

LOANS APP

USER MANUAL

Welcome to the LOANS App.

This App is to help people to deal with their expenses and help them to figure out if they qualify for a Home loan or help rent property and to figure out if they qualify for a vehicle loan or to rent a vehicle and to help them save up for a specific goal. The application will require the users to provide details about their finances and property & vehicle they wish to acquire or rent.

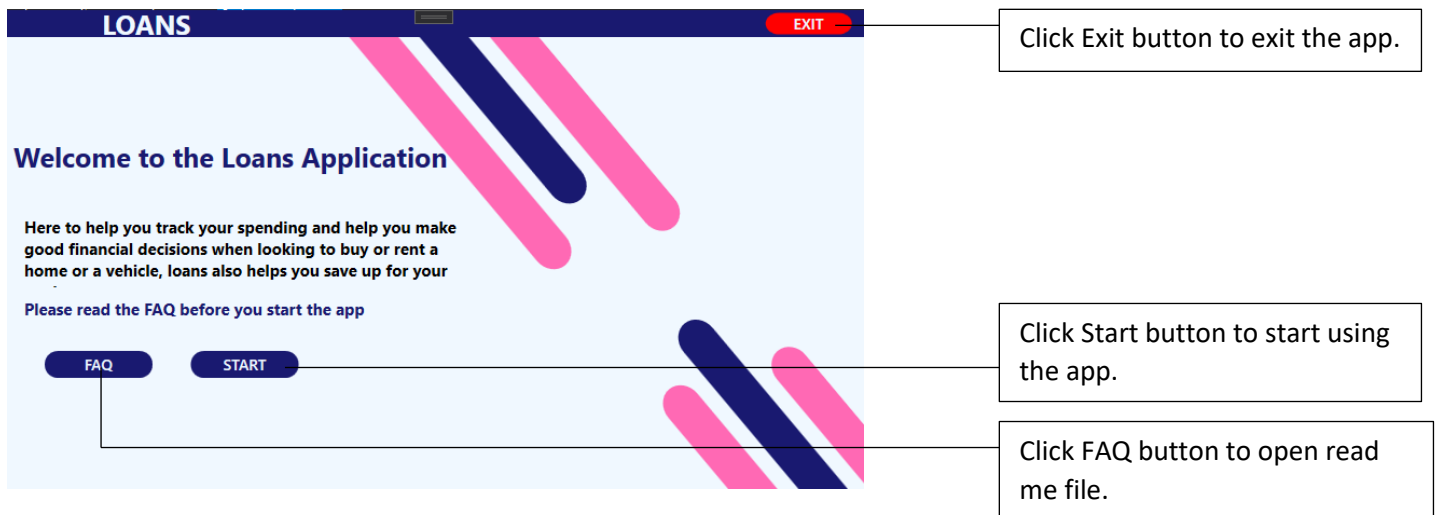
The application will then work out if the user will qualify to get a home loan or vehicle loan or qualify to rent a home or vehicle.

HOW TO RUN THE APP:

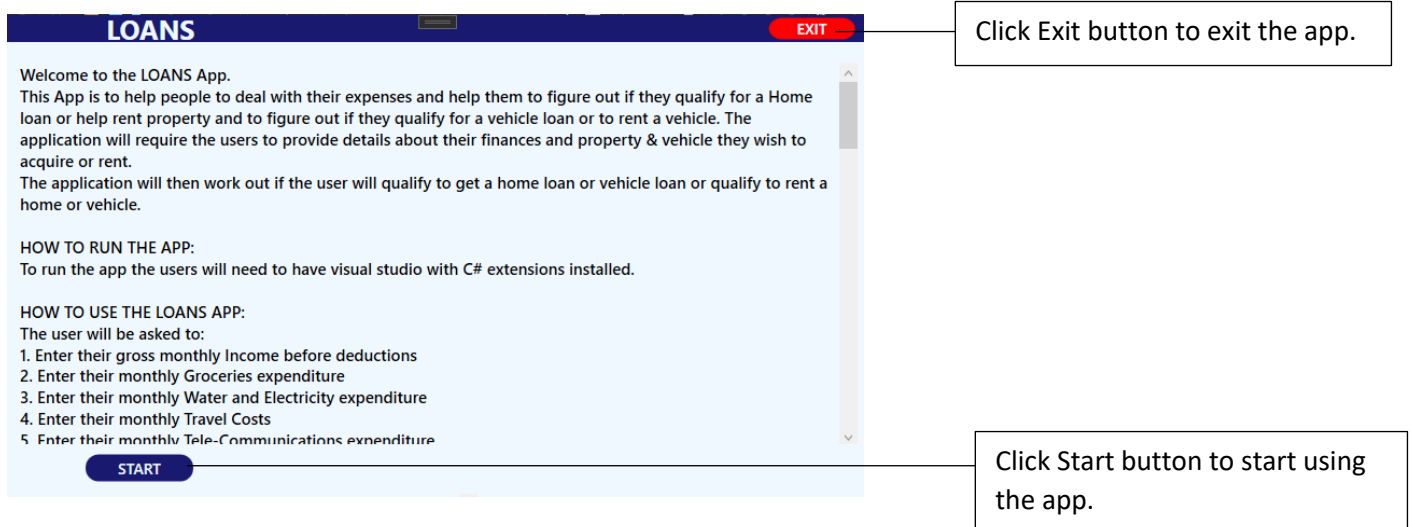
To run the app the users will need to have visual studio with C# extensions installed.

