

# **Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY**

Near Jnana Bharathi Campus, Bengalooru-560 056.

(An Autonomous Institution, Aided by Government of Karnataka)



**Project Report**

on

## **“HOUSEHOLD SAVINGS AND EXPENDITURE”**

**Submitted By**

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**Dr. AIT**

**Department of Computer Science & Engineering**

**2022-2023**

# Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

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## CERTIFICATE

This is to certify that the project entitled “**Household Savings and Expenditure**” submitted in the partial fulfillment of the requirement of the 5<sup>th</sup> semester DBA laboratory curriculum during the year 2022-23 is a result of bonafide work carried out by

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Signature of the guides:

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1. Internal Examiner \_\_\_\_\_
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**Dr. Siddaraju**

H.O.D

Department of CSE, Dr. AIT

## ACKNOWLEDGEMENT

The satisfaction that accompanies to this project would be incomplete without the mention of the people who made it possible, without whose constant guidance and encouragement would have made our efforts go in vain.

We consider ourselves privileged to express our gratitude and respect towards all those who guided us through the project, **“Household Savings and Expenditure”**.

We would like to express our gratitude to **Dr. M Meenakshi, Principal, Dr. A.I.T.**, for providing us the congenial environment to work in.

We would like to express our profuse gratitude to **Dr. Siddaraju, HOD, Dept. of Computer Science & Engineering, Dr. AIT**, for giving us the support, encouragement and providing us the required lab facilities that was necessary for the completion of this project.

As a token of gratitude, we would like to acknowledge our sincere gratefulness to our internal guide **Mrs. Dr Asha , Assoc. Prof., Dept. of CSE, Dr.A.I.T.**, for her unlimited support and encouragement provided throughout the process.

We also express our gratitude and sincere thanks to all the teaching and non-teaching staff of **Computer Science & Engineering Department**.

Finally, yet importantly, we would like to express our heartfelt thanks to our beloved **Parents** for their blessings and our **Friends** for their help and wishes for the successful completion of this project report.

**Sathish G K**

**Shivaprasad P H**

## **ABSTRACT**

People need to set goals, identify their income and expenses, design a budget that accommodates their lifestyle. Planning their budget prior avoids mistakes and unnecessary expenses, and also enables savings for a better financial future. The main objective of the "Household savings and expenditure management system" is all about the analysis of expenditure and income patterns of households. It focuses on the importance of financial entities such as sources of income, expenses, loans\EMIs, and savings and how they can be managed to achieve the budget goals in a household. This project also helps us to identify major components of household expenditures such as food, education, loans, insurances, healthcare, bills, clothing, accommodation and others and savings that can be done in relation to the household income. In order to achieve the maximum savings and minimum expenditure, designing a budget and executing the plan is very important. Using "Household savings and expenditure management system" we can create a profile of a member and add their income, budget, and expenses. The INCOME includes several categories/sources of income. The expenses are categorized and considered negative and get deducted from the total income. The BUDGET includes healthcare, recreation, automobile etc and the money necessary for them. And the EXPENSES are entered.

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## Chapter 1

### INTRODUCTION

Household savings and expenditure (HSE) management System is a virtual place where one can record their income, expenses, loan and budget on the go and also searches for them easily.

#### 1.Problem Statement :

The reason why we selected household savings and expenditure management Web services is that everybody walking down the street will get an opportunity to have some idea about expenses management. The aim of this project, Household Savings and Expenditure (HSE) Management is to meet the following objectives:

#### 2.Objectives:

- To review the income, expenses and savings over a given period of time.
- To judge the gap between the actual expenditure and the desired savings.
- To help the management in exercising household control.
- Helps to strengthen the management skills of a person in regard with maintaining his/her expenses and savings.
- Provide clarity of the income one has obtained and also the expenditure and savings done by that particular person.
- To develop a Manager where transaction can be recorded easily and also it can be modified according to our use.

#### 3.Scope:

The Household savings and expenditure Management System is a system basically used to automate the process and management of all expenditure of an individual.

## Chapter 2

### REQUIREMENTS SPECIFICATION

#### 2.1 Hardware Requirements

Operating System: windows 10

Processor: i5

Installed Memory(RAM): 8 GB

Hard Disk: 50 GB

System Type: 64-bit OS

#### 2.2 Software Requirements

Front End: HTML/CSS/PHP

Back End: Xampp / Oracle

#### 2.3 Tools and Technology used

##### **Tools:**

**Xampp:** XAMPP is a free and open-source cross-platform web server solution stack package Developed by Apache Friends, consisting mainly of the Apache HTTP Server, Maria DB database, and interpreters for scripts written in the PHP and Perl programming languages.

**ORACLE:** Oracle SQL provides an easy, elegant, preformatarchitecture for accessing, defining, and maintaining data. Use SQL with Oracle and PHP, Java, Python, .NET...

##### **Technology:**

**SQL:** SQL is a structured query language used for querying database.

**HTML:** It is used for giving eye catching look to the website. And it also provides an ease to use GUI.

**CSS:** CSS is cascading style sheet which is used to give designer look to HTML using the external file.

**PHP:** PHP (recursive acronym for PHP: Hypertext Pre- processor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML

## Chapter 3

### DESCRIPTION

#### ER DIAGRAM

E-R (Entity-Relationship) Diagram is used to represents the relationship between entities in a table.

ER diagrams represent the logical structure of databases. ER Diagram represent relationship between two database tables.

E-R diagram means Entity Relationship diagram. Entity is a object of system, generally we refer entity as database table, the e-r diagram represent the relationship between each table of database. E-R diagram represent entity with attributes, attributes is a properties of entity. If we assume entity is a database table then all the columns of table are treat as attributes.

Entity : Entities are represented by rectangle. All table of database are treat as entity.

Attributes : Attributes are represented by ellipses. Attributes are properties of entities.

#### Connectivity and Cardinality

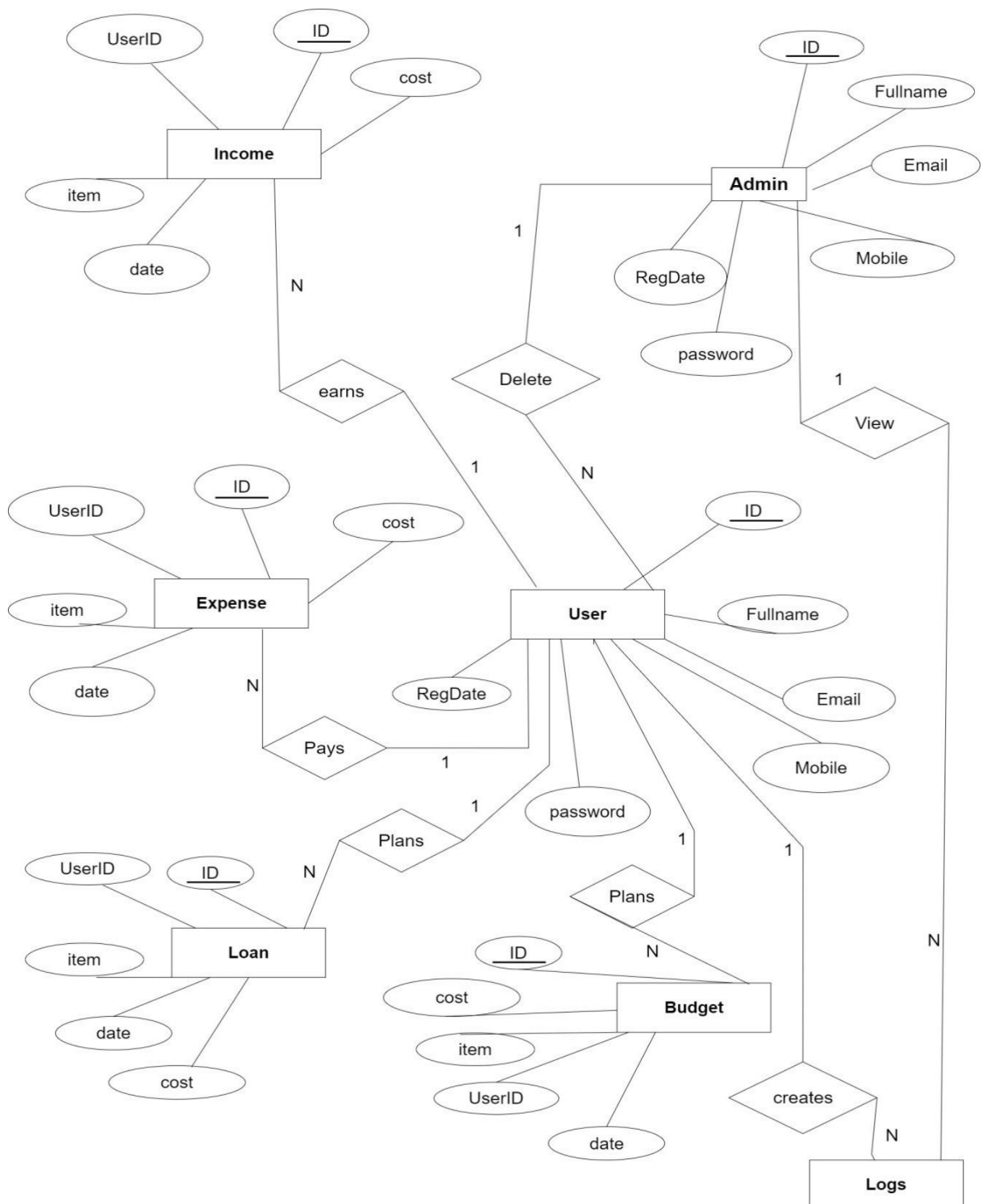
The basic types of connectivity for relations are: one-to-one, one-to-many, and many-to-many. A one-to-one (1:1) relationship is when at most one instance of a entity A is associated with one instance of entity B. For example, "employees in the company are each assigned their own office. For each employee there exists a unique office and for each office there exists a unique employee.

