FINAL PROJECT REPORT

ABOUT

MORTGAGE CREDIT SIMULATION

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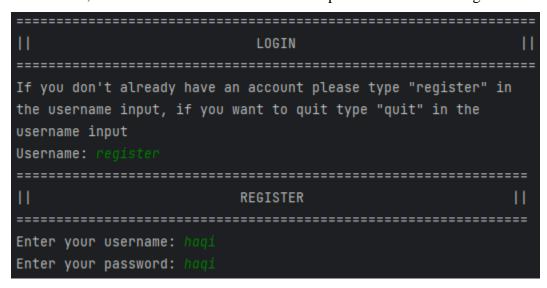
1.1 Flowchart

1.2 Steps to Run the Program

//contains the steps for running the application starting from the first run until all menus are tried to run

The following are the steps for running the application

1. This application consists of various menus, mainly login, register, main, and account information. When the user login the first time the login menu will also ask for the user information, afterward the user doesn't need to input their information again.



______ Ш LOGIN If you don't already have an account please type "register" in the username input, if you want to quit type "quit" in the username input Username: hagi Password: hagi Enter your name: Muhammad Baihagi Aulia Asy'ari Enter your phone number: 082336750134 Please enter your ID card number in this format example: 3573052004691337 Enter your ID card number: 3573050101040001 Enter your salary: 8000000 Are you sure (y/n): y Muhammad Baihaqi Aulia Asy'ari 082336750134 3573050101040001 8000000

	=======================================
MENU	11
1. Credit card menu	
2. Loan menu	
3. Account information	
4. Log out	
5. Quit the program	
menu: 3	

=======================================		==			
H			ACCOUNT INFO		
		==			
H			ll ll		
II .	Name		Muhammad Baihaqi Aulia Asy'ari		
II .			II II		
II .	Phone number		082336750134		
H			ll ll		
H	ID card number		3573050101040001		
H			ll ll		
H	salary		8000000		
II .			ll ll		
		==			
Exit?					
Are you sure (y/n):					

2. Some menus can be explored, unfortunately not all intended features are included. This is due to the time constraint and limitation on what's allowed to be used in Java for this project. The user will find out that any child directories of the "Credit card menu" will always result in "not found" and immediately redirected to the parent directory.

=======================================	=======	======	====	=======	========
GENERAL	PURPOSE	CREDIT	CARD	APPLICATIO	N
=======================================	======		====:		=========
	I				
11	APPLY FO	OR A CRE	DIT (CARD	
	======		====		=========
1. General purpose					
2. Travel					
Lifestyle					
4. Priority					
5. Back to credit ca	rd menu				
menu:					

3. The flaw above is also exhibited by "Apply for a loan" in the "Loan menu" for all loans except for "Mortgage".

```
LOAN ||

1. Apply for a loan

2. Current loan status

3. Back to main menu
menu: 1
```

=======================================	=======	=======================================	========
H	APPLY FOR	A LOAN	H
	=======	=======================================	=======
1. Personal			
2. Auto			
Mortgage			
4. Refinancing			
5. Back to loan menu			
menu: 1			

4. Although, some features are not what they'd seem to be. One function is purposely made to print "not found" if another function has not been used. This is the "Current loan status" menu, where it only outputs something besides "not found" if the user has made a "mortgage simulation" from the "Mortgage" menu in "Apply for a loan".

=======================================		=====
H	LOAN	- 11
		=====
1. Apply for a loan		
2. Current loan status		
3. Back to main menu		
menu: 3		
=======================================		=====
H	MENU	Ш
		=====
1. Credit card menu		
2. Loan menu		
3. Account information		
4. Log out		
5. Quit the program		
menu: 2		
		=====
H	LOAN	Ш
		=====
1. Apply for a loan		
2. Current loan status		
3. Back to main menu		
menu: 2		
=======================================		======
11	LOAN STATUS	Ш
=======================================		======
1 11 1 / - \1 11 1		
II I I II		
1111-11		
- \/ -		
1-1 (/ 1-1		
	- ii	
- \- \/\ - \		
1=1 (=1 (==) (==)	-/ \-/-11-11-1\/-1	
Exit?Are you sure (y/n):		

