthly Payment	₱4,533.28
Date Applied	18/04/2023 2:49:55 am
Monthly Payment	₱4,533.28



Profile Details

Update Password

Name	Registered
Email	registered@gmail.com
Phone Number	1234567890
Gender	Male
Birthdate	18/04/2023
Address	Somewhere



ManageUsers

FullName	Email	Phone Number	Actions
Registered	registered@gmail.com	1234567890	View Delete

UserDetails

Back to List

ld	cba87ff8-bb15-442f-8a47-0e65a93cab8c
Name	Registered
Email	registered@gmail.com
Phone Number	1234567890
Gender	Male
Birthdate	18/04/2023
Address	Somewhere



ViewPurchases

Search... Search View Archived Purchases Phone Gadget **Payment** Number Name Term **Date Applied** Actions Name Interest Status 1.5% 24 months Registered 1234567890 Iphone 14 18/04/2023 Pending Decline View Approve 2:49:55 am ProMax

Archived Purchases

Get More Gadgets

Gadget Name	Interest	Payment Term	Monthly Payment	Date Purchased	Status	Actions	
Iphone 14 ProMax	0.7%	6 months	13893.16	18/04/2023	Declined	View	Delete Purchase

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Important Features

PurchaseDetails





Gadget Name	Iphone 14 ProMax
Price	PHP ₱79,999.00
Description	The iPhone 14 Pro Max display has rounded corners that follow a beautiful curved design, and these corners are within a standard rectangle. When measured as a standard rectangular shape, the screen is 6.69 inches diagonally (actual viewable area is less).
Interest	0.7%
Payment Term	6 Months
Monthly Payment	₱13,893.16
Date Applied	18/04/2023 2:46:19 am

UserDetails

Name	Registered
Email	registered@gmail.com
Phone Number	1234567890
Gender	М
Birthdate	18/04/2023 2:45:20 am
Address	Somewhere

Modules Done



John Jason M. Coligado:

- Entity relationship in MVC
- loan Calculator (formula and implementation)
- EMI Formula for Gadget and Loan Calculator (Implementation)
- Purchase Controllers

Jhansept Kylo Pandanan:

- ER Diagram
- Wireframes
- Gadget Loan Implementation (CRUD)
- UI



Implementation

Future Enhancement: Payment Options such as (Online Banking, Over the counter payment, and Cash payment thru PJLI).



Conclusion

This capstone project adds new features to the existing web application for micro-loans, which can compute the initial loan payment for the customer, provide a list of available loan gadgets, and the admin can change details and add new gadgets as needed, and finally, the user has a dashboard to view the purchase and existing payment terms. this web application should meet business standards.

