

Bank Auto Loan Information System

This information system aims to enable potential borrowers to apply for a loan in order to acquire property (house, car) or construct/renovate a house (multi-purpose loan). Here we limit the loan to car loan in order to simplify things. In essence, the system should enable a potential borrower to access the loan calculator to see the estimated monthly amortization given a sample loan amount; apply for a loan; view the status if his loan; and pay his monthly amortization via auto-debit. On the other hand, the bank officer should be able to view all loan applications, issue decision on the loan application (i.e. approve or reject loan application), view information about a loan (borrower info, documents provided, monthly amortization payments), apply search filters to display loans matching a criteria. Since loan payment is via auto-debit, the system should automatically tag the loan as either “Completed”, “Delinquent”, “In Loan Default”.

Borrower

1. Use loan calculator to determine his monthly amortization for the loan he wishes to apply for.
For reference:
https://docs.google.com/spreadsheets/d/1A67RAZ3yWmpHG6euY38n3_58eWGVtq2q7ykxNRqRwEQ/edit#gid=0
But you are required to provide a UI that generates estimated monthly loan payments similar to
<https://www.psbank.com.ph/psbank-online-loan-amortization-calculator/AutoLoan/Calculator>
2. Register
3. Login
4. Apply for loan
 - a. Provide personal and loan details. Refer to
https://www.psbank.com.ph/media/4472/auto-loan-individual_rev-july-2020.pdf
Or
<https://www.psbank.com.ph/psbank-online-loan-application/auto-loan/apply-now>
 - b. Attach loan documents (ex. certificate of employment, latest 2 months payslips)
 - Can attach loan documents later, however complete loan documents must be submitted so loan evaluation can commence
5. View status of loan application (“For Review”, “Approved”, “Rejected”). Note: status of newly submitted loan applications will be “For Review”
6. In case his loan is approved, he must open a bank account with the bank so his monthly amortizations can be auto-debited from that account. (Note: System automatically deducts the monthly amortization from his bank account every due date. Ex. If due date is every 4th of each month then his monthly amortization will be deducted every Jan 4, Feb 4, Mar 4,...)
7. Deposit money to the bank account where loan is auto-debited.
8. Pay loan via over the counter in case of bank account closure (happens when the bank account balance is smaller than the monthly amortization which results in wiping out all remaining balance to pay the monthly amortization and then eventually bank account closure)

Bank Officer

1. Login
2. Loan application functions
 - a. View all loan applications for review
 - b. View a specific loan application for review
 - i. View/Download loan documents
 - ii. Approve/Reject loan application (Note: reasons must be provided)
 - c. View all approved loans
 - d. View details of a specific approved loan
 - i. View/Download loan documents of a specific approved loan
 - ii. View loan monthly amortization payments of a specific approved loan
 - e. View all rejected loans

- i. View/Download loan documents of a specific rejected loan
 - ii. View loan monthly amortization payments of a specific rejected loan
- 3. Loan Filters
 - a. View all loan applications greater than/less than a specified amount (ex. display loans > 5,000,000; display loans < 5,000,000; display loans between 2,000,000 and 5,000,000)
 - b. View all loans that are "In Loan Default"
 - i. Display complete details of borrower and their loan payments
 - c. View all loans of a given borrower

Note: The system automatically updates the loan tag

- 1. Loan Tag is "Completed" if already fully paid
- 2. Loan Tag is "Delinquent" if
 - a. total monthly payments are smaller than the agreed monthly amortization. This happens when the bank account has a balance smaller than the monthly loan amortization. Note this results in closure of account and so to continue the loan payment, the loan payment may be done via over the counter.
 - OR
 - b. 1st month is unpaid, Loan Tag is "Delinquent"
 - c. 2nd month is unpaid, Loan Tag is "Delinquent"
- 3. Loan Tag is "In Loan Default" if loan has 3 consecutive unpaid monthly amortizations.

