



## **SAVE MY RIYALS**

---

**PROJECT NAME: SAVE MY RIYLS**

**PREPARED BY:**

**YARA AHMAD ALZAILAI -(444010350)**

**SHIMAA LAFI Al-Zubaidi -(444003238)**

**Fatima belaqem Al-faqih-( 444009531)**

**Reema Ali Alrashdi -(444004209)**

**Waad Mohammed Al-Zhrani -(444014667)**

**PHASE:1**

## **1.1 INTRODUCTION:**

This phase talks about the idea of an application for saving money and the financial and budgeting problems that made us think about this idea. Also stakeholders, functional requirements, and non-functional requirements are included in the application.

## **1.2. PROJECT DESCRIPTION AND PURPOSE:**

### **Idea:**

Save Riyals application is an application that helps to save money and those who want to balance spending and improve the financial situation.

### **Problem:**

Many people face an important problem which is the inability to balance their spending of money .

### **Project Objectives:**

- 1) Ability to balance expenses.
- 2) Conservation and management assistance.
- 3) Improving the financial situation.
- 4) Help improve savings.

## **1.3 Stakeholders:**

Accountants, Users  
(Housewives, employees and  
Student

## **1.4 FUNCTIONAL REQUIRMENTS:**

### **1.4.1 USER REQUERMENTS:**

1- The application must allow the creation of a new account for each user.

Personal information: name, number, email, and password.

2-The application must allow the user to enter his financial balance.

3- The application must suggest solutions to improve the user's budget.

4-The application must allow the user to set a specific limit for spending money.

5- The application must allow the user to set a savings percentage.

6-The application must send alert notifications when approaching exceeding the spending limit.

### **1.4.2 SYSTEM REQUERMENTS:**

1-sign in :

1.1-The bank card number is entered

2.1-He saves the card and places it in his wallet

3- The user can add more than one bank card and save it in a private wallet

4.1-For each card placed by the user, the system separates them from each other and places them in a special section and determines the amount and the rest of the details of this bank card.

2 Dividing money or setting a budget:

1.2 After the user inserts the bank card, the system displays this amount

2.2 The user puts in the priority list the things he wants to buy and specifies the amount for each thing he wants to buy in order for the system to know how much money is being taken.

3.2 The system determines the remaining amount and saves it.

### 3- Side solutions:

1.3 The system produces more solutions and suggestions in order to save this remaining money

2.3 The suggestions will be in a special section in the form of a detailed list of these suggestions

### 4 Spending limit:

1.4 After entering the current amount and dividing all the money according to priorities, the user sets a limit

2.4 For example, per day, the user sets a small amount to be spent per day. If the amount exceeds the limit, he sends an alert notification (You have exceeded the daily spending limit).

### 5 Invoice calculation:

1.5 The system issues an invoice for every day, every week, and every month for the money that was spent and what it was spent on, for example.

invoice

2.5 Example: Sunday 1/1/2020

The daily limit spent is 75.38 riyals

And so on

### 6 Saving:

1.6 After calculating the remaining amount, the system either gives a percentage proportional to the user's current amount, or it is optional

2.6 The system allows the user to briefly set or specify an amount for saving. It may be optional for the user, or the system may set a specific percentage based on the current amount.

## **1.5 NON-FUNCTIONAL REQUERMENTS:**

1. The application must be able to carry out operations quickly and effectively not more 5 seconds while achieving immediate response to users to achieve excellent performance and smooth user experience.
2. After logging in, a list of security policies is displayed, and when the user agrees to them, the policies listed and approved are followed, and the user's data is also encrypted to protect it from any leakage or unauthorized use.
3. Design the application using graphics that facilitate the user's understanding of the application's features and that it be suitable for all categories.
4. The application must be designed in a way that allows it to add new features, allows it to be maintained and updated on a sustainable basis, and allows errors to be discovered, if any, and corrected.

