B-PURSE SYSTEM

Software Design Description(SDD)

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Doc Version: 1.0

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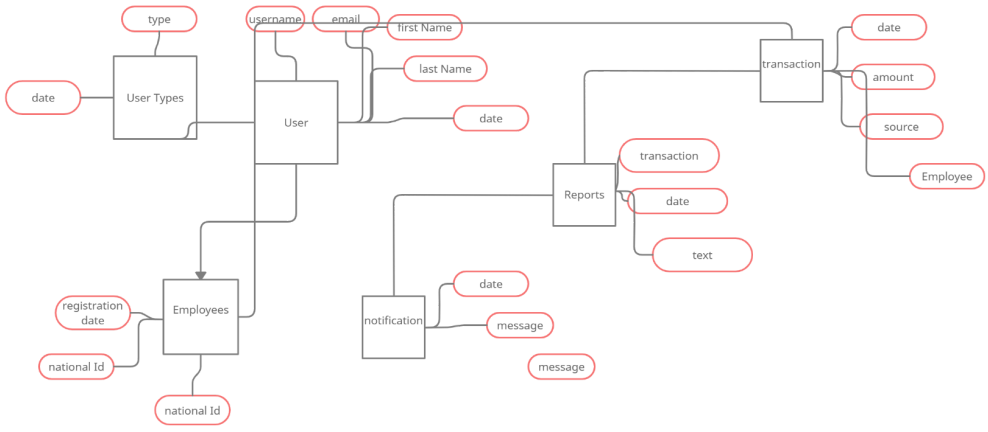
1. Introduction

The goal of this project is to make budgeting and transaction tracking easier for accountants. The majority of the time, accounts are handled manually utilizing excel sheets. Keeping track of the records is quite time-consuming. By developing software that can be utilised at any time, we want to reduce the complexity of managing transactions and budgets.

2.Database Design

Entity Relationship Model



Entity Relationship Diagram

List of Abbreviations

3.Data Dictionary

This is the data dictionary of the application. It contains all the main tables we will use in the system with the attribute name, description, data type, constraints if the attribute is required, and the example for each attribute and for each table.

attributes					
name	description	data type	Another Constraints	is required	example
id	The id of the user	int(8)	Primary key	TRUE	1
First name	the first name of the user	varchar(20)		TRUE	Kalisa
email	the email of the user	varchar(30)	unique	TRUE	kalisa@gmail.com
phone	The phone of the user	varchar(15)	unique	FALSE	0783384212
Last Name	The last name of the user	varchar(20)		TRUE	Augustin
role	The role of the user	enum		TRUE	ADMIN
id	The identifier of the event	int(8)	Primary key	TRUE	1
user_id	The reference to the creator	int(8)	Foreign key	TRUE	1
message	The message from user	varchar(100)		TRUE	Transaction was successfully
notification_type	The type of notification	varchar(50)		FALSE	success
date	The datetime notification was recieved	datetime		TRUE	2020-12-12 08:00:15
id	The identifier of the comment	int	Primary key	TRUE	32
user_id	The reference to the creator	int	Foreign key	TRUE	243
report_id	The reference to the report	int	Foreign key	TRUE	3244