A one-to-many (1:N) relationships is when for one instance of entity A, there are zero, one, or many instances of entity B, but for one instance of entity B, there is only one instance of entity A. An example of a 1:N relationships is

a department has many employees each employee is assigned to one department

A many-to-many (M:N) relationship, sometimes called non-specific, is when for one instance of entity A, there are zero, one, or many instances of entity B and for one instance of entity B there are zero, one, or many instances of entity A. The connectivity of a relationship describes the mapping of associated



**E-R Diagram**

## Schema Diagram

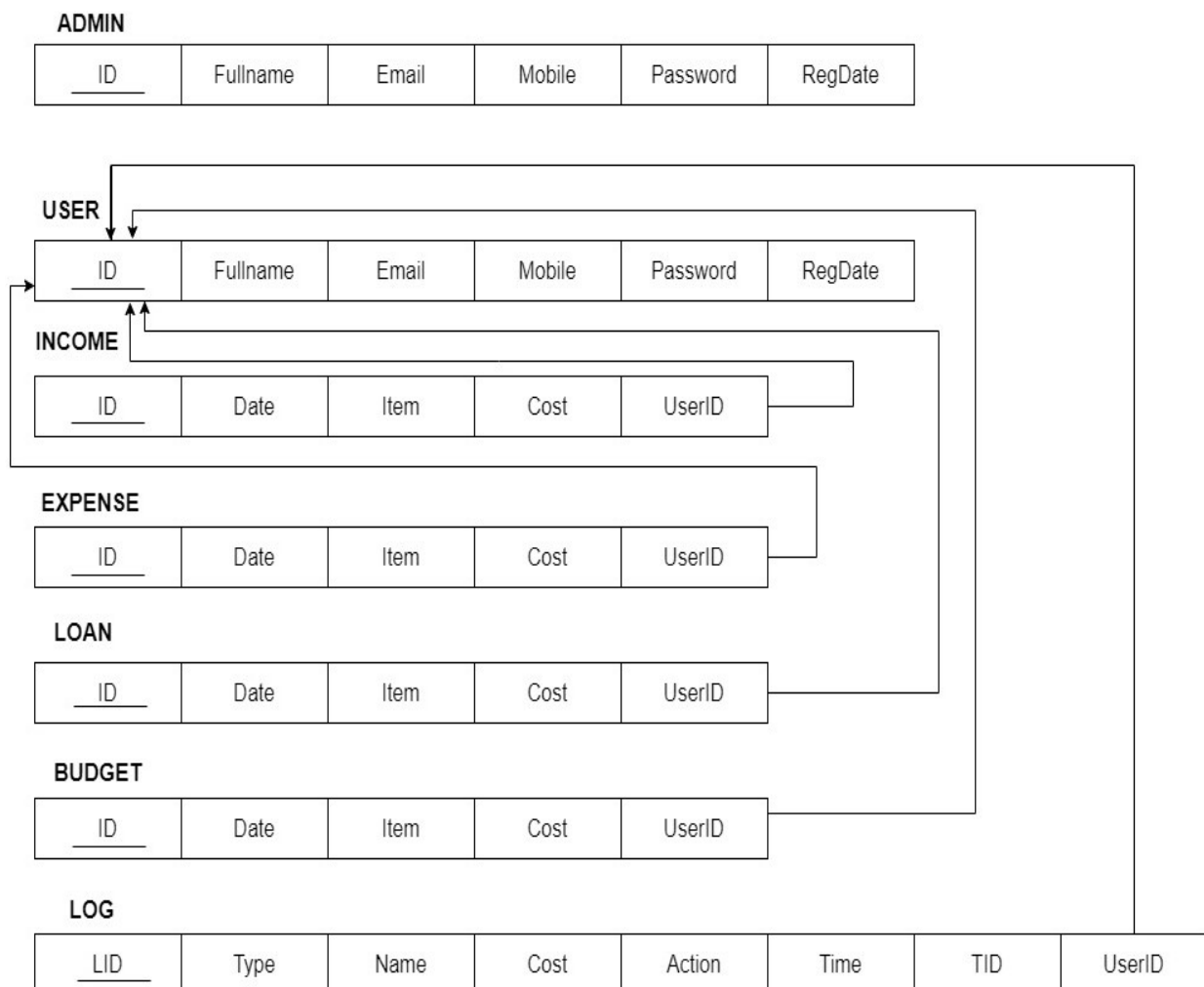


Fig 3.2 Schema Diagram used for Household Savings and Expenditure

## Chapter 4

### CODING

Creating Tables:

```
CREATE TABLE IF NOT EXISTS tbladmin (  
    ID int(10) NOT NULL AUTO_INCREMENT,  
    FullName varchar(50) DEFAULT NULL,  
    Email varchar(20) DEFAULT NULL,  
    MobileNumber bigint(10) DEFAULT NULL,  
    Password varchar(20) DEFAULT NULL,  
    RegDate timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP  
    PRIMARY KEY (ID)  
);
```

Field	Type	NULL	Key	Default	Extra
<b>ID</b>	int(10)	NO	PRIMARY	NULL	AUTO_INCREMENT
<b>FullName</b>	varchar(50)	YES		NULL	
<b>Email</b>	varchar(20)	YES		NULL	
<b>MobileNumber</b>	bigint(10)	YES		NULL	
<b>Password</b>	varchar(20)	YES		NULL	
<b>Regdate</b>	timestamp	NO		CURRENT_TIMESTAMP	

```
CREATE TABLE IF NOT EXISTS tbluser (  
    ID int(10) NOT NULL AUTO_INCREMENT,  
    FullName varchar(15) DEFAULT NULL,  
    Email varchar(20) DEFAULT NULL,  
    MobileNumber bigint(10) DEFAULT NULL,  
    Password varchar(20) DEFAULT NULL,  
    RegDate timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,  
    PRIMARY KEY (ID)  
);
```

Field	Type	NULL	Key	Default	Extra
<b>ID</b>	int(10)	NO	PRIMARY	NULL	AUTO_INCREMENT
<b>FullName</b>	varchar(50)	YES		NULL	
<b>Email</b>	varchar(20)	YES		NULL	
<b>MobileNumber</b>	bigint(10)	YES		NULL	
<b>Password</b>	varchar(20)	YES		NULL	
<b>Regdate</b>	timestamp	NO		CURRENT_TIMESTAMP	

```

CREATE TABLE IF NOT EXISTS tblincome (
  ID int(10) NOT NULL AUTO_INCREMENT,
  UserId int(10) NOT NULL,
  IncomeDate date DEFAULT NULL,
  IncomeItem varchar(20) DEFAULT NULL,
  IncomeCost varchar(20) DEFAULT NULL,
  NoteDate timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
  PRIMARY KEY (ID)
);