# PHASE:2

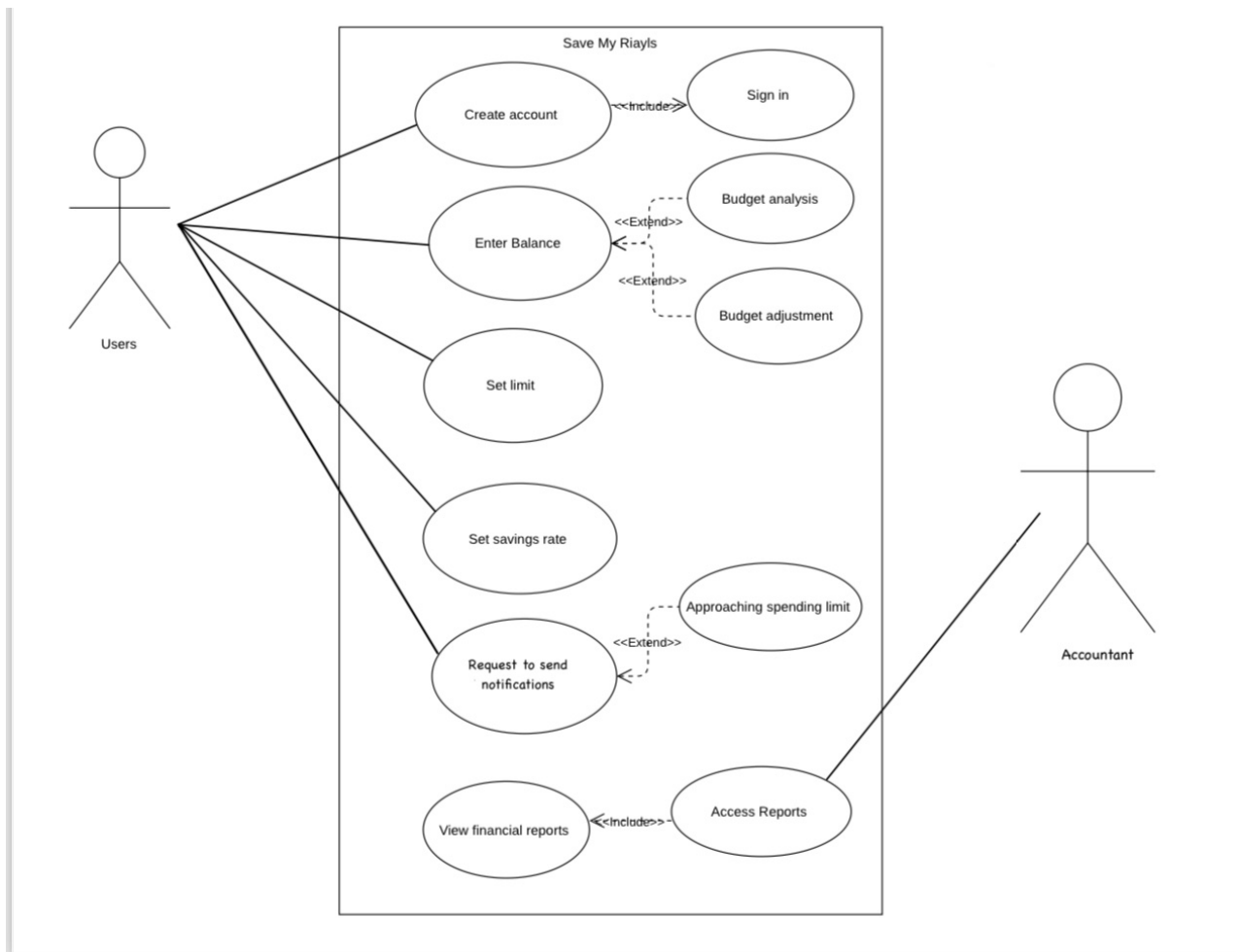
## 2.1 INTRODUCTION:

### 1-Introduction:

At this stage, we must define and present the following diagrams that help us clarify the project:

## 2.2 SYSTEM DIAGRAMS:

### 2.2.1 USE CASE DIAGRAM





User case Description -Enter Balance.

System	Actor	Use Case	Description	Data	Stimulus	Response	Comments
SAVE MY Riyals	User	Enter Balance	Lets for the user Adjust Enter the balance Filters Current in the account	Account number balance	the user He enters His current balance	The system records Balance New in Database	Must be verified It is true data entered before Register it in the system

## Use Case Description-Access Report

system	Actor	Description	Use case	Data	Stimulus	Response	Comments
Save My Riyals	Accountant	This use allows the user to access reports stored in the system. This includes the ability to browse available reports and select the desired report To display it.	Access Report	Report type Like a report the sales performance report, Start Date, Expiry date Standards Liquidation	the user He opens Application And he wants to View report specific	is displayed the report What is required is constructive On standards specified	Can expand this the use To include features Additional like Export reports Or share it with Users others

## Use Case Description-Set Saving Rate

system	Actor	Description	Use case	Data	Stimulus	Response	Comments
SAVE MY Riyals	User	Lets for the user Determine the rate Savings	Set Saving Rate	Saving Rate Savings	the user He enters Savings rate the new	The system is up Update Savings rate And confirm the change for the user	It must be Savings rate Positive value And it must be within the range allow to Must be provided confirmation message for the user Successfully changed Savings rate And if not Value compatibility With scope allow to must be displayed wrong message for the