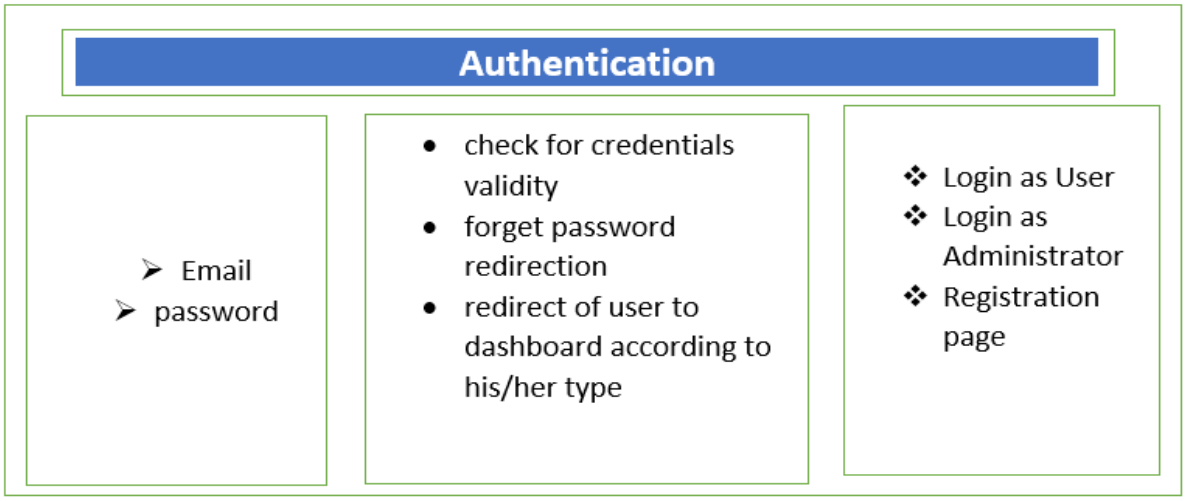
comment	The comment of the user	varchar(100)		True	This is a nice report
date	The datetime comment was made on a report	datetime		TRUE	2020-12-12 08:00:15
id	The identifier of the report	int	Primary key	TRUE	35
transaction_id	The reference to the transaction	int	Foreign key	TRUE	2121
text	Detailed report message	varchar(200)		TRUE	Two students deposited twenty thousand frw
date	The datetime report was generated	datetime		TRUE	2020-12-12 08:00:15
id	The identifier of the employee	int	Primary Key	TRUE	11
user_id	The reference to the user	int	Foreign key	TRUE	25
national_id	The national identifier of employee	varchar(16)		TRUE	122313123674724
registration_date	The datetime employee was created	datetime		TRUE	2020-12-12 08:00:15
id	The identifier of the tag	int	Primary key	TRUE	34
employee_id	The reference to the employee	int	Foreign Key	TRUE	456
amount	The amount of money transacted	float		TRUE	100.250
source	Source of the money	varchar		TRUE	From the bank
date	The datetime transaction was	datetime		TRUE	2020-12-12 08:00:15

	made				

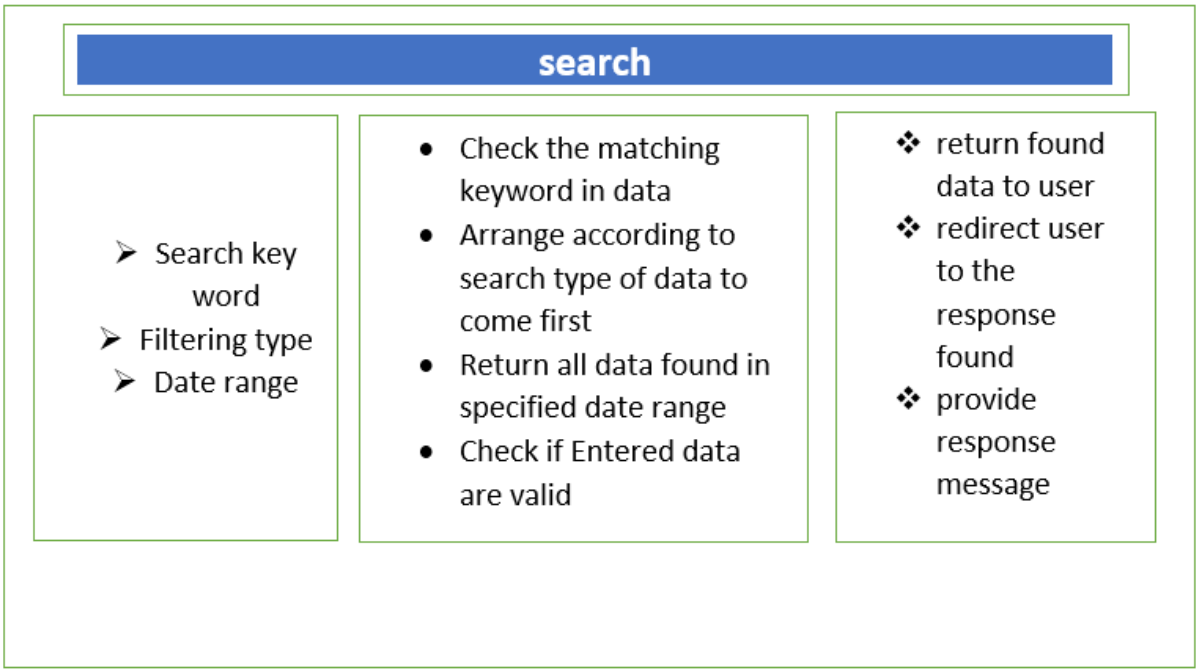
4.Hierarchical Input output Diagram(Hipo)