5. Like what has previously been said, the "Mortgage" menu is the only one in the "Apply for a loan" that is functional. To use the "Mortgage" menu or the "mortgage simulation" the user must input the purpose of the Mortgage.

```
| MORTGAGE LOAN | |
Purpose of Credit
1. Buying a house
2. Renovating
menu:
```

6. When entering the buying menu, the user will be prompted with collateral type that "Renovation" doesn't have. After entering the collateral type the user us again prompted with the building Area. Every decision here is adding a minimum down payment percentage in the background. The last consideration for the minimum down payment percentage is the credit facility which counts the overall credit you own. But for this case, we can enter anything. But entering 2 or 3+ will increase the minimum down payment percentage by up to 10%.

```
| MORTGAGE LOAN | | Purpose of Credit |
1. Buying a house |
2. Renovating |
2. Renovating |
3. House |
2. Apartment |
3. Shop |
4. Building Area (m2): 70 |
4. How many Credit Facilities do you have |
5. Credit Facility: 1
```

7. After entering the value to be considered for the down payment percentage the user is asked for the length of tenor for the mortgage which will affect the calculated max proposed mortgage accounting for the minimum down payment percentage previously

considered in the background. Afterward, the user is asked for their proposed mortgage and down payment. If the down payment proposed by the user is higher than the minimum down payment amount, the user is allowed to readjust their proposed mortgage if needed.

```
Building Area (m2): 70

How many Credit Facilities do you have
Credit Facility: 1

Maximum 20 years tenor
Tenor: 15

Maximum proposed debt: 535,555,667

House price: 450000000

Minimum down payment amount: 45,000,000

Down payment: 50000000

Maximum proposed debt: 532,000,100

House price: 450000000
```

8. Next, a table will display the information the user has entered and will ask if the user is sure about the proposed mortgage, if they are, the data will be stored and the user will be directed to the parent menu, if they aren't so sure, the user will have the chance to reenter the information again.

========		==:	====		=
H	Mortgage /	٩p	plica	ation	Π
		==:	====:		L
H				ı	L
H	Credit facility		1st	ı	Π
H				ı	L
H	House price		IDR	450,000,000	L
H				ı	Π
H	Down payment 11.11%		IDR	50,000,000	L
H				ı	L
H	Debt principal		IDR	400,000,000	L
H				ı	L
H	Tenor		15	ı	L
H				ı	L
H	Interest		7.2	5%	L
H				I	L
H	installment		IDR	3,651,451.52	L
П					1
П	Minimum income		IDR	6,639,002.77	1
П					1
	=======================================	==:	====:		1
Are you sur	e (y/n):				

9. After the user is assured of their own decision, the user could see the information about their loan in the "Current loan status" menu.

11	APPLY FO	DR A LOAN	=
1. Personal 2. Auto 3. Mortgage 4. Refinancing 5. Back to loan menu: 5	======== menu		=
=======================================	==========		
П	LO	DAN II	
			_
 Apply for a l Current loan Back to main menu: 2 	status		
		CTATUC	==
	LUAN	STATUS	П
			=
11	Montagae /	Annlication	
11		Application ===========	
Cred	it facility	: 1st	
Hous	e price	: IDR 450,000,000	
Down	payment 11.11%	: IDR 50,000,000	
Debt	principal	: IDR 400,000,000	
Teno	r	: 15	
Inte	rest	: 7.25%	
inst	allment	: IDR 3,651,451.52	
II		: IDR 6,639,002.77	
Exit?Are you sur	e (y/n):		

10. That is as far as the program goes, to quit the program the user could enter the quit menu in the main menu or log out and type quit.

LOAN
1. Apply for a loan
2. Current loan status
3. Back to main menu
menu: 3
MENU
1. Credit card menu
2. Loan menu
3. Account information
4. Log out
5. Quit the program
menu: 5
QUIT SUCCESSFULLY
Process finished with exit code 0

П	LOGIN	Ш
=======		====
		.n
======		====
П	QUIT SUCCESSFULLY	Ш
=====	=======================================	====
Process	finished with exit code 0	

1.3 Program Code

//contains the code of all the programs that have been created