Note to the developers



To facilitate faster development, imagine this is already in place, what UI should be in place for each type of user? **Design a complete set of screens (UI) for each type of user.** You may refer to existing application in psbank (links provided above) or some other bank

Scope and Limitation

- 1. For simplicity, procedure for opening of bank account is not covered. Should the loan application be approved, only the bank account number will be needed. It is assumed that the borrower already has an account and that there is only a need to link this bank account to the loan account so auto-debit payments can be made
- 2. For "Delinquent" or "In Loan Default" loans, next payments will be via over the counter. Just record the date and amount paid. Assume that Loan Tag will not be changed (i.e. will stay as "Delinquent") even if sufficient payments have already been made (may record na kc na delinquent so nkatatak nay un).
- 3. For simplicity, do not compute anymore the interest of the "Delinquent" or "In Loan Default" loans. Just record the payments made. Loan settlement for these cases is outside of scope.

Bank Officer View of Bank Auto Loan Application

| Auto Loan Application Status For Review | |
|---|--|
| | 123456789 (this should be clickable and should display the loan application) |

| | | |
|--|--|---|
| Loan Account Number |   | |
| | Application Form for Individual Borrowers | |
| Loan Application Decision | <p>Thank you for taking interest in PSBank's Auto Loan. Please completely fill out this application form or put N/A on fields that are not applicable to you. All fields marked with asterisk (*) are mandatory fields. Application with incomplete information will not be processed. Please print your answers using BLACK Ink only.</p> | |
| | Date of Application 02/15/2022 | Dealer Automotive Icon |
| | Brand Mercedes Benz | Sales Agent Ricky Lee |
| | Year Model 2022 | Branch Alabang |
| | Model 2022 A 180 Progressive | Application No. 123456789 |
| | Type of Vehicle <input checked="" type="checkbox"/> Brand New <input type="checkbox"/> Used <input type="checkbox"/> Reconditioned | Cash Price 2,690,000 |
| | Amount Financed 1,883,000.00 | Downpayment 807,000.00 |
| | Add-on Rate (AOR) 5.25% | Term (in months) 60 |
| | PURPOSE OF LOAN | |
| | <input checked="" type="checkbox"/> Personal <input type="checkbox"/> Business <input type="checkbox"/> Public Use <input type="checkbox"/> Others, pls. specify _____ | |
| | INFORMATION OF BORROWER CO-MAKER | |
| | *Name (Last name, First name, Middle name) <input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms. <input type="checkbox"/> Mrs. <input type="checkbox"/> Sr. <input type="checkbox"/> Jr. Others _____ Gender <input checked="" type="checkbox"/> Male <input type="checkbox"/> Female | |
| | Dela Cruz, Juan Reyes | |
| | *Nationality <input checked="" type="checkbox"/> Filipino <input type="checkbox"/> Others | Residency <input checked="" type="checkbox"/> Resident (e.g. Filipinos, sea-based OFWs, Aliens with ACR or Special Retirement Visa ID, etc.) <input type="checkbox"/> Non-Resident (e.g. Aliens, Filipino immigrants, land-based OFWs with contract to work abroad for more than a year, etc.) |
| | *Birthdate (mm/dd/yy) 01/01/1970 | Age 52 |
| *Birthplace Pasig City | If co-maker, pls. specify relation to Principal Applicant | |
| Educational Attainment <input type="checkbox"/> Elementary <input type="checkbox"/> High School <input type="checkbox"/> Vocational <input type="checkbox"/> College <input type="checkbox"/> Undergraduate <input type="checkbox"/> Postgraduate | Civil Status <input checked="" type="checkbox"/> Single <input type="checkbox"/> Legally Separated <input type="checkbox"/> Married <input type="checkbox"/> Widowed | |
| *Tax Identification No. 111222333 | SSS / GSIS No. CRN-123111222 | |
| *Present Address (House No./Floor/Unit No./Block No./Lot No./P.O. Box No./Bldg./Apartment Name/Street Name/Village/Subdivision/Phase/Barangay/Barrio/Municipality/Province/City/Zip Code/Country) #21 Willow St. Avida Settings Nuvali, Calamba, Laguna | | |
| *Previous Address (House No./Floor/Unit No./Block No./Lot No./P.O. Box No./Bldg./Apartment Name/Street Name/Village/Subdivision/Phase/Barangay/Barrio/Municipality/Province/City/Zip Code/Country) #32 Torre Lorenzo, Apacible Street, Sta. Cruz, Manila | | |
| Home Ownership <input checked="" type="checkbox"/> Owned <input type="checkbox"/> Mortgaged to _____ (Bank or Financial Institution) Term _____ Amort./Mo. PhP _____ | Length of Stay ____ Years _____ Months | |
| <input type="checkbox"/> Rented from _____ (Landlord's Name and Contact No.) Rent / Mo. PhP _____ | <input type="checkbox"/> Living with Parents / Relatives _____ (Names) Relationship _____ | |
| *Residential Telephone No. (For non-Metro Manila, please indicate the area code) 02-8-2734566 | *Cellphone No. 09191234567 | |
| *Email Address juandelacruz@gmail.com | Your preferred mailing address: <input checked="" type="checkbox"/> Residence <input type="checkbox"/> Office Address <input type="checkbox"/> Business Address | |
| Note: The whole form should be displayed. | | |