This is among the very inport diagrams in project design and analysis as it is the diagram that shows the input to the system and the process that occurs to produce final output according to different functionality in this B-purse system.

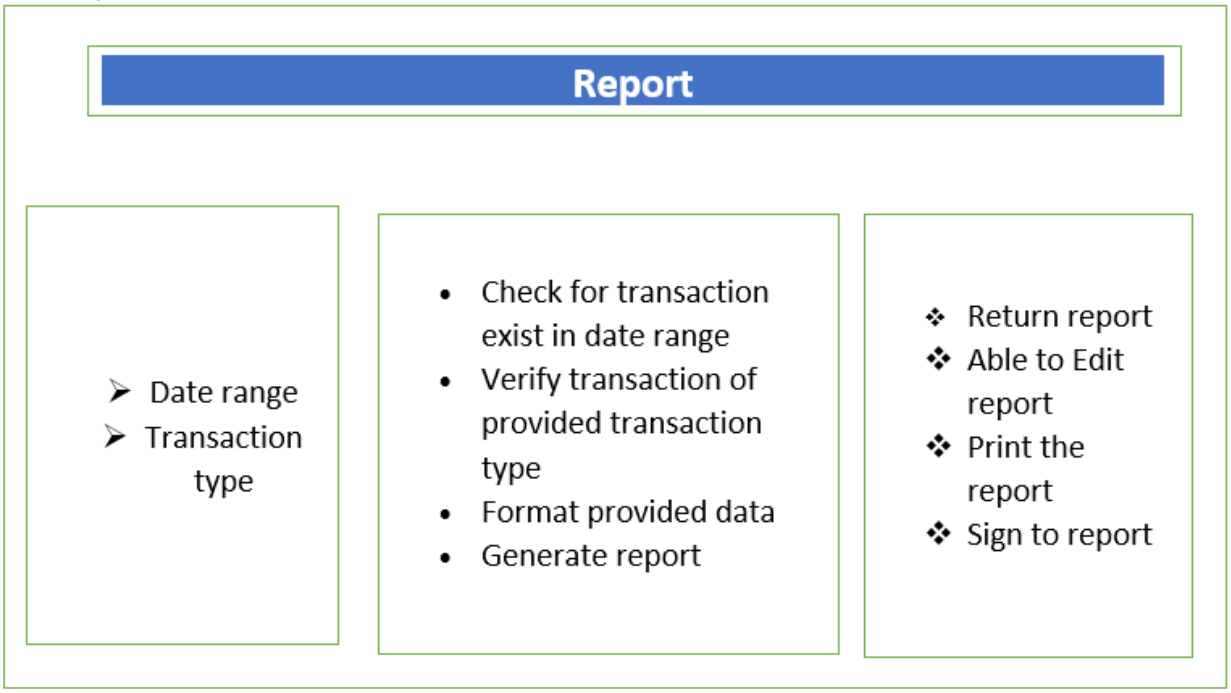