## Use Case Description-Create Account

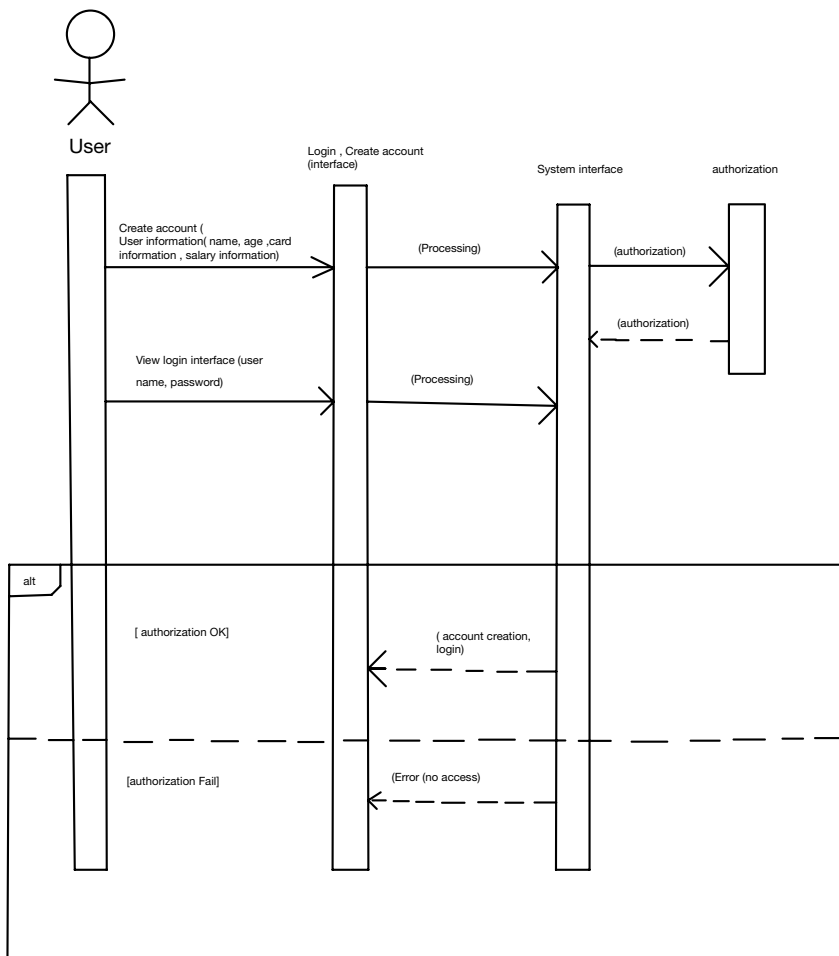
system	Actor	Description	Use case	Data	Stimulus	Response	Comments
Save My Riyals	User	This is the Uselets Case for the user Create an account New in System, where He enters His information Personal Like a name the user Mail electronic, And password.	Create Account	User's information the user name Mail Email password	the user Arrives at the account creation page and wants to join the system	It is verified It is true the information Entry And create the account Successfully. - Complete Sending a Message Confirm to Mail Email Presenter	Must be available Mail validity Email Effective. He should Non-existence name User in Database pre.

## User case Description -set limit.

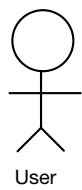
System	Actor	Use Case	Description	Data	catalst	Response	Comments
SAVE MY Riyals	User	Set limit	Describe this the condition Usability Identification process The teacher's limit Certain like Adjust Spending limit On a card Filters .Credit	Limit type (for example Example, spending to withdraw) - Limit amount. representative Adjust the user (If so suitable)	The user initiates the request to set or update the limit via the application or system interface.	The system verifies identification the user. The system does Update the limit   Based on data the introduction. The system does Sure Update The successful .one	Considerations:- a guarantee Authentication The correct one Prevention Changes are not authorized. - to treat Errors For entries other than correct or System failure. registration Changes the border the stuff .Auditing

System	Use case	Discription	data	stimulus	Response	comment	Actor
SAVE MY RIYLS	Request to send notifications	<p>The user can modify notification settings in the app. This is done by accessing the Settings screen, then Notifications, where he selects the notifications he wishes to modify, such as changing the notification sound or activating/disabling certain notifications. After that, he confirms the changes he made.</p>	New notification data	The user clicks on the Edit Notifications button	The data is updated and recorded in a database	You must ensure that the new settings are compatible with system restrictions and that they correctly represent the user's preferences	User