This is the Approved Loan Details (this is view only as info shown here are retrieved from database)

| Approved Auto Loan Application | | |
|--------------------------------|-----------------------|----------------------------|
| Approved Loan Details | Loan Account Number | 123456789 |
| | Loan Application Date | 02/15/2022 |
| | Principal Borrower | Dela Cruz, Juan Reyes |
| | Co-borrower | Dela Cruz, Marietta Mendez |
| | Purpose of Loan | Personal |
| | Dealer | Automotive Icon |
| | Branch | Alabang |
| | Brand | Mercedes Benz |
| | Year Model | 2022 |
| | Model | 2022 A 180 Progressive |
| | Type of Vehicle | Brand New |

| | | |
|--|-------------------------------|---|
| | Cash Price | Php 2,690,000.00 |
| | Downpayment | Php 807,000.00 |
| | Amount of Loan | Php 1,883,000.00 |
| | Add-on Rate | 5.25% |
| | Loan Term (in months) | 60 |
| | Monthly Amortization | Php 35,750.61 |
| | Monthly Loan Payment Schedule | Every 4 th day of each month |
| | 1 st Loan Payment | March 4, 2022 |
| | 60 th Loan Payment | February 4, 2027 |

Form to use when loan is already approved and need to link Bank Account where the auto loan will be this Auto Loan Auto-Debit Form

| Auto Loan Auto-Debit Form | | |
|-----------------------------------|---|---|
| Approved Loan Details | Loan Account Number | 123456789 |
| | Loan Application Date | 02/15/2022 |
| | Principal Borrower | Dela Cruz, Juan Reyes |
| | Co-borrower | Dela Cruz, Marietta Mendez |
| | Purpose of Loan | Personal |
| | Dealer | Automotive Icon |
| | Branch | Alabang |
| | Brand | Mercedes Benz |
| | Year Model | 2022 |
| | Model | 2022 A 180 Progressive |
| | Type of Vehicle | Brand New |
| | Cash Price | Php 2,690,000.00 |
| | Downpayment | Php 807,000.00 |
| | Amount of Loan | Php 1,883,000.00 |
| | Add-on Rate | 5.25% |
| | Loan Term (in months) | 60 |
| | Monthly Amortization | Php 36,185.17 |
| | Monthly Loan Payment Schedule | Every 4 th day of each month |
| | 1 st Loan Payment | March 4, 2022 |
| | 60 th Loan Payment | February 4, 2027 |
| Back Account Number to auto-debit | PSBSA-222333444555 | |
| Amount of Loan | Php 1,883,000.00 | |
| Loan Term (in months) | 60 | |
| Monthly Amortization | Php 36,185.17 | |
| Monthly Loan Payment Schedule | Every 4 th day of each month | |
| 1 st Loan Payment | March 4, 2022 | |
| 60 th Loan Payment | February 4, 2027 | |

Form to use when payment is done via over the counter (in case of delinquent/on loan default loan tags)

| Auto Loan Over the Counter Payment Form | |
|---|---------------|
| Loan Account Number | 123456789 |
| Transaction Date | May 4, 2023 |
| Amount Paid | Php 20,000.00 |