

***+ANUDIP FOUNDATION***

A Project Report on

**EXPENSE MANAGER SYSTEM**

By

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# EXPENSE MANAGER SYSTEM

## Introduction

An **Expense Manager System** is a software application designed to help users track and manage their finances, including income, expenses, loans, and accounts. It allows users to record transactions, categorize expenses, monitor balances, and receive notifications for upcoming payments or financial events. Typically built using technologies like **Java**, **Hibernate**, and **MySQL**, this system helps users gain insights into their spending habits and make better financial decisions.

## Entities:

- ❖ User
- ❖ Income
- ❖ Account
- ❖ Expense
- ❖ Notification
- ❖ Loan
- ❖ EMI

## ATTRIBUTES OF ENTITIES

### 1. User

- user\_id (primary key)
- Name
- Phone\_no
- Email\_id

### 2. Income

- Income\_id (primary key)
- Amount
- Description

### **3. Account**

- Account\_no (primary key)
- Account\_type
- Balance
- Laon\_no (foreign key)
- EMI\_no(foreign key)

### **4. Expense**

- Expense\_id (primary key)
- location
- category
- Date
- Amount(foreign key)

### **5. Notification**

- Notification\_id(primary key)
- Notification\_type