HOW TO USE THE LOANS APP:

Home page



FAQ page



Expenses' page

LOANS EXIT

Please enter your gross monthly Income

Income

Please enter your monthly expenses.
Note!! Tax will be calculated Based on Income.

Groceries

Water and Electricity

Travel Costs

Tele-Communications

Other Expenses

SUBMIT

Click Exit button to exit the app.

Text box to enter Income.

Text box to enter Groceries amount.

Text box to enter water & electricity amount.

Text box to enter Travel cost amount.

Text box to enter tele-communications amount.

Text box to enter other expenses amount.

Submit button to show report and go to next window.

LOANS EXIT

Please enter your gross monthly Income

Income

60000

Please enter your monthly expenses.
Note!! Tax will be calculated Based on Income.

Groceries

1000

Water and Electricity

2000

Travel Costs

3000

Tele-Communications

4000

Other Expenses

5000

SUBMIT

Income & Expenses report.

Home rent or buy page

LOANS EXIT

Would you like to buy property or rent accommodation?

BUY RENT

Click Exit button to exit the app.

Rent Button to choose rent and open home rent window.

Buy button to choose to buy and open home loan window.

Home Rent page

The screenshot shows the 'Home Rent' page with a dark blue header containing the word 'LOANS' and a red 'EXIT' button. Below the header, the title 'Accommodation Rental Details.' is displayed. A prompt 'Please enter the following details.' is followed by a text box labeled 'Rental Amount'. A blue 'SUBMIT' button is positioned below the text box. The background features abstract pink and blue diagonal stripes.

Click Exit button to exit the app.

Text box to enter rental amount.

Submit button to show accommodation rental report and go to next window.

This screenshot shows the same 'Home Rent' page as before, but with the 'Rental Amount' text box filled with the value '5000'. A modal window titled 'ACCOMMODATION RENTAL REPORT' is open in the center. The modal contains the text 'Monthly Rent = R5000' and an 'OK' button at the bottom right.

Accommodation rental report

Home Loan page

The screenshot shows the 'Home Loan' page with a dark blue header containing 'LOANS' and a red 'EXIT' button. The title is 'Home Loan Details.'. Below the prompt 'Please enter the following details.', there are four text boxes: 'Purchase price of the property', 'Total deposit amount', 'Interest rate', and 'Number of months to repay'. A note below the last text box says 'Note!! between 240 and 360 Months'. A blue 'SUBMIT' button is at the bottom.

Click Exit button to exit the app.

Textbox to enter purchase price.

Textbox to enter deposit amount.