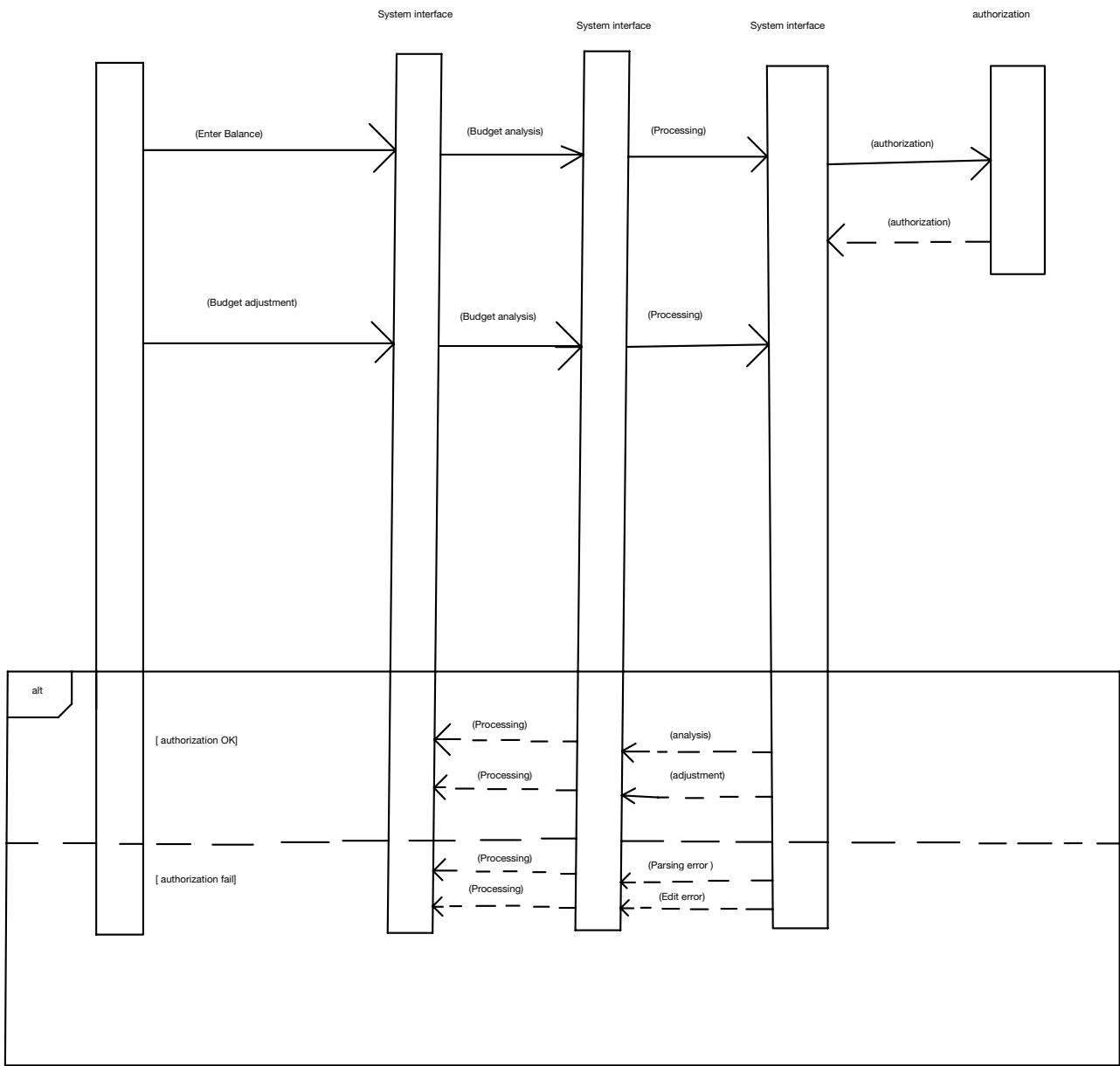
## Creat account



# Enter Balance

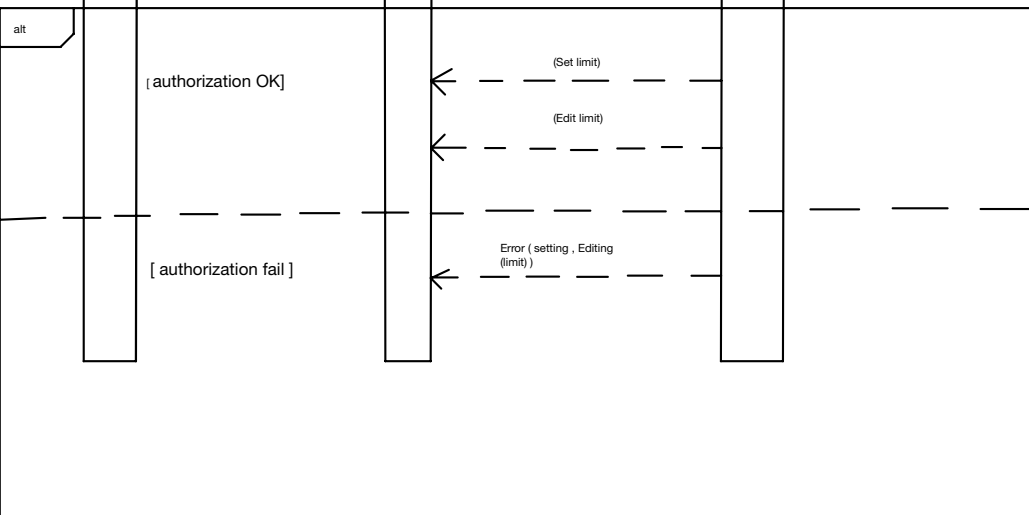
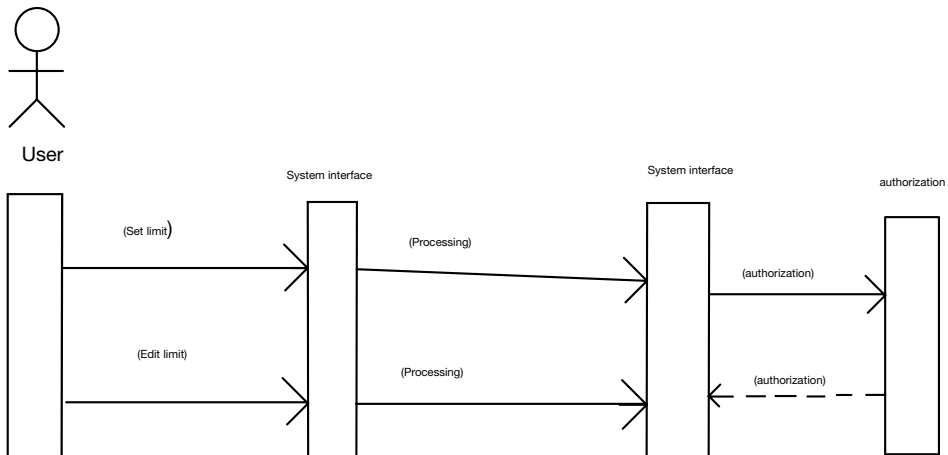


