# **Daniel Pienaar**

**Student Number: ST10091943** 

PATHWAY: PROG6221

Lecturer: Hamony Makumbirofa

30 June 2022

**Programming 2A POE User Manual** 

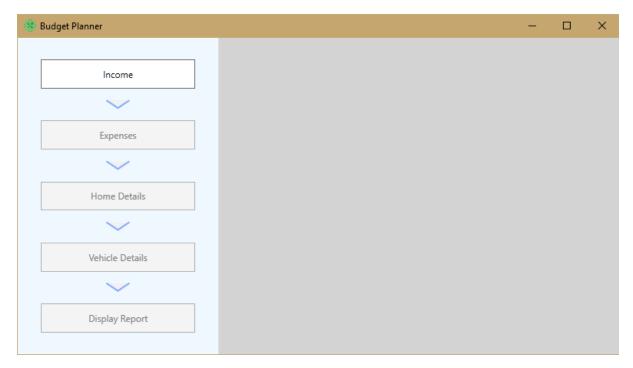
# Table of Contents

1.	BudgetPlannerWPF		3
		MainWindow	
		IncomePage	
		ExpensePage	
		RentPage	
	1.5.	LoanPage	7
		VehiclePage	
		ReportPage	
		Other Features	

#### **BudgetPlannerWPF**

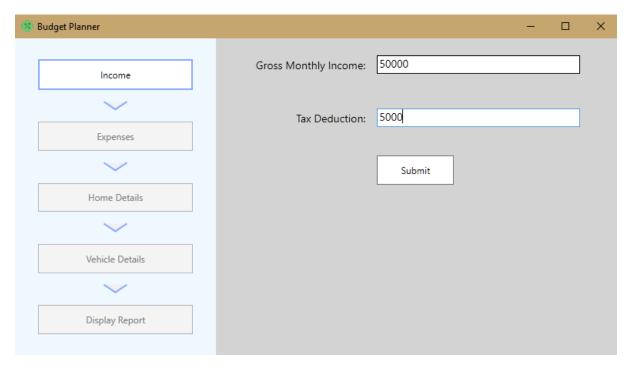
This WPF application helps the user calculate and plan their budget and savings. It consists of a single screen containing multiple pages for each aspect of the program process. User friendliness has been a focus of this app, through features such as automatically moving between pages, highlighting finished or incorrect data, highlighting the selected page, the ability to update your data, and dynamic adjustment for savings values.

#### MainWindow



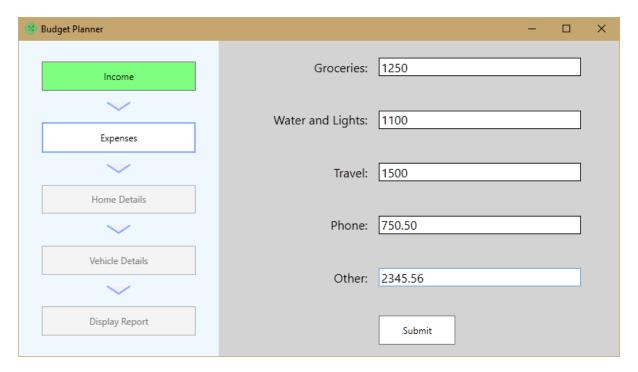
This screen shows on application start-up. This is the only window in the application, the rest of the screens are pages that will appear in the grey area. On the left are buttons with which you can display the pages to input your data. These unlock as you progress down the list. They also turn green or red depending on if the entered data is valid, and the currently selected button will have a blue outline.

# <u>IncomePage</u>

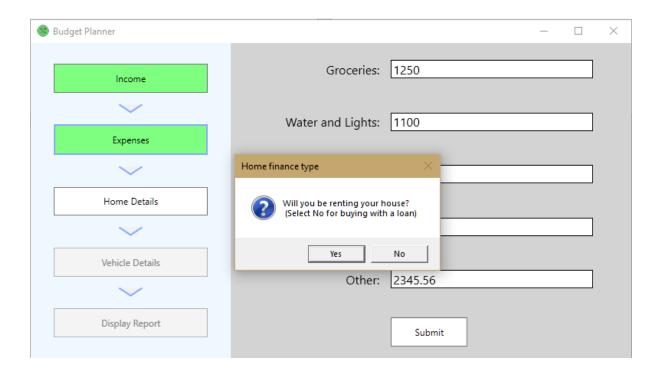


On this page, you enter your gross monthly income and tax deduction. Clicking submit will check the data before moving to the next page.