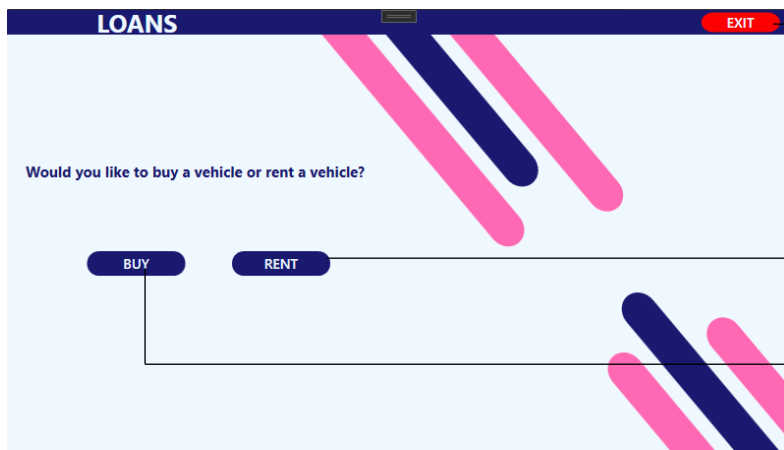
Textbox to enter the interest rate.

Textbox to enter the number of months.
Submit button to show home loan report and open next window.

This screenshot shows the 'Home Loan' page with the text boxes filled with the values: '1500000', '250000', '12', and '360'. The 'SUBMIT' button is visible. A modal window titled 'PROPERTY REPORT' is open, displaying the following information: 'Property Purchase Price = R1500000', 'Total Deposit = R250000', 'Interest Rate = 12%', and 'Number of Months to pay = 360 Months'. Below this, it says 'HOME LOAN REPORT', 'Total Loan Repayment = R5750000', 'Monthly Home Loan Repayment = R15972,22', and 'Loan Duration = 360 months (30 years)'. An 'OK' button is at the bottom right of the modal.

Home Loan report

Vehicle Rent or Buy page



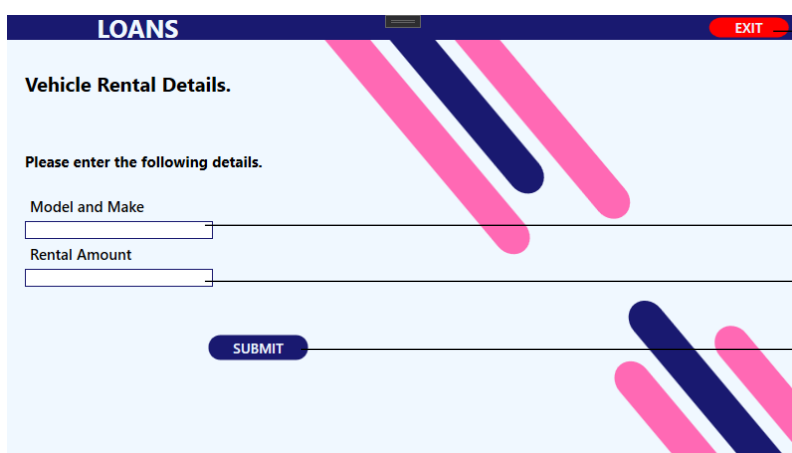
The screenshot shows the 'LOANS' header in a dark blue bar. Below it, a question 'Would you like to buy a vehicle or rent a vehicle?' is displayed. Two buttons, 'BUY' and 'RENT', are positioned below the question. The 'BUY' button is on the left and the 'RENT' button is on the right. Both buttons are dark blue with white text. The background features a light blue gradient with abstract pink and dark blue diagonal stripes.

Click Exit button to exit the app.

Button to choose to rent a vehicle and open rent vehicle window.

Button to choose to buy a vehicle and open vehicle loan window.

Vehicle Rent page



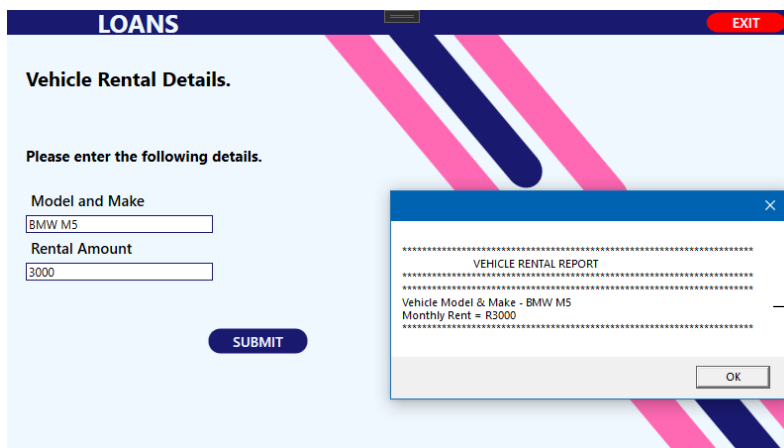
The screenshot shows the 'LOANS' header in a dark blue bar. Below it, the title 'Vehicle Rental Details.' is displayed. A prompt 'Please enter the following details.' is shown. There are two input fields: 'Model and Make' and 'Rental Amount'. Below these fields is a 'SUBMIT' button. The background features a light blue gradient with abstract pink and dark blue diagonal stripes.