In Authentication



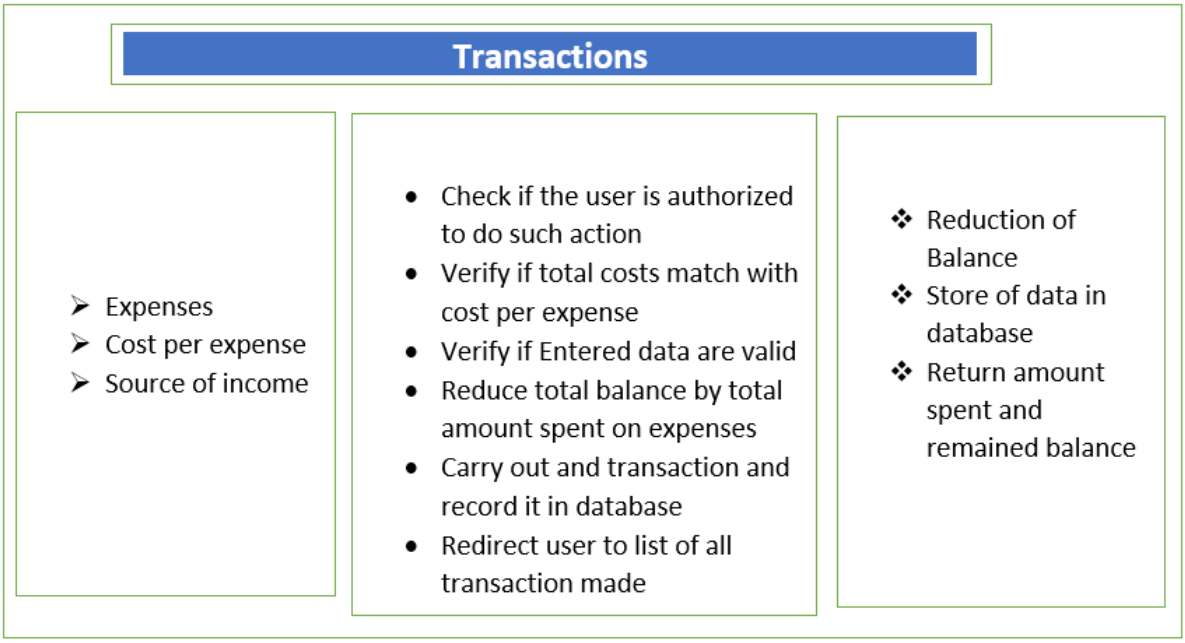
Search



Report

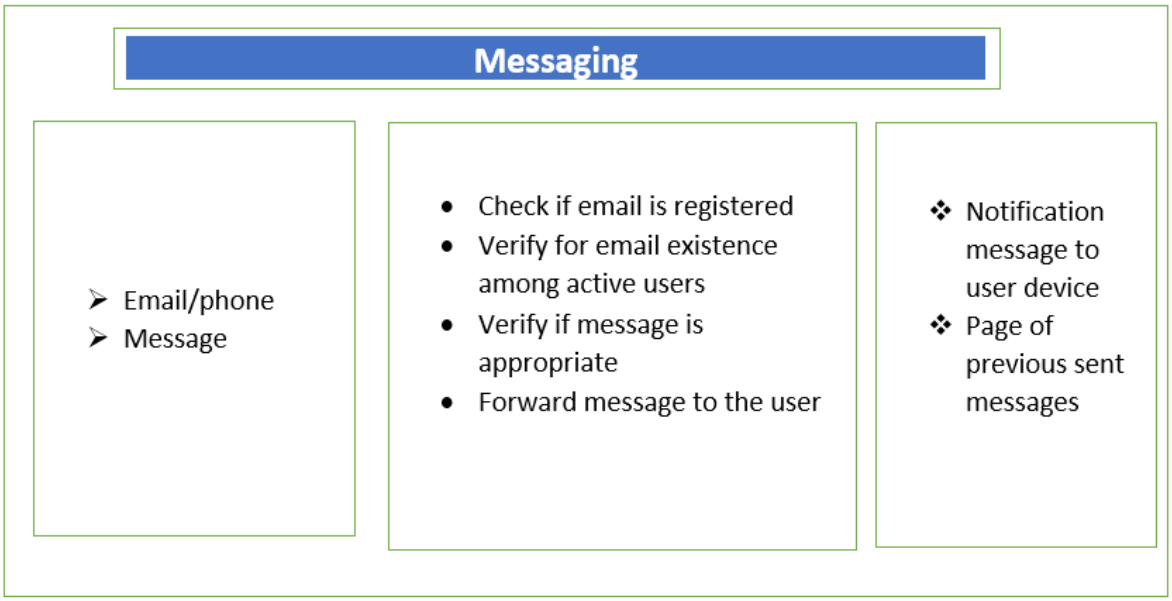


Transactions



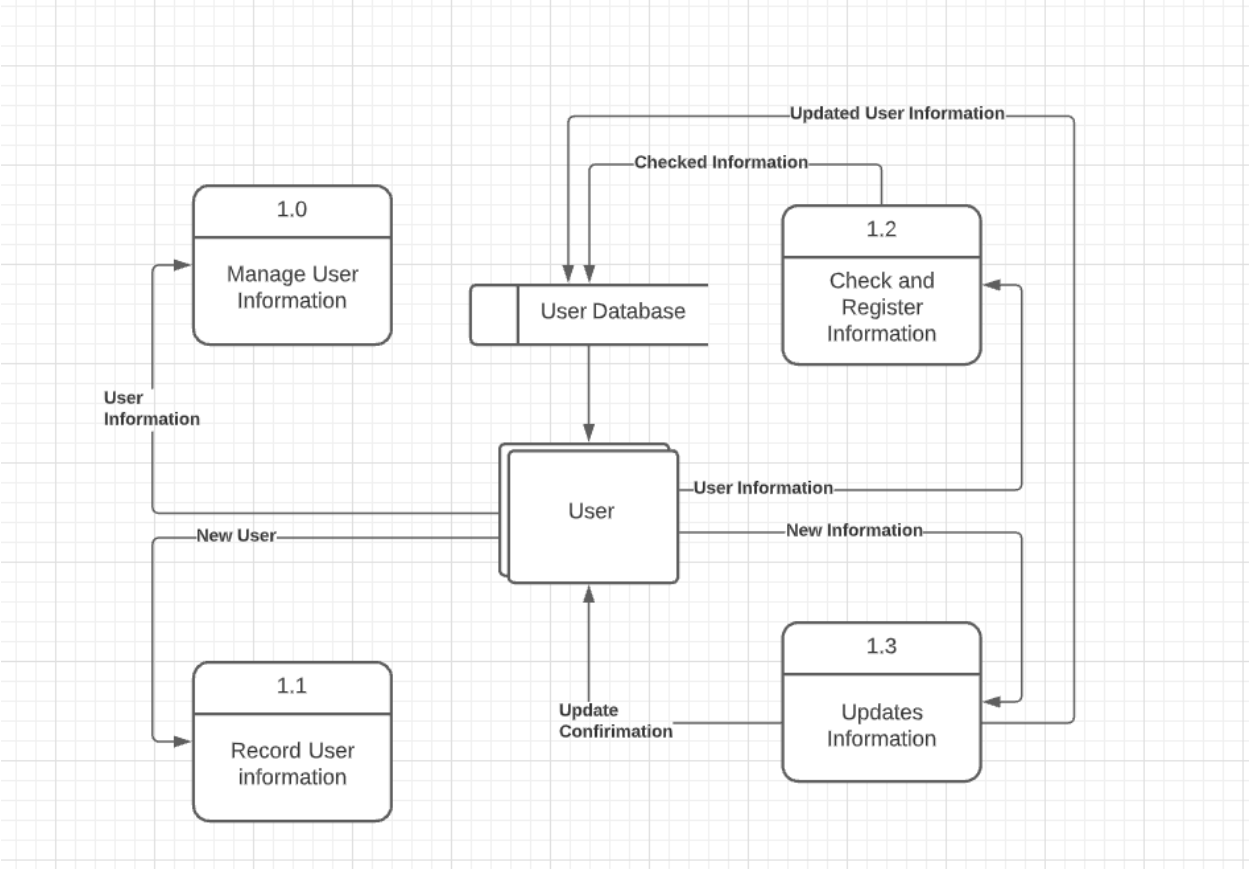
Messaging

Messaging



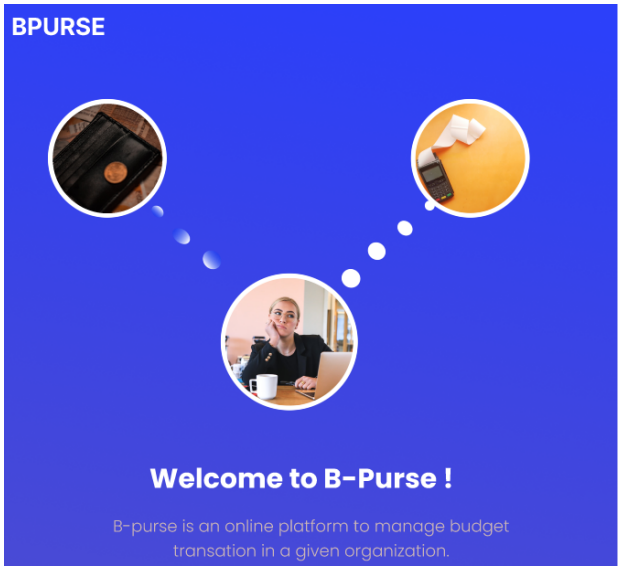
5.Data Flow Diagram