User

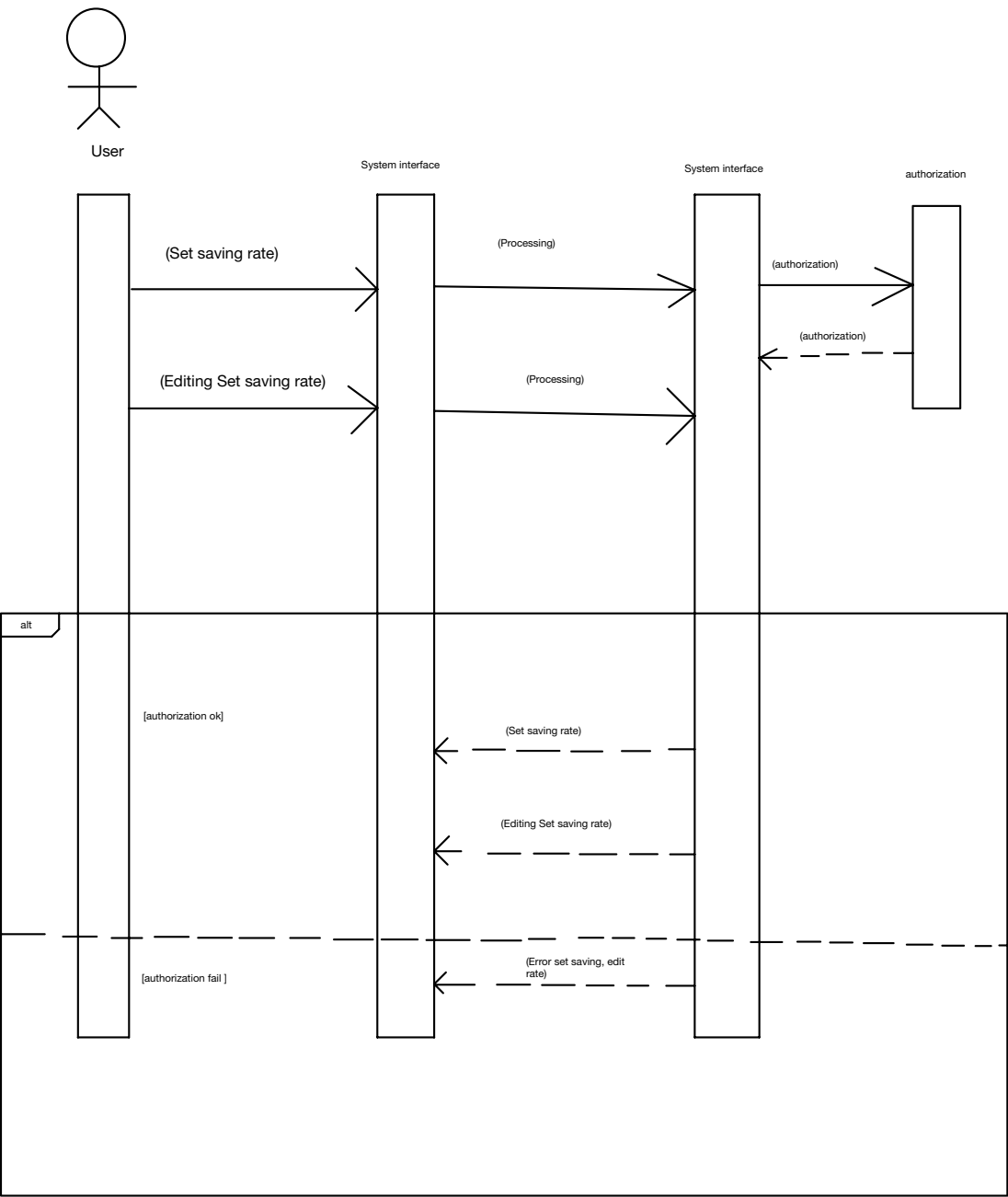




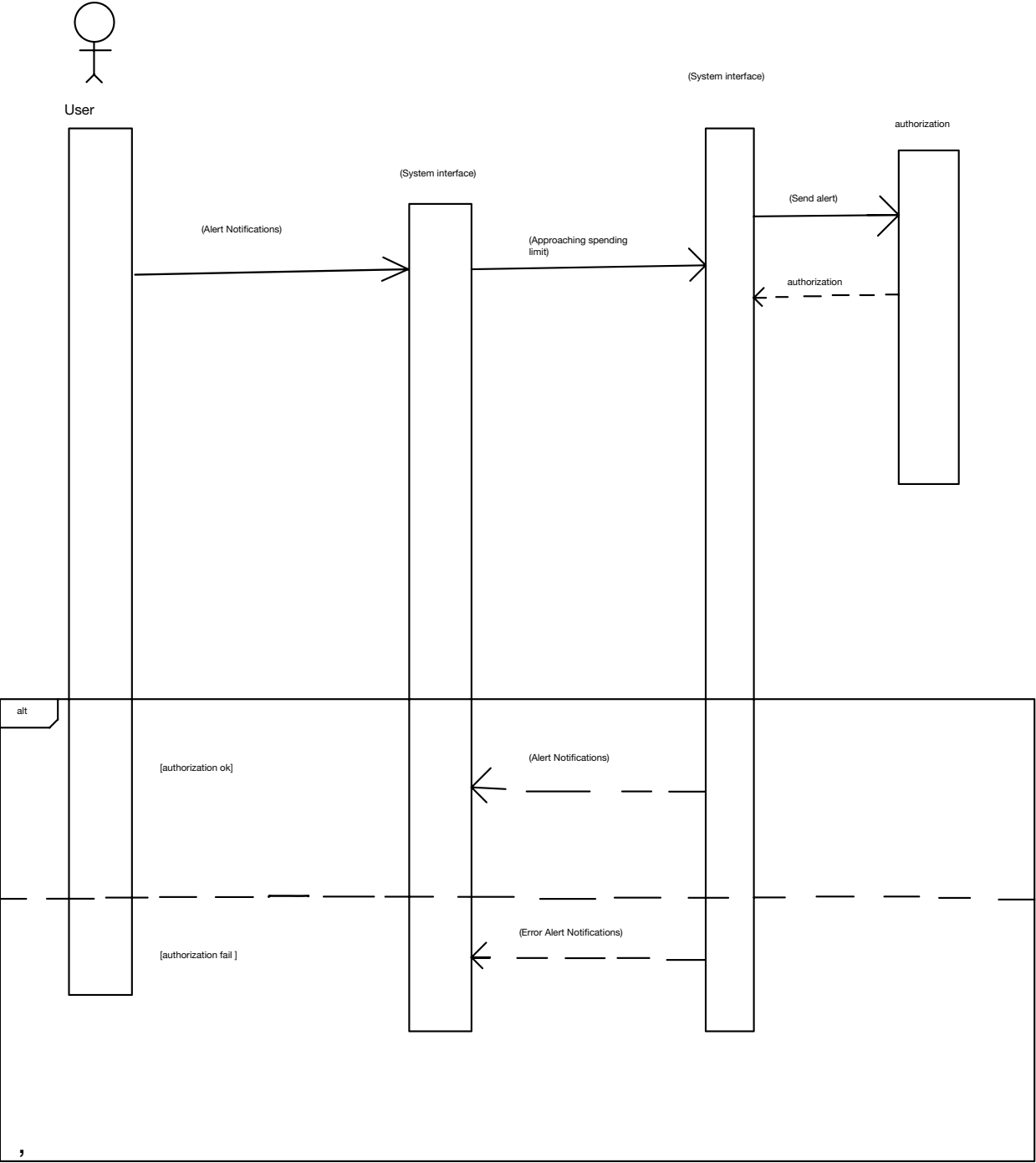
## Set limit

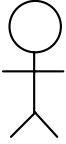


Set savings rate

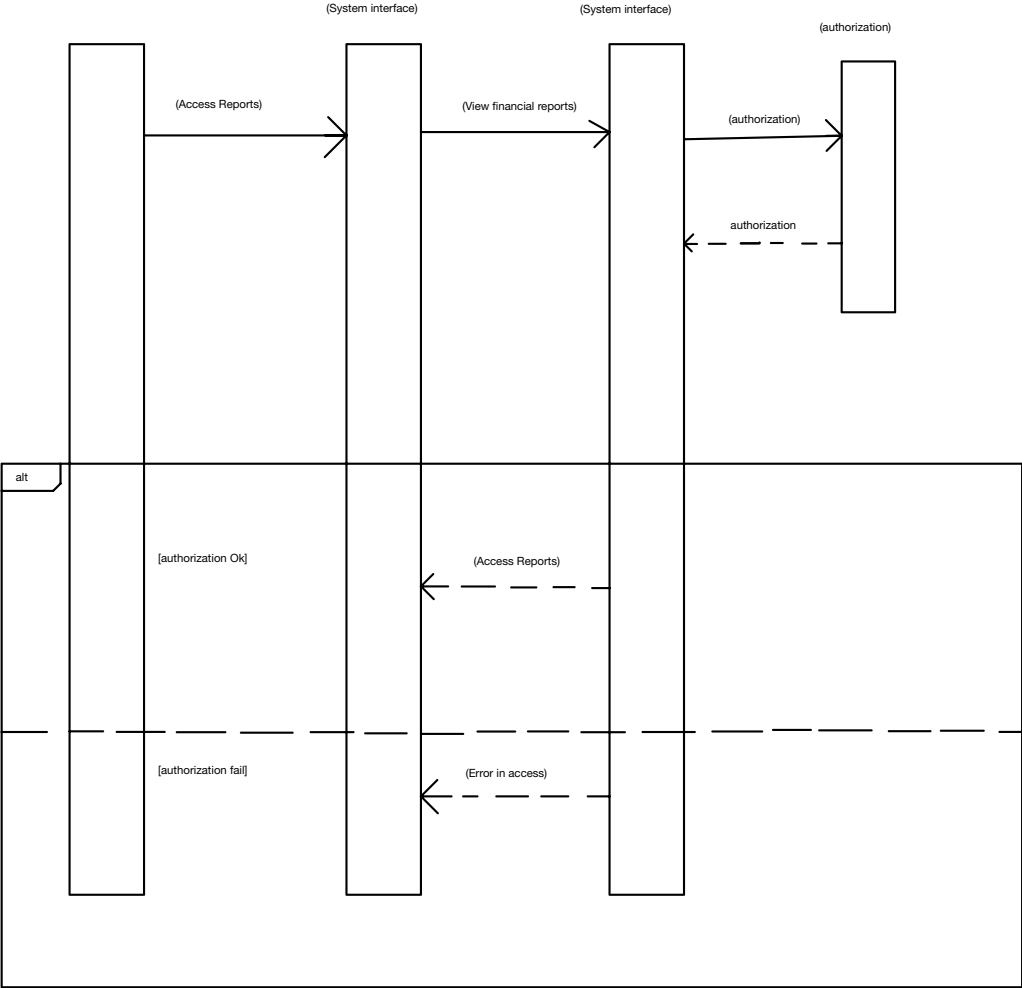


Alert Notification