```

Field	Type	NULL	Key	Default	Extra
<b>ID</b>	int(10)	NO	PRIMARY	NULL	AUTO_INCREMENT
<b>UserId</b>	int(10)	NO		NULL	
<b>IncomeDate</b>	date	YES		NULL	
<b>IncomeItem</b>	varchar(20)	YES		NULL	
<b>Incomecost</b>	varchar(20)	YES		NULL	
<b>NoteDate</b>	timestamp	NO		CURRENT_TIMESTAMP	

```

CREATE TABLE IF NOT EXISTS tblloan (
  ID int(10) NOT NULL AUTO_INCREMENT,
  UserId int(10) NOT NULL,
  LoanDate date DEFAULT NULL,
  LoanItem varchar(20) DEFAULT NULL,
  LoanCost varchar(20) DEFAULT NULL,
  NoteDate timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
  PRIMARY KEY (ID));

```

Field	Type	NULL	Key	Default	Extra
<b>ID</b>	int(10)	NO	PRIMARY	NULL	AUTO_INCREMENT
<b>UserId</b>	int(10)	NO		NULL	
<b>LoneDate</b>	date	YES		NULL	
<b>LoneItem</b>	varchar(20)	YES		NULL	
<b>Lonecost</b>	varchar(20)	YES		NULL	
<b>NoteDate</b>	timestamp	NO		CURRENT_TIMESTAMP	

```

CREATE TABLE IF NOT EXISTS tblexpense (
  ID int(10) NOT NULL AUTO_INCREMENT,
  UserId int(10) NOT NULL,
  ExpenseDate date DEFAULT NULL,
  ExpenseItem varchar(20) DEFAULT NULL,
  ExpenseCost varchar(20) DEFAULT NULL,
  NoteDate timestamp NULL DEFAULT CURRENT_TIMESTAMP,
  PRIMARY KEY (ID)
);

```

Field	Type	NULL	Key	Default	Extra
<b>ID</b>	int(10)	NO	PRIMARY	NULL	AUTO_INCREMENT
<b>UserId</b>	int(10)	NO		NULL	
<b>ExpenseDate</b>	date	YES		NULL	
<b>ExpenseItem</b>	varchar(20)	YES		NULL	
<b>ExpenseCost</b>	varchar(20)	YES		NULL	
<b>NoteDate</b>	timestamp	NO		CURRENT_TIMESTAMP	

```

CREATE TABLE IF NOT EXISTS tblbudget (
  ID int(10) NOT NULL AUTO_INCREMENT,
  UserId int(10) NOT NULL,
  BudgetDate date DEFAULT NULL,
  BudgetItem varchar(20) CHARACTER SET latin1 DEFAULT NULL,
  BudgetCost varchar(20) CHARACTER SET latin1 DEFAULT NULL,
  NoteDate timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
  PRIMARY KEY (ID)
);

```

Field	Type	NULL	Key	Default	Extra
<b>ID</b>	int(10)	NO	PRIMARY	NULL	AUTO_INCREMENT
<b>UserId</b>	int(10)	NO		NULL	
<b>BudgetDate</b>	date	YES		NULL	
<b>BudgetItem</b>	varchar(20)	YES		NULL	
<b>BudgetCost</b>	varchar(20)	YES		NULL	
<b>NoteDate</b>	timestamp	NO		CURRENT_TIMESTAMP	

### Data Insertion:

```

INSERT INTO tbladmin (ID , FullName, Email, MobileNumber, Password, RegDate) VALUES
(16, 'demoadmin', 'demoadmin@gmail.com', 1234567890, 'demoadmin', '2023-02-01 14:12:56');

```

ID	FullName	Email	MobileNumber	Password	RegDate
1	demoadmin	demoadmin@gmail.com	1234567890	demoadmin	2023-02-04 14:12:56

```

INSERT INTO tbluser (ID, FullName, Email, MobileNumber, Password , RegDate) VALUES
(14, 'demouser', 'demouser@gmail.com', 8957611111, 'demouser', '2023-01-02 10:04:49');
(16, 'sathishgk', 'sathishgk@12gmail.com', 7483880371, 'sathish@12', '2021-01-02 10:04:49');
(17, 'shivaprasadh', 'shiva@11gmail.com', 7483880372, 'shiva@12', '2021-01-02 10:04:49');

```

ID	FullName	Email	MobileNumber	Password	RegDate	
1	demouser	demouser@gmail.com	8957611111	demouser	2023-01-02 10:04:49	
2	sathishgk	sathishgk@12gmail.com	7483880371	sathish@12	2023-01-02 10:04:49	
3	shivaprasadh	shiva@11gmail.com	7483880372	shiva@12	2023-01-02 10:04:49	

INSERT INTO tblincome ( ID , UserId, IncomeDate , IncomeItem , IncomeCost , NoteDate ) VALUES  
 (7, 16, '2023-01-02', 'salary', '50000', '2023-01-02 10:05:48'),  
 (8, 16, '2023-01-02', 'apartment rent', '7000', '2023-01-02 10:06:56'),  
 (9, 16, '2023-01-02', ' bank balance', '500000', '2023-01-02 10:12:03')  
 (10,16,'2023-01-02','son-scholarship','12000','2023-01-02 12:01:02')  
 (11,16,'2023-01-02','crop income','40000','2023-01-02 01:00:00');

ID	UserId	IncomeDate	IncomeItem	Income Cost	NoteDate
7	16	2023-01-02	Salary	50000	2023-01-02 10:05:48
8	16	2023-01-02	apartment rent	7000	2023-01-02 10:06:56
9	16	2023-01-02	bank-balance	500000	2023-01-02 10:12:03
10	16	2023-01-02	son-scholarship	12000	2023-01-02 12:01:02
11	16	2023-01-02	Crop income	40000	2023-01-02 01:00:00

INSERT INTO tblloan ( ID, UserId , LoanDate , LoanItem , LoanCost , NoteDate ) VALUES

(9, 16, '2023-01-01', 'bike loan', '5000', '2023-01-01 08:40:02'),  
 (10, 16, '2023-02-02', 'car loan', '10000', '2023-02-02 10:12:29'),  
 (11, 16, '2023-03-02', 'land loan', '40000', '2023-03-02 12:02:29')  
 (12,16,'2023-04-01','housing loan','50000','2023-04-01 04:00:00');

ID	UserId	LoanDate	LoanItem	LoanCost	NoteDate
9	16	2023-01-01	bike loan	50000	2023-01-01 08:40:02
10	16	2023-02-02	car loan	10000	2023-02-02 10:12:29
11	16	2023-03-02	land loan	40000	2023-03-02 12:02:29
12	16	2023-04-02	housing loan	50000	2023-04-01 04:00:00

INSERT INTO tblexpense (ID, UserId, ExpenseDate , ExpenseItem , ExpenseCost , NoteDate) VALUES

(7, 16, '2023-01-01', 'electricity bill', '1000', '2023-01-01 10:07:33'),  
 (8, 16, '2023-02-02', 'DTH', '350', '2023-02-02 10:08:05'),  
 (9, 16, '2023-11-01', 'ration/supplies', '5000', '2023-11-01 10:09:24'),  
 (10, 16, '2023-10-08', 'emergency hospital bill', '15000', '2023-10-08 10:11:18');



ID	UserId	ExpenseDate	ExpenseItem	ExpenseCost	NoteDate
7	16	2023-01-01	electricity bill	1000	2023-01-01 10:07:33
8	16	2023-02-02	DTH	350	2023-02-02 10:08:05
9	16	2023-11-01	ration/supplies	5000	2023-11-01 10:09:24
10	16	2023-10-08	emergency hospital bill	15000	2023-10-08 10:11:18
















INSERT INTO tblbudget ( ID , UserId , BudgetDate , BudgetItem , BudgetCost , NoteDate )VALUES  
 (8, 16, '2023-01-01', 'bike', '60000', '2023-01-01 10:00:00'),  
 (9,16, '2023-02-02', 'daily items', '6000', '2023-02-02 06:00:40'),  
 (10, 16, '2023-10-08', 'land', '80000', '2023-10-08 07:09:00');