Click Exit button to exit the app.

Textbox to enter model and make.

Textbox to enter rental amount.

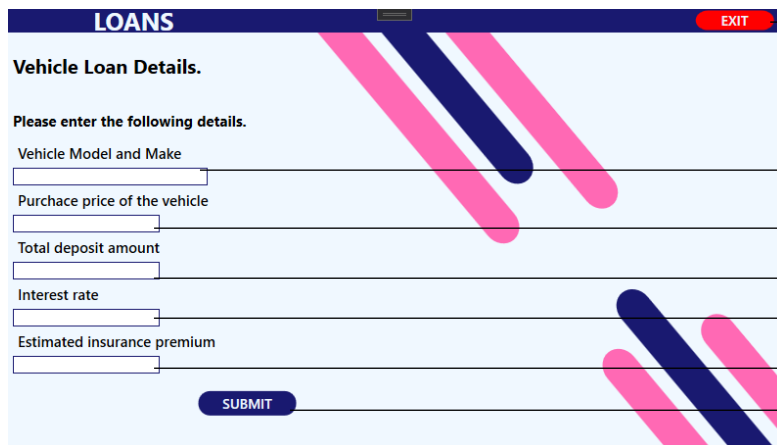
Submit button to show rental report and open next window.



The screenshot shows the 'LOANS' header in a dark blue bar. Below it, the title 'Vehicle Rental Details.' is displayed. A prompt 'Please enter the following details.' is shown. There are two input fields: 'Model and Make' and 'Rental Amount'. Below these fields is a 'SUBMIT' button. A modal window titled 'VEHICLE RENTAL REPORT' is open, displaying the following text: 'Vehicle Model & Make - BMW M5', 'Monthly Rent - R3000'. The background features a light blue gradient with abstract pink and dark blue diagonal stripes.

Vehicle rental report

Vehicle Loan page



LOANS EXIT

Vehicle Loan Details.

Please enter the following details.

Vehicle Model and Make

Purchase price of the vehicle

Total deposit amount

Interest rate

Estimated insurance premium

SUBMIT

Click Exit button to exit the app.

Textbox to enter model and make.

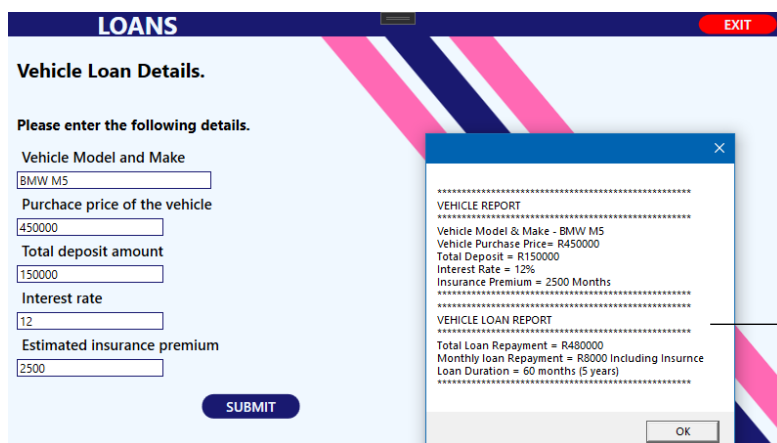
Textbox to enter purchase price.

Textbox to enter deposit amount.

Textbox to enter interest rate.

Textbox to enter insurance premium.

Submit button to show vehicle loan report and open next window.



LOANS EXIT

Vehicle Loan Details.

Please enter the following details.