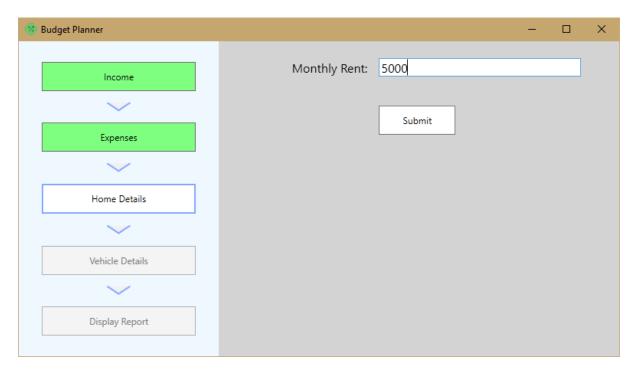
### **ExpensePage**



On this page, the general expenses are entered. When submit is clicked, the user is asked if they would like to rent or buy a house:

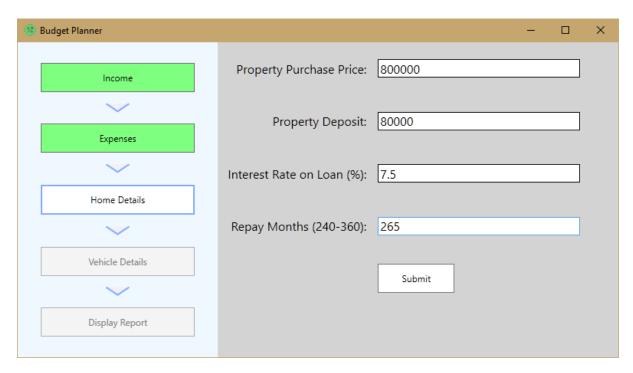


# RentPage

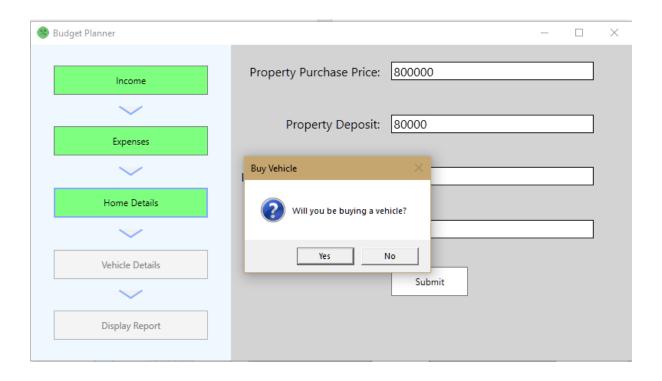


Here the monthly rent is entered.

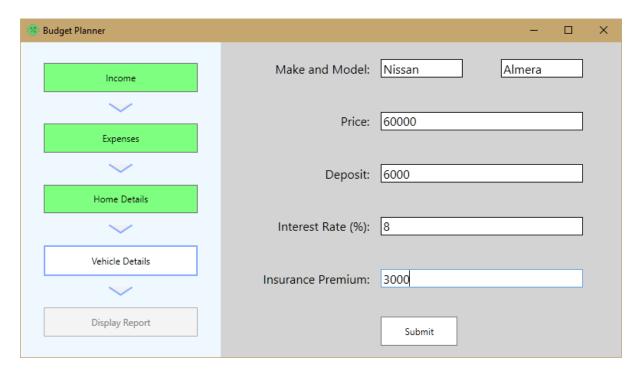
### LoanPage



Alternatively, if you selected No, the loan page will be shown. After clicking submit on either the loan or rent pages, you will be asked if you want to buy a vehicle or not.