ID	UserId	BudgetDate	BudgetItem	BudgetCost	RegDate
8	16	2023-01-01	bike	60000	2023-01-01 10:00:00
9	16	2023-02-02	daily items	6000	2023-02-02 06:00:40
10	16	2023-10-08	land	80000	2023-10-08 07:09:00

**QUERIES:**

1. Retrieve all expenditure transactions for a particular month:

soln: `select * from tblincome  
where month(incomedate)=1 and year(incomedate)=2023;`

<div><div><div>←</div><div>T</div><div>→</div></div></div>					ID	UserId	IncomeDate	Incomeltem	IncomeCost	NoteDate
<input type="checkbox"/>	 Edit	 Copy	 Delete	18	16	2023-01-02	salary	40000	2023-03-17 09:50:28	
<input type="checkbox"/>	 Edit	 Copy	 Delete	19	16	2023-01-02	apartment rent	7000	2023-03-17 10:46:06	
<input type="checkbox"/>	 Edit	 Copy	 Delete	20	16	2023-01-02	bank balance	500000	2023-03-17 10:46:29	
<input type="checkbox"/>	 Edit	 Copy	 Delete	21	16	2023-01-02	son scholarship	12000	2023-03-17 10:46:47	
<input type="checkbox"/>	 Edit	 Copy	 Delete	22	16	2023-01-02	crop income	40000	2023-03-17 10:47:15	

2. Retrieve the number of expenditure transactions per month for the past year:

`SELECT MONTH(Expensedate) AS month, COUNT(*) AS num_transactions  
FROM tblexpense  
WHERE YEAR(ExpenseDate) = YEAR(CURRENT_DATE) - 1  
GROUP BY MONTH(ExpenseDate);`

month	num_transactions
11	4

3. Get the user with the highest total expense cost for each month, as well as the total cost and number of items for that user in that month

`SELECT MONTH(ExpenseDate) AS ExpenseMonth, UserId, SUM(ExpenseCost) AS TotalExpenseCost,  
COUNT(*) AS TotalExpenseItems`

`FROM tblexpense AS t1`

`WHERE (UserId, ExpenseDate, ExpenseCost) IN (`

`SELECT UserId, ExpenseDate, ExpenseCost`

`FROM tblexpense AS t2`

WHERE MONTH(t2.ExpenseDate) = MONTH(t1.ExpenseDate)

ORDER BY ExpenseCost DES

)

GROUP BY ExpenseMonth;

ExpenseMonth	UserId	TotalExpenseCost	TotalExpenseItems
1	15	1500	2
2	16	350	1
10	16	15000	1
11	14	26350	5

4.Retrieve all loans taken on or after January 1, 2022, by users who have taken a loan in the last 30 days

SELECT \* FROM tblloan t1 WHERE EXISTS (

SELECT 1 FROM tblloan t2

WHERE t2.UserId = t1.UserId AND t2.LoanDate >= DATE\_SUB(CURDATE(), INTERVAL 30 DAY)

) AND LoanDate >= '2022-01-01';

	ID	UserId	LoanDate	LoanItem	LoanCost	NoteDate
<input type="checkbox"/> Edit Copy Delete	9	16	2023-01-01	bike loan	50000	2023-03-17 09:57:55
<input type="checkbox"/> Edit Copy Delete	10	16	2023-02-02	car loan	10000	2023-03-17 09:58:15
<input type="checkbox"/> Edit Copy Delete	11	16	2023-03-02	land loan	40000	2023-03-17 09:58:41
<input type="checkbox"/> Edit Copy Delete	12	16	2023-04-02	housing loan	50000	2023-03-17 09:59:02










5. Find the most recent loan for each user

```
SELECT *
FROM tblloan t1
WHERE NoteDate = (
SELECT MAX(NoteDate)
FROM tblloan t2
WHERE t1.UserId = t2.UserId
);
```

<div><div><div>←</div><div>T</div><div>→</div></div></div>				ID	UserId	LoanDate	LoanItem	LoanCost	NoteDate
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6. Find total budget of each user

```
SELECT UserId, SUM(BudgetCost) AS TotalCost
FROM tblbudget
GROUP BY UserId;
```

<div><div><div><div></div><div></div></div><div></div></div></div>						UserId	TotalCost	
<input type="checkbox"/>		Edit		Copy		Delete	14	6900
<input type="checkbox"/>		Edit		Copy		Delete	15	1500
<input type="checkbox"/>		Edit		Copy		Delete	16	146000

7. To display the income items with a total income greater than the average income for all items

```
SELECT `IncomeItem`, SUM(`IncomeCost`) AS `TotalIncome`
FROM `tblincome`
GROUP BY `IncomeItem`
HAVING `TotalIncome` > (SELECT AVG(`TotalIncome`) FROM (SELECT SUM(`IncomeCost`) AS
`TotalIncome` FROM `tblincome` GROUP BY `IncomeItem`) AS `AvgIncome`)
ORDER BY `TotalIncome` DESC;
```

Extra options

	IncomeItem	TotalIncome
<input type="checkbox"/> Edit Copy Delete	bank balance	500000

8. To display the number of users registered in each month of the year 2022

```
SELECT COUNT(`ID`) AS `TotalUsers`, MONTH(`RegDate`) AS `Month`
FROM `tbluser`
WHERE YEAR(`RegDate`) = 2022
GROUP BY `Month`
ORDER BY `Month` ASC;
```

SELECT COUNT(`ID`) AS `TotalUsers`, MONTH(`RegDate`) AS `Month` FROM `tbluser` WHERE YEAR(`RegDate`) = 2022 GROUP BY `Month` ORDER BY `Month` ASC;