Vehicle Model and Make

Purchase price of the vehicle

Total deposit amount

Interest rate

Estimated insurance premium

SUBMIT

VEHICLE REPORT

Vehicle Model & Make - BMW M5
Vehicle Purchase Price= R450000
Total Deposit = R150000
Interest Rate = 12%
Insurance Premium = 2500 Months

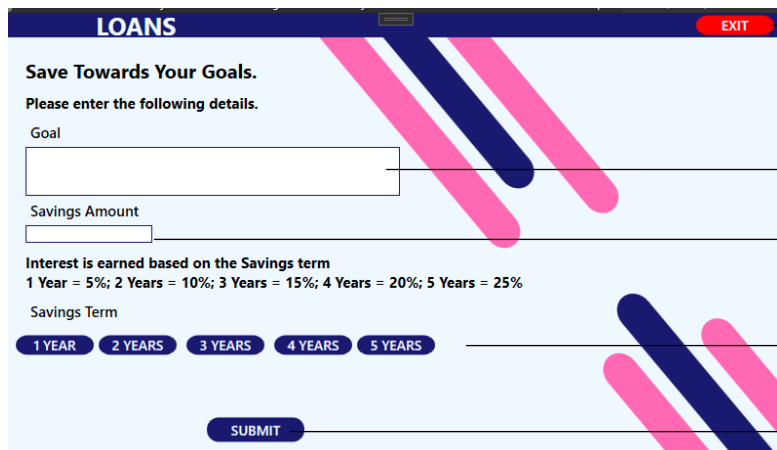
VEHICLE LOAN REPORT

Total Loan Repayment = R480000
Monthly loan Repayment = R8000 Including Insurance
Loan Duration = 60 months (5 years)

OK

Vehicle loan report

Savings page



LOANS EXIT

Save Towards Your Goals.

Please enter the following details.

Goal

Savings Amount

Interest is earned based on the Savings term
1 Year = 5%; 2 Years = 10%; 3 Years = 15%; 4 Years = 20%; 5 Years = 25%

Savings Term
1 YEAR **2 YEARS** **3 YEARS** **4 YEARS** **5 YEARS**

SUBMIT

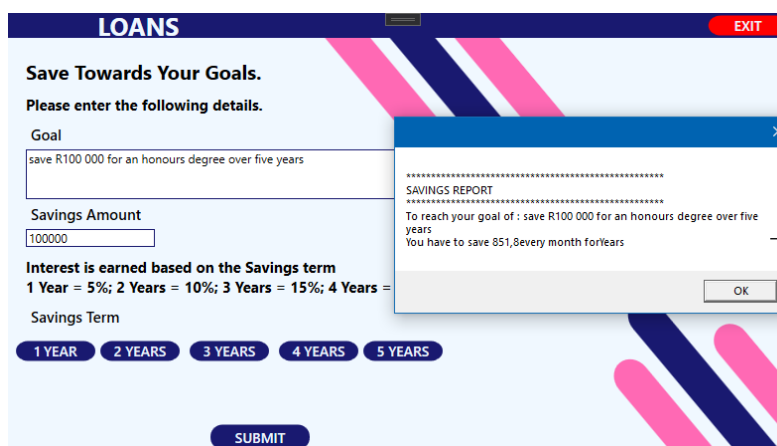
Click Exit button to exit the app.

Textbox to enter the goal of the user.

Textbox to enter the goal amount.

Button options to choose how long the user wants to save.

Submit button to show savings report.



LOANS EXIT

Save Towards Your Goals.

Please enter the following details.

Goal

Savings Amount

Interest is earned based on the Savings term
1 Year = 5%; 2 Years = 10%; 3 Years = 15%; 4 Years = 20%; 5 Years = 25%

Savings Term
1 YEAR **2 YEARS** **3 YEARS** **4 YEARS** **5 YEARS**

SUBMIT

SAVINGS REPORT

To reach your goal of : save R100 000 for an honours degree over five years
You have to save 851,8 every month for 5 years

OK

Savings report

Formulas used in App.

- Simple Interest – Used for home loan and vehicle loan calculations.

A – Final amount

P – Initial Principle balance (purchase price)

r – interest rate

n – number of years

$$A = P(1 + r \cdot t)$$

Divide A by (years*12) to get the monthly home loan repayment

- Future Value – Used for savings calculations.

Fv = future value(goal amount)

n = number of years

i = interest

x = initial amount (monthly saving)

$$Fv = x [((1+i)^n) - 1] / i$$

reversed formula to get the monthly savings amount

$$x = (Fv \cdot i) / [((1+i)^n) - 1]$$