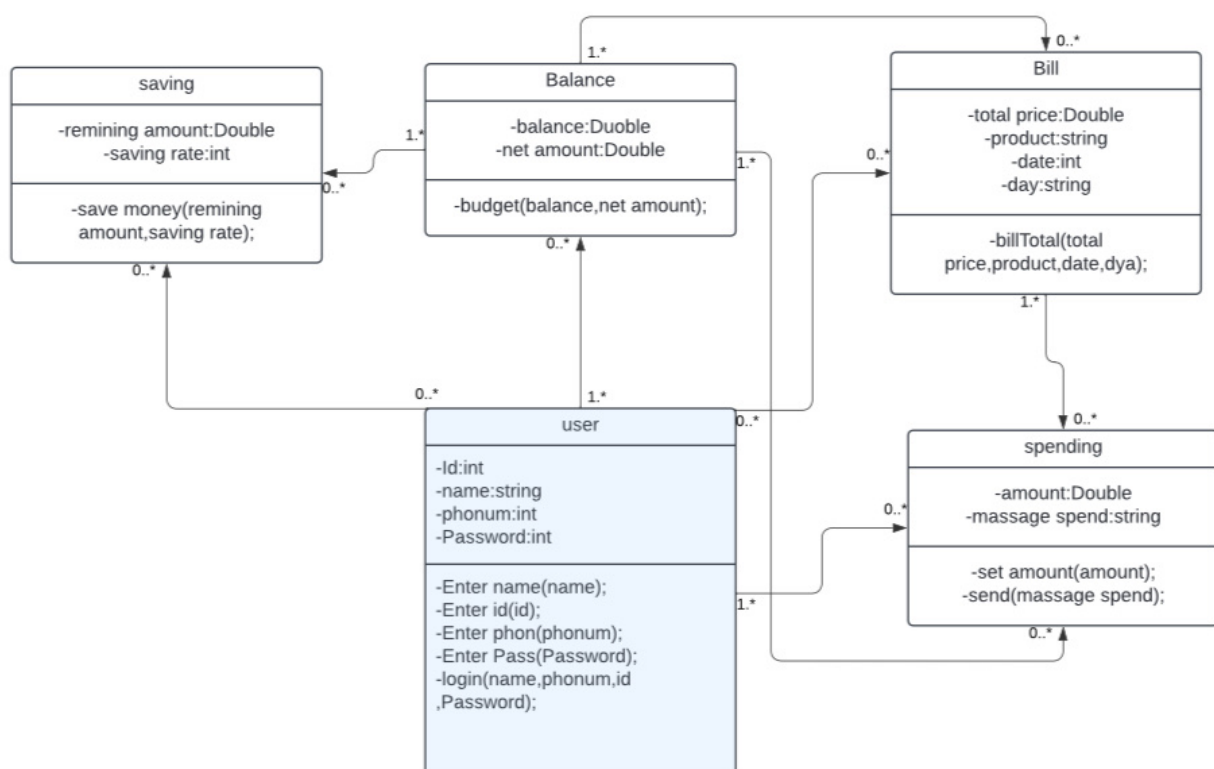




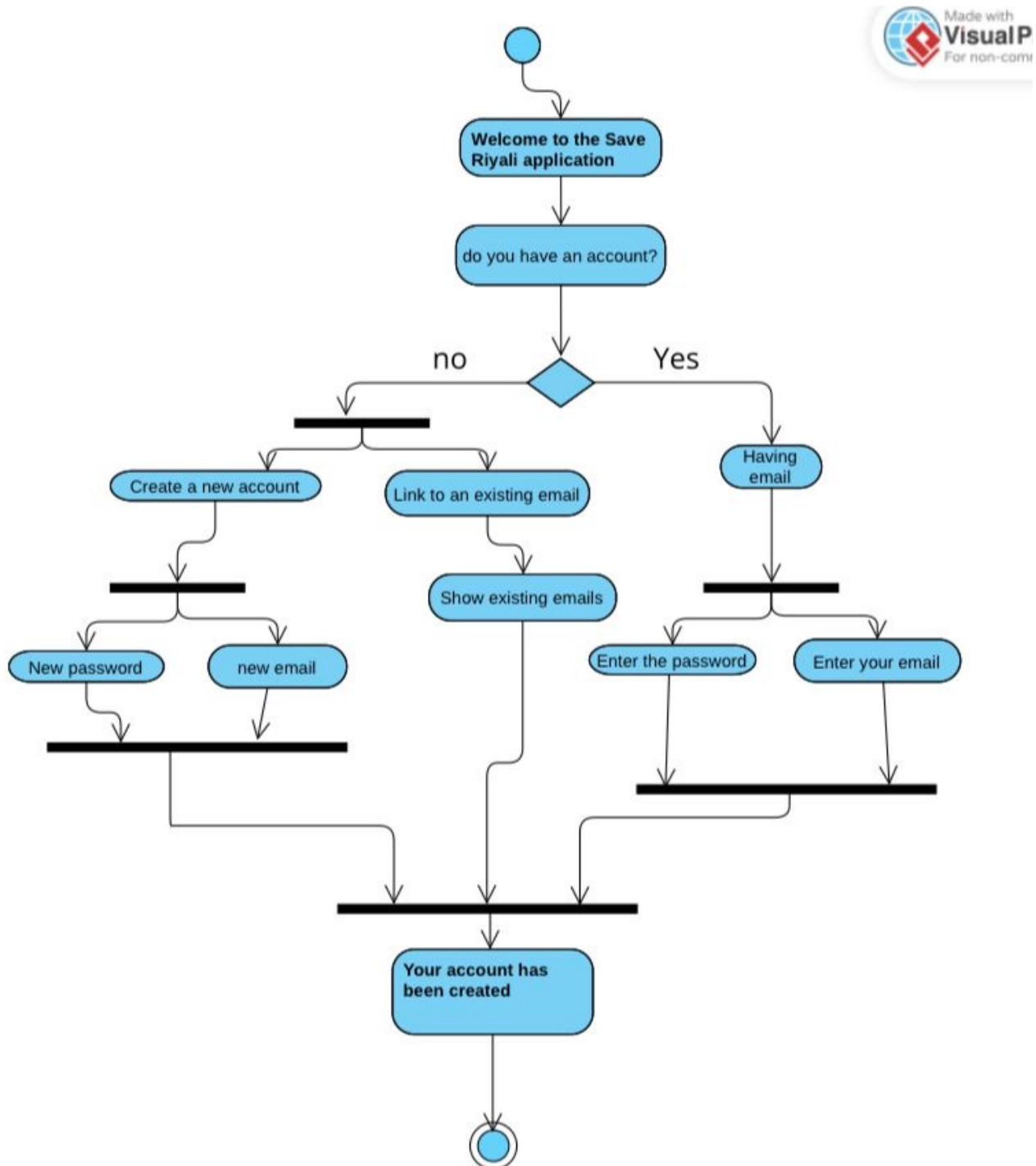
Accountant

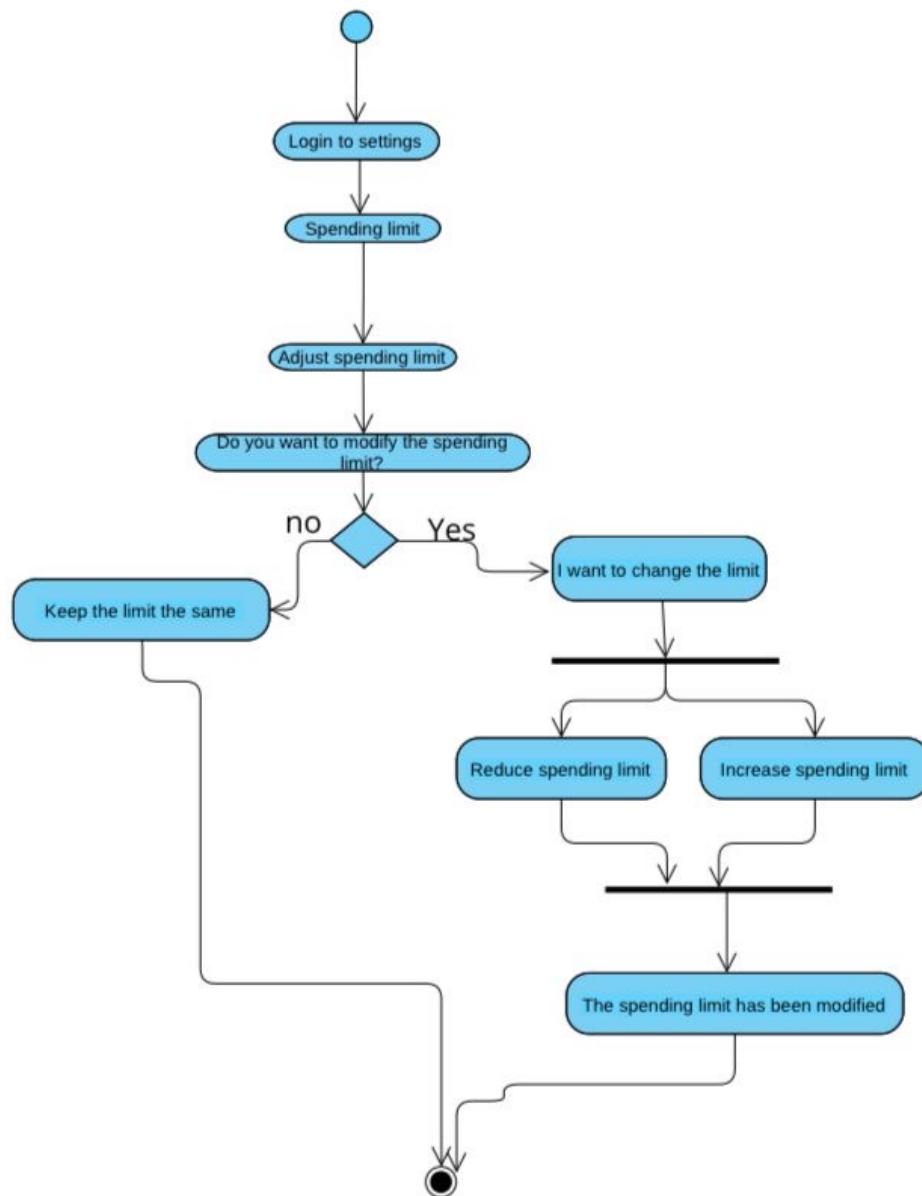


## 2.2.3 CLASS DIAGRAM



## 2.2.4 ACTIVITY DIAGRAM





## **2.3 CONCLUSION:**

The main points of the project are to help save and manage money and improve the person's financial situation. The result of the project is the person's ability to budget his expenses. Some of the restrictions present in the project are: creating an account, setting a spending limit, determining the savings rate,

## **2.4 FUTURE WORK:**

Improving and developing the application to include merchants, the wealthy, and investors as stakeholders