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

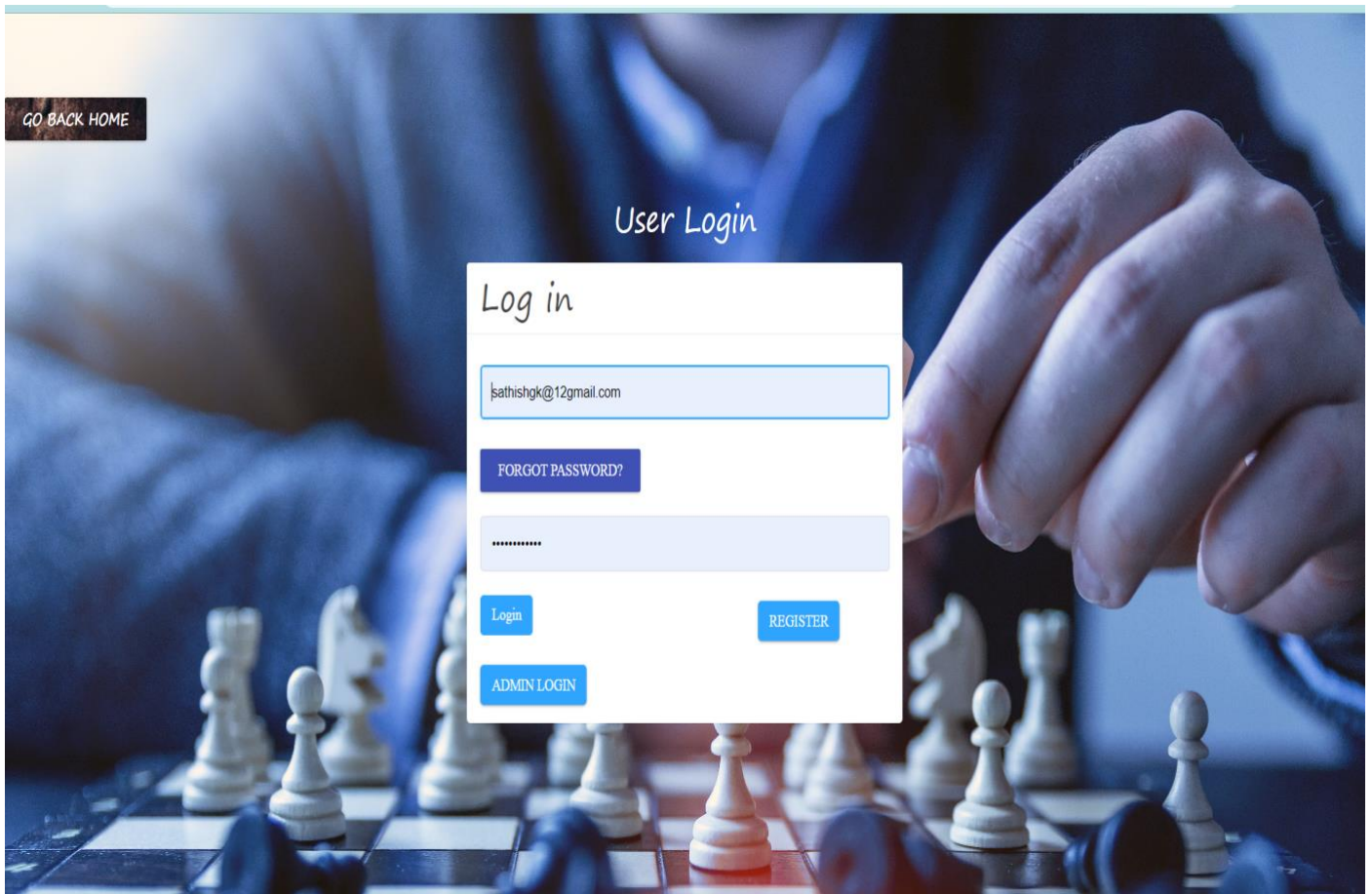
Extra options

TotalUsers	Month
1	11

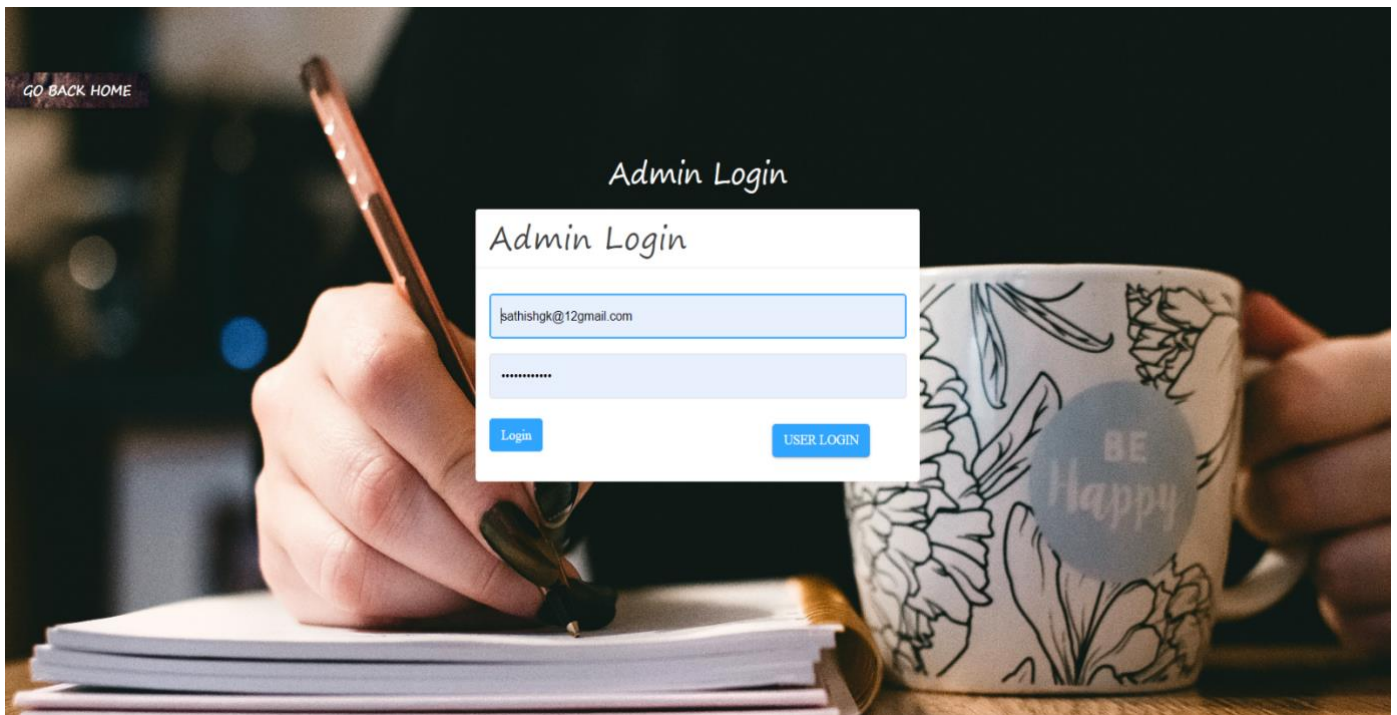
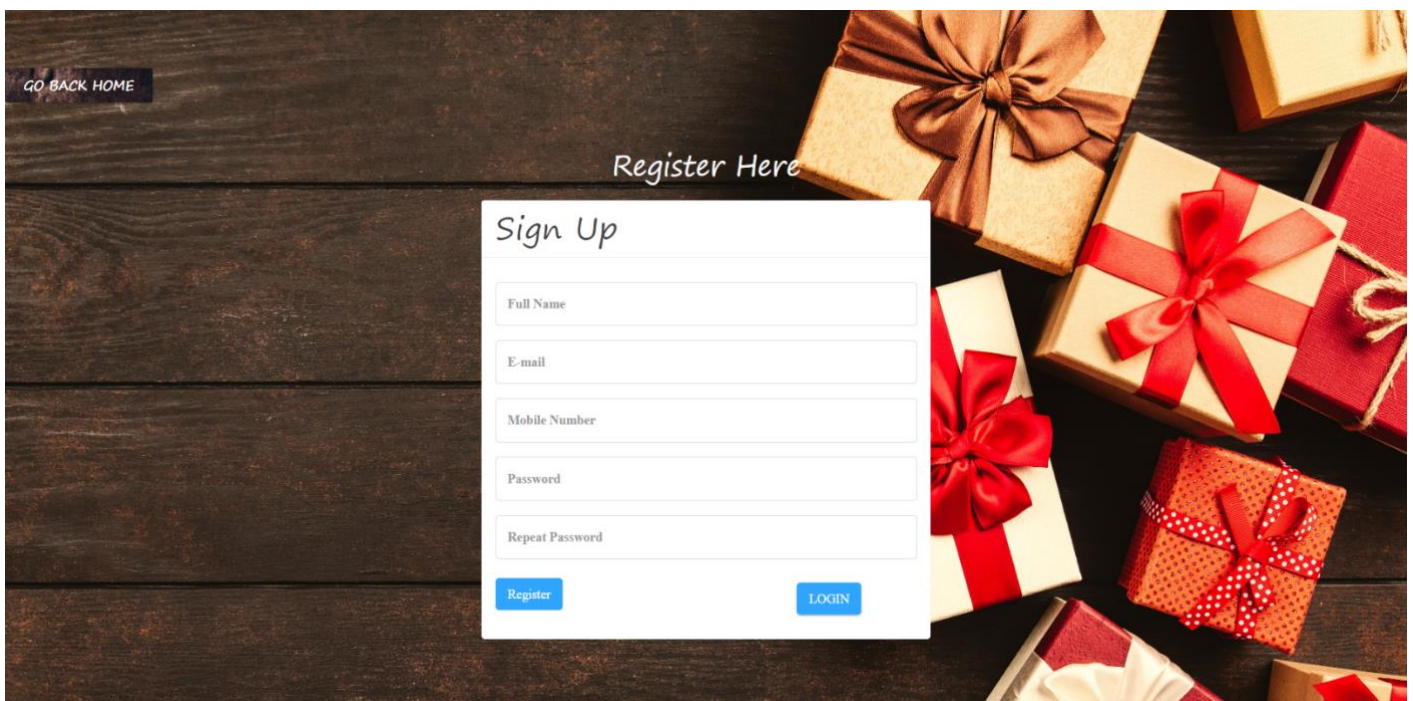
## Chapter 5