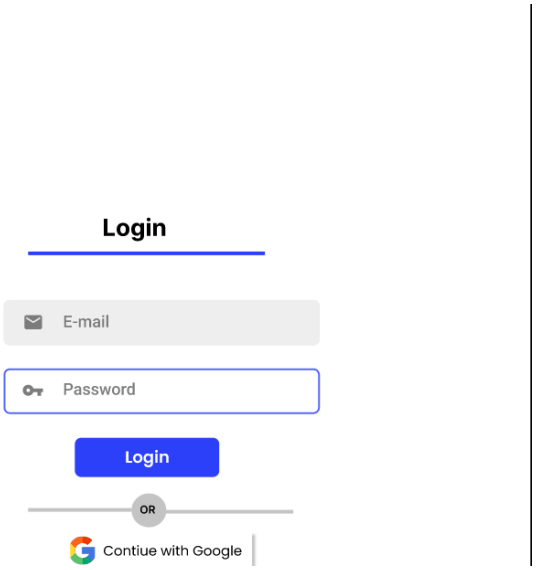
User Management Module



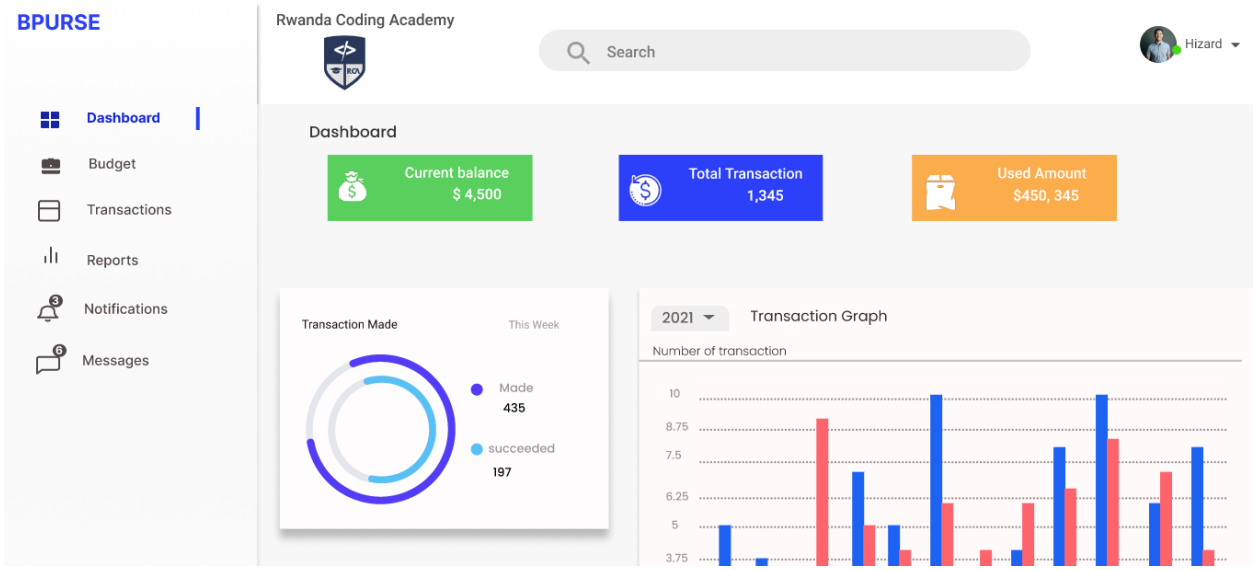
Budget Management Module

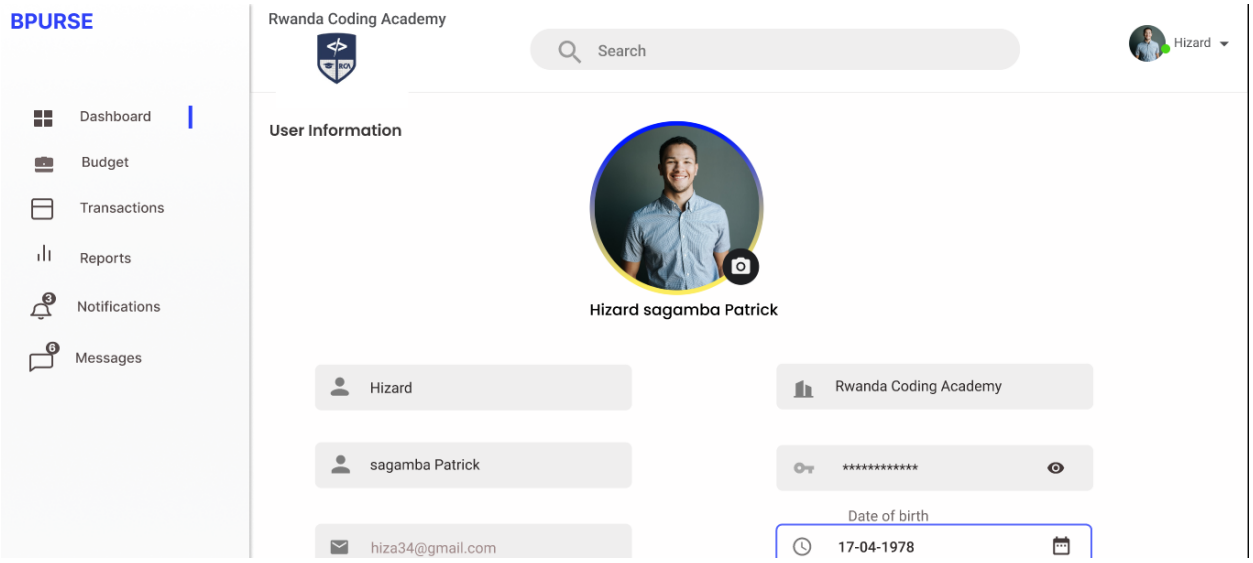
6.User interface


BPURSE
Welcome to B-Purse !
B-purse is an online platform to manage budget transation in a given organization.


Login
E-mail
Password
Login
OR
Contiue with Google

dashboard


BPURSE
Rwanda Coding Academy
Search
Hizard
Dashboard
Budget
Transactions
Reports
Notifications
Messages
Dashboard
Current balance
$ 4,500
Total Transaction
1,345
Used Amount
$450, 345
Transaction Made
This Week
Made
435
succeeded
197
2021
Transaction Graph
Number of transaction
10
8.75
7.5
6.25
5
3.75



More screens can be found here:
https://www.figma.com/proto/B1AWlKw468zNVLa2ZZJsYl/B-purse-App?scaling=scale-down-width&page-id=0%3A1&node-id=71%3A61