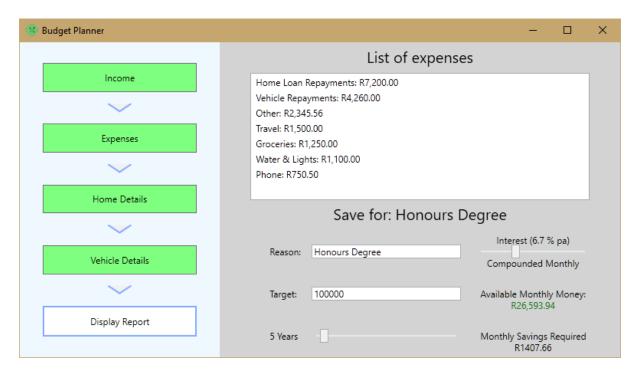


### **VehiclePage**

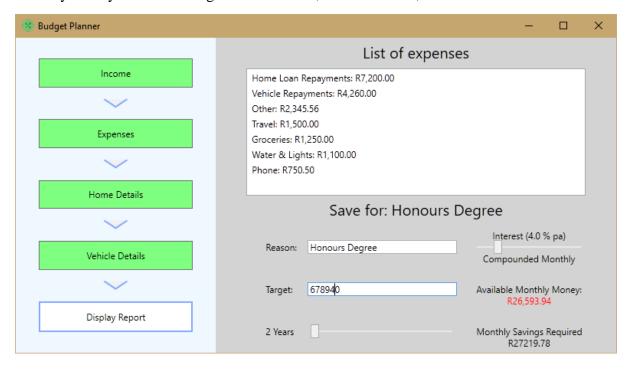


If you selected yes to buy a vehicle, this page will be shown, otherwise the program will skip to the report page and this button will remain disabled. If you change your mind, you can go back and click submit on a home details page again and choose yes when prompted.

### ReportPage

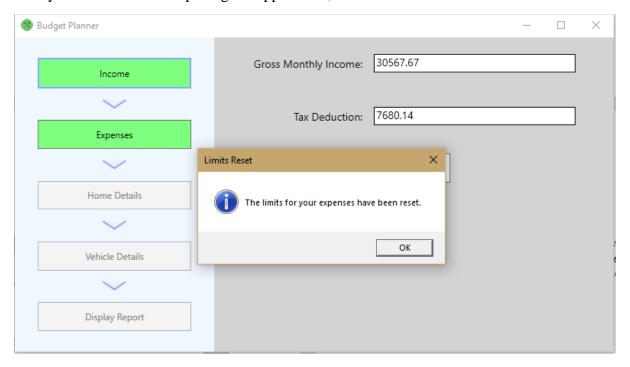


On the final report page, you can see the list of expenses, and a savings calculator at the bottom. Changing the values here will dynamically update the page to display how much you will need to save each month. If this value is lower than your available monthly money, the monthly money value will be green. Otherwise, it will turn red, as shown below:

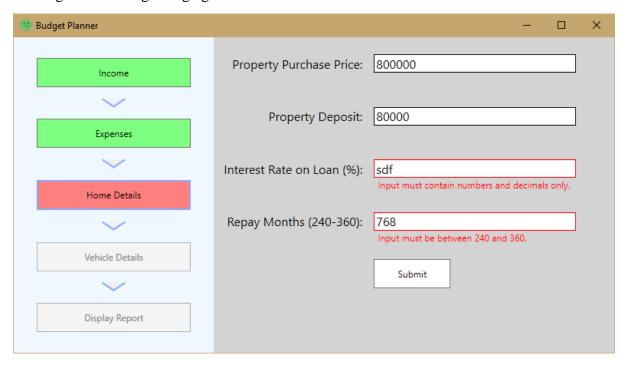


### **Other Features**

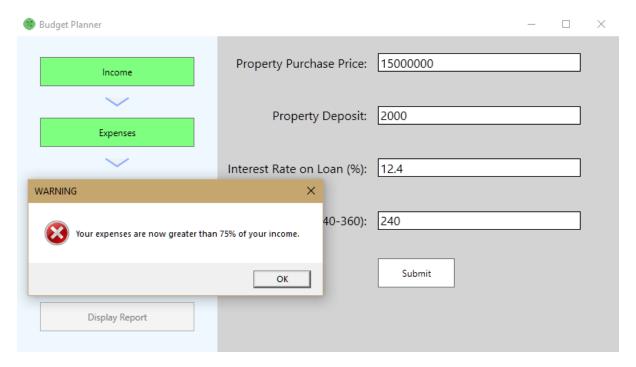
Various other features include notifying you when your expenses are greater than 75% of your income, warning you with visuals if you enter incorrect data, and the ability to update or reset your data without reopening the application, as shown below:



Starting from the beginning again.



Invalid data entry.



The warning shown when your expenses grow too large.