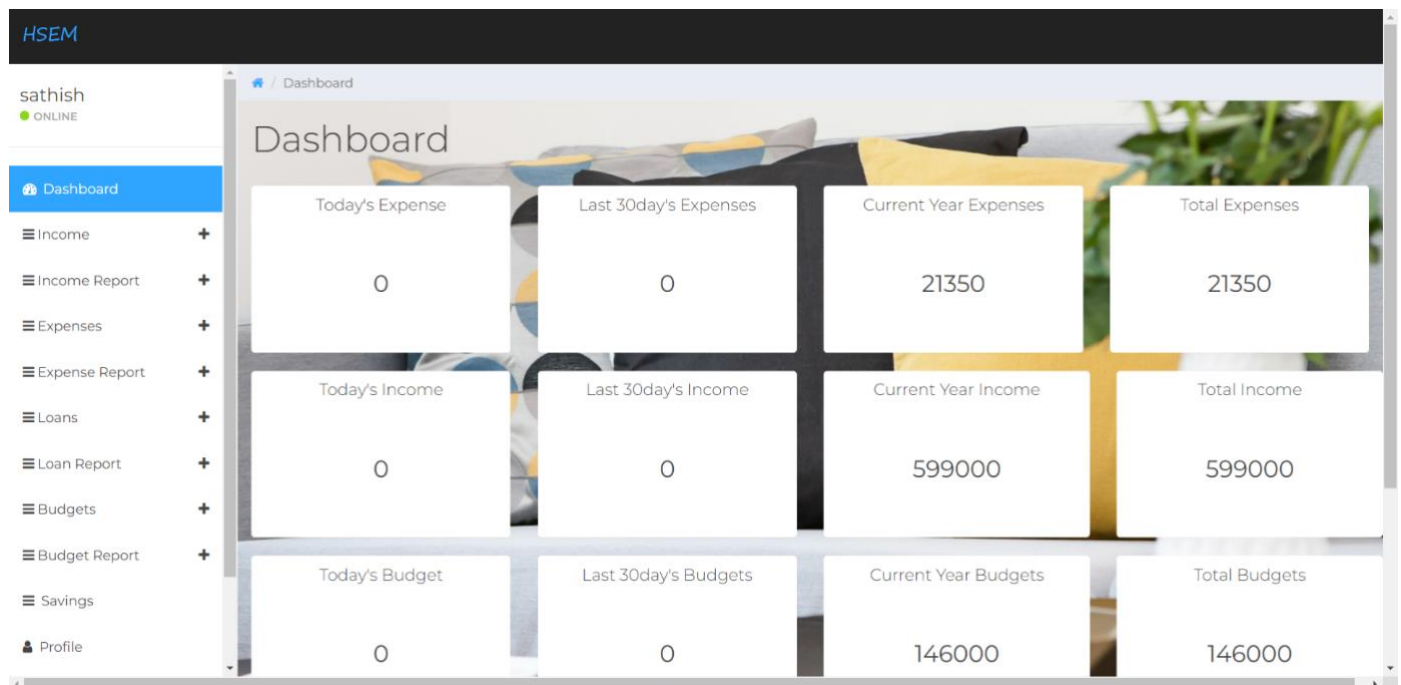
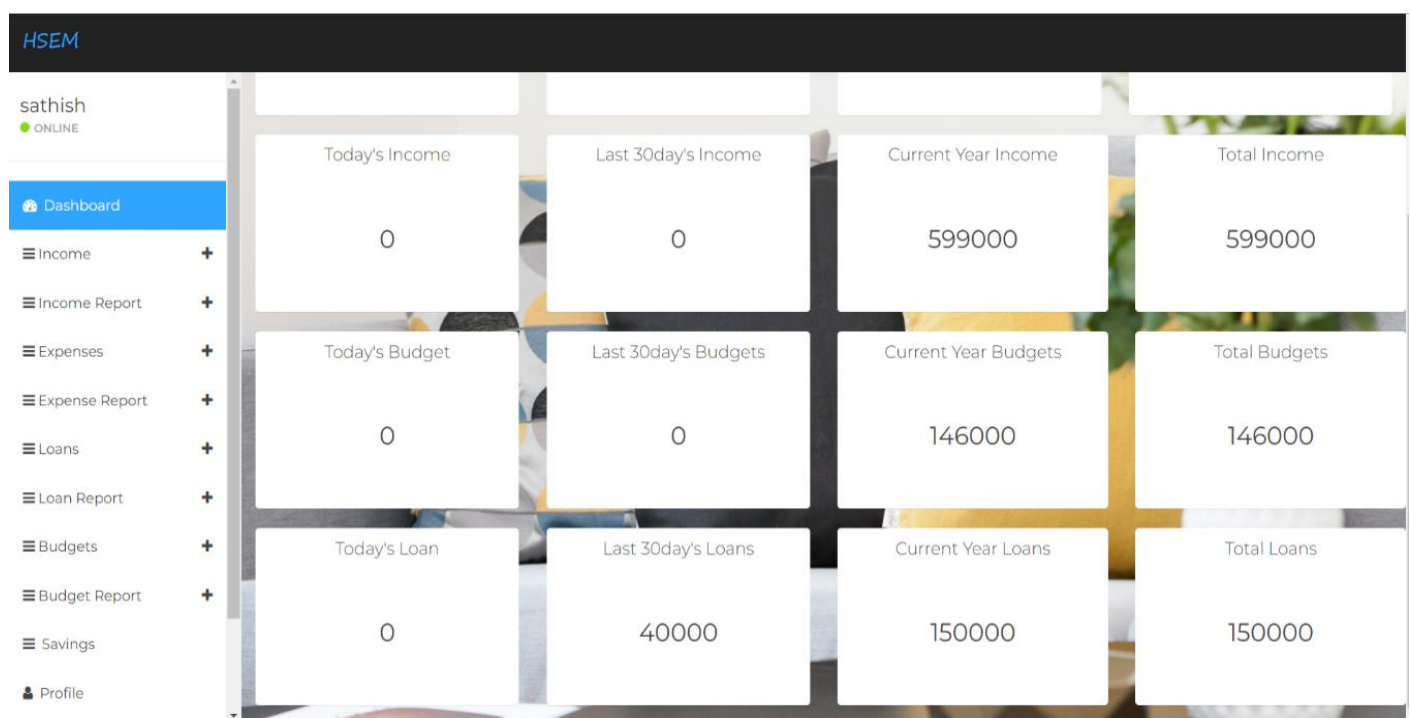
## SNAPSHOTS

## User login:





**ADMIN LOGIN:****New Register login:**

**DASHBOARD(1):****DASHBOARD(2):**



**ADDING INCOME:**

**HSEM**

sathish  
● ONLINE

Dashboard

Income

Income Report

Expenses

Expense Report

Loans

Loan Report

Budgets

Budget Report

Savings

Profile

Income

Date of Income

dd-mm-yyyy

Mode Of Income

Income

Add

**INCOME DATA:**

**HSEM**

sathish  
● ONLINE

Dashboard

Income

Income Report

Expenses

Expense Report

Loans

Loan Report

Budgets

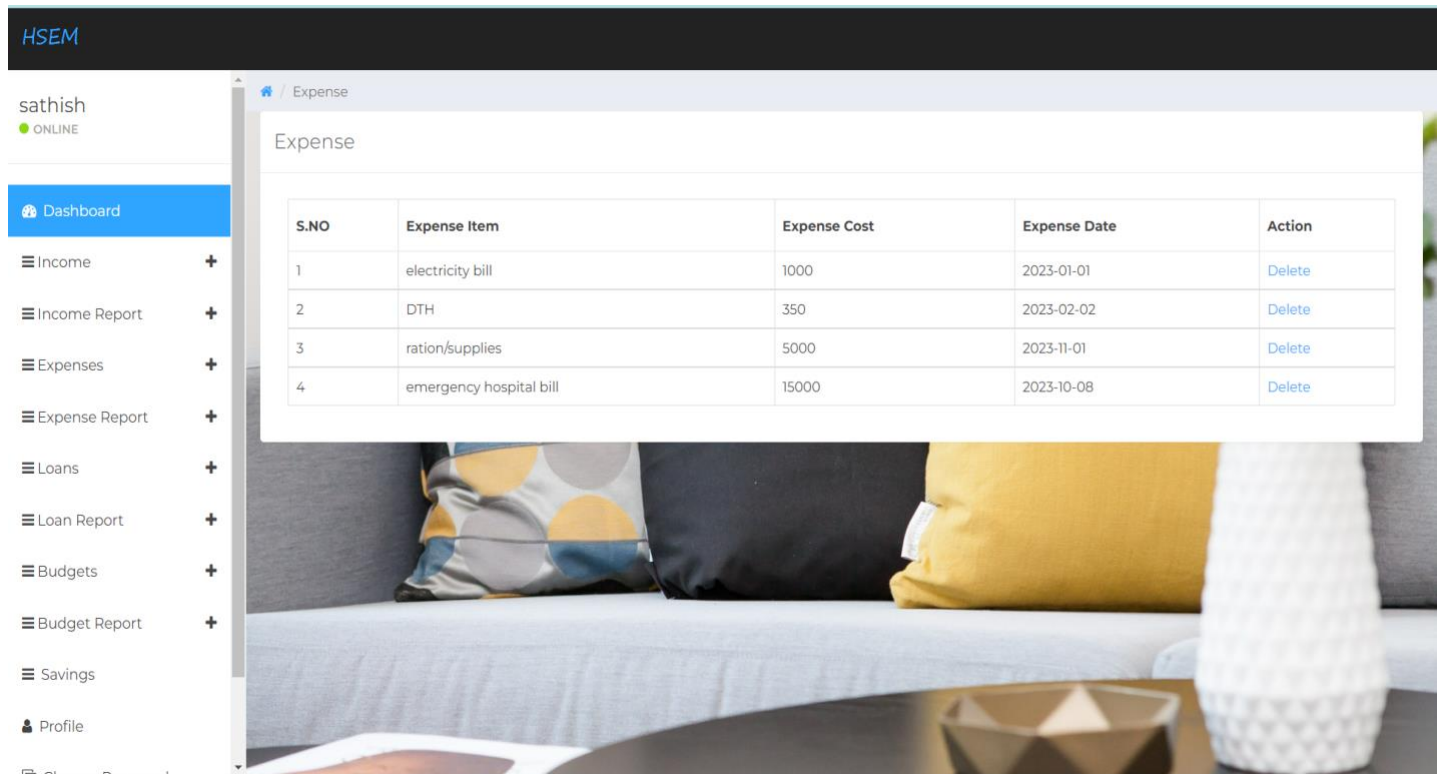
Budget Report

Savings

Profile

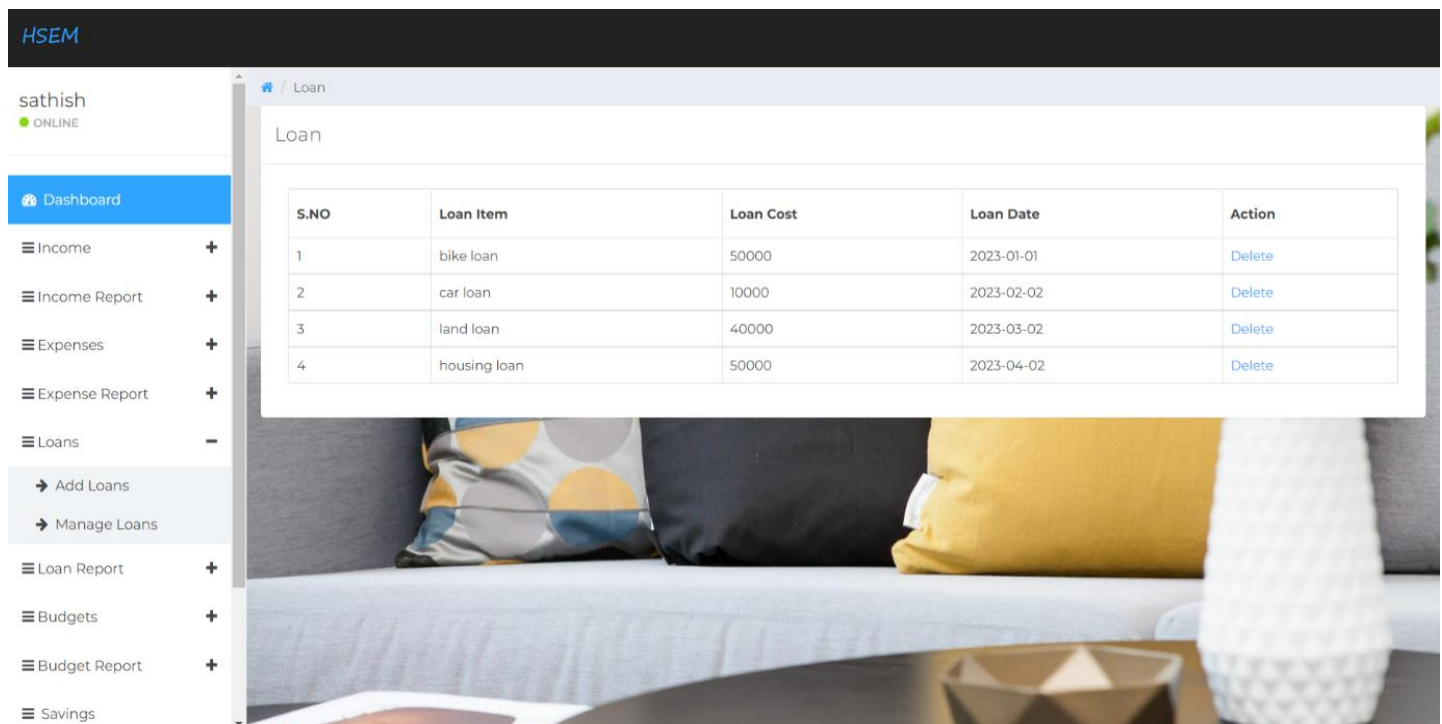
Income

S.NO	Income Item	Income Cost	Income Date	Action
1	salary	40000	2023-01-02	<a href="#">Delete</a>
2	apartment rent	7000	2023-01-02	<a href="#">Delete</a>
3	bank balance	500000	2023-01-02	<a href="#">Delete</a>
4	son scholarship	12000	2023-01-02	<a href="#">Delete</a>
5	crop income	40000	2023-01-02	<a href="#">Delete</a>

**EXPENSE DATA:**

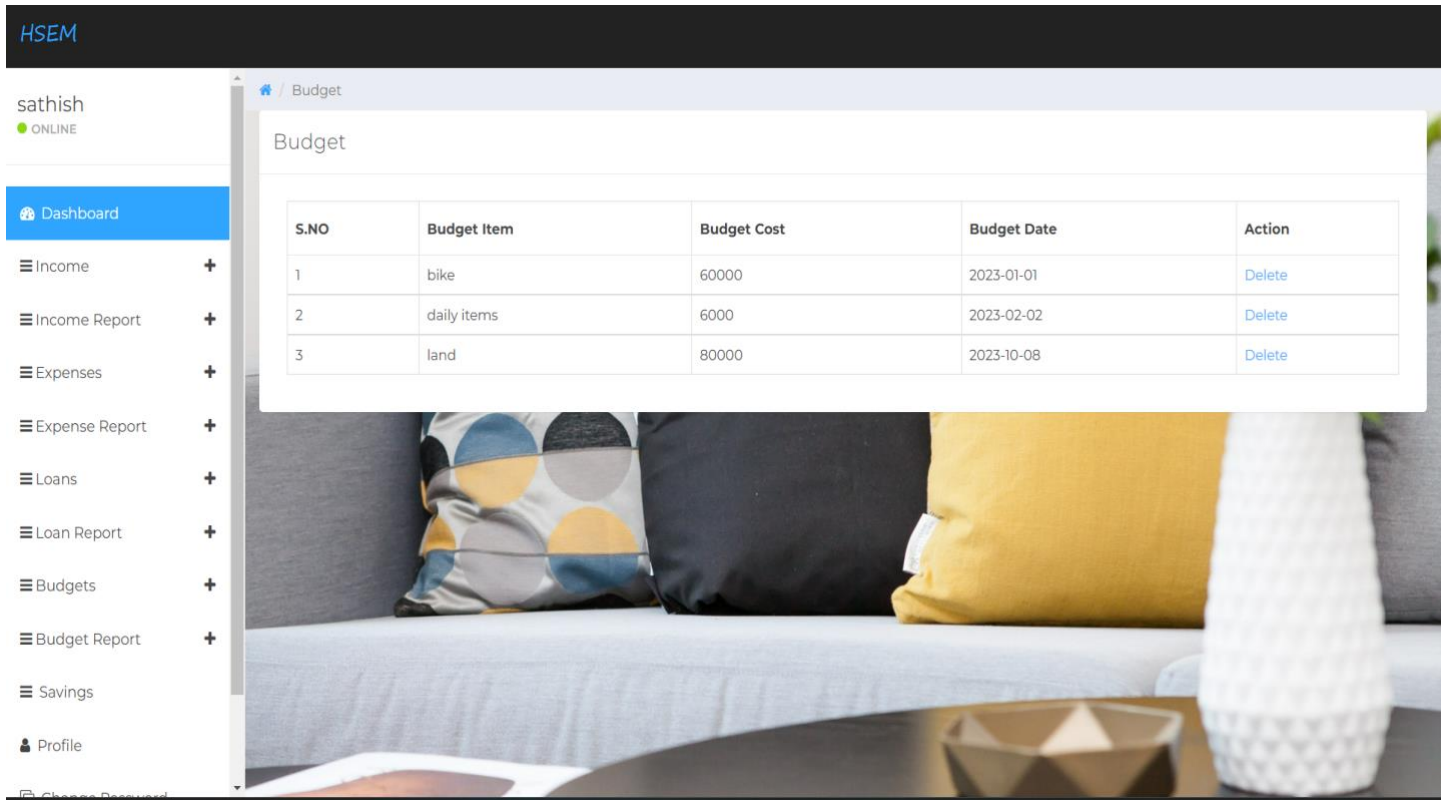
The screenshot displays the HSEM web application interface. On the left is a sidebar menu with the user's name 'sathish' and status 'ONLINE'. The menu includes options like Dashboard, Income, Income Report, Expenses, Expense Report, Loans, Loan Report, Budgets, Budget Report, Savings, and Profile. The main content area is titled 'Expense' and contains a table with the following data:

S.NO	Expense Item	Expense Cost	Expense Date	Action
1	electricity bill	1000	2023-01-01	<a href="#">Delete</a>
2	DTH	350	2023-02-02	<a href="#">Delete</a>
3	ration/supplies	5000	2023-11-01	<a href="#">Delete</a>
4	emergency hospital bill	15000	2023-10-08	<a href="#">Delete</a>

**LOAN DATA:**

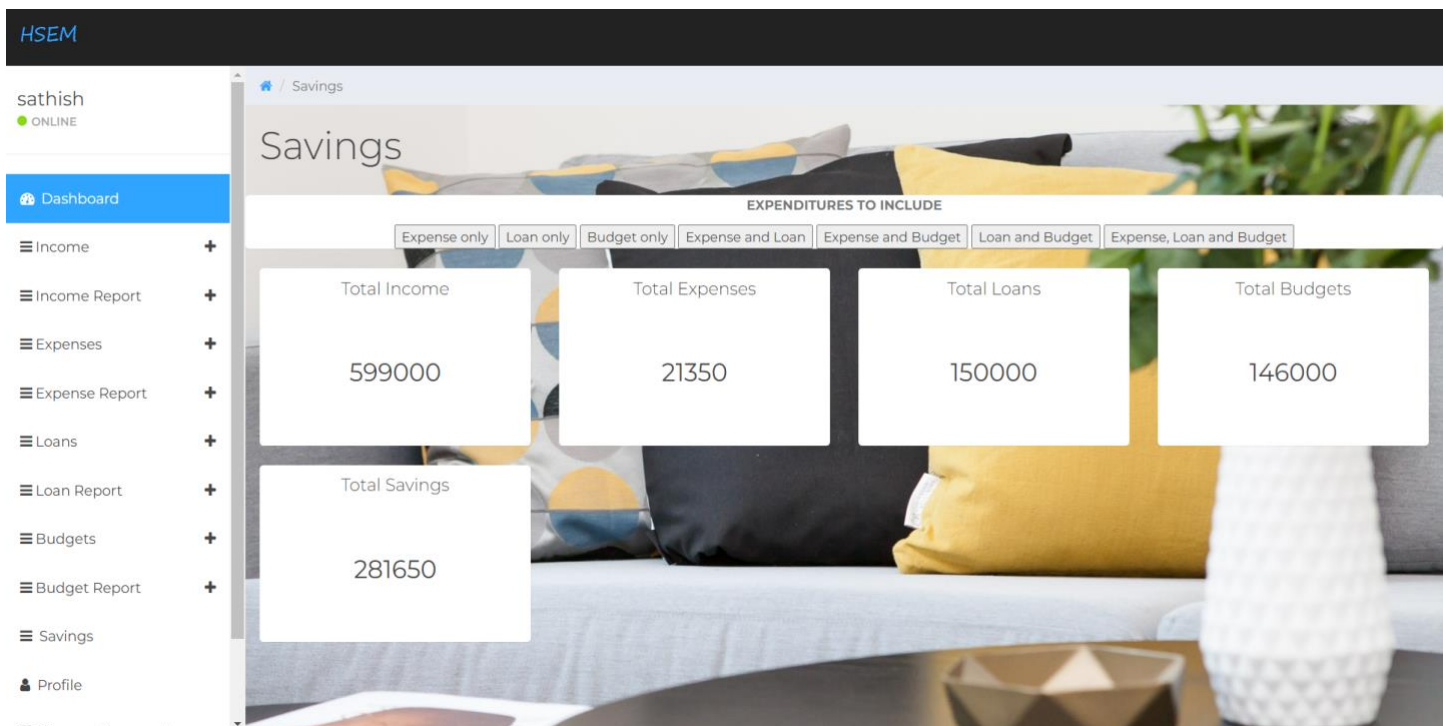
The screenshot displays the HSEM web application interface for the Loans section. The sidebar menu is similar to the previous one, but the 'Loans' option is expanded, showing 'Add Loans' and 'Manage Loans'. The main content area is titled 'Loan' and contains a table with the following data:

S.NO	Loan Item	Loan Cost	Loan Date	Action
1	bike loan	50000	2023-01-01	<a href="#">Delete</a>
2	car loan	10000	2023-02-02	<a href="#">Delete</a>
3	land loan	40000	2023-03-02	<a href="#">Delete</a>
4	housing loan	50000	2023-04-02	<a href="#">Delete</a>

**BUDJET DATA:**

The screenshot shows the HSEM application interface. On the left is a sidebar with the user's name 'sathish' and status 'ONLINE', and a menu with options like Dashboard, Income, Income Report, Expenses, Expense Report, Loans, Loan Report, Budgets, Budget Report, Savings, and Profile. The main content area is titled 'Budget' and displays a table with the following data:

S.NO	Budget Item	Budget Cost	Budget Date	Action
1	bike	60000	2023-01-01	<a href="#">Delete</a>
2	daily items	6000	2023-02-02	<a href="#">Delete</a>
3	land	80000	2023-10-08	<a href="#">Delete</a>

**TOTAL SAVINGS:**

The screenshot shows the HSEM application interface for the 'Savings' section. The sidebar is identical to the previous screenshot. The main content area is titled 'Savings' and features a section 'EXPENDITURES TO INCLUDE' with tabs for 'Expense only', 'Loan only', 'Budget only', 'Expense and Loan', 'Expense and Budget', 'Loan and Budget', and 'Expense, Loan and Budget'. Below this, there are five summary cards:

Category	Value
Total Income	599000
Total Expenses	21350
Total Loans	150000
Total Budgets	146000
Total Savings	281650

## CONCLUSION

What we have here is easy to use, highly beneficial website. The design of the website is done by taking in to the consideration of all the user's needs, boxing them and presenting it in the best way possible. Using the website saves the much needed time and helps streamline the entire process.

The website has been completed successfully and tested with suitable test cases. It is user friendly and contains suitable options for all users. This project is part of the spearhead the pierces the veil of redundancy and creates a future where everything is on the web and easily accessible.

Household Savings and Expenditure Mangement System, is a project aimed to reduce paperwork and to bring relative ease to manage large data in terms of expenses and income.

- This is also used to keep track of old as well as new and update expenses.
- It allows one to keep a list of all types of expenses and income information based on the user, expenditure, unique id, description of the expenditure and this software can also be used to
- See the feedbacks of the users and act according about the users.
- It also has an about page which discuss about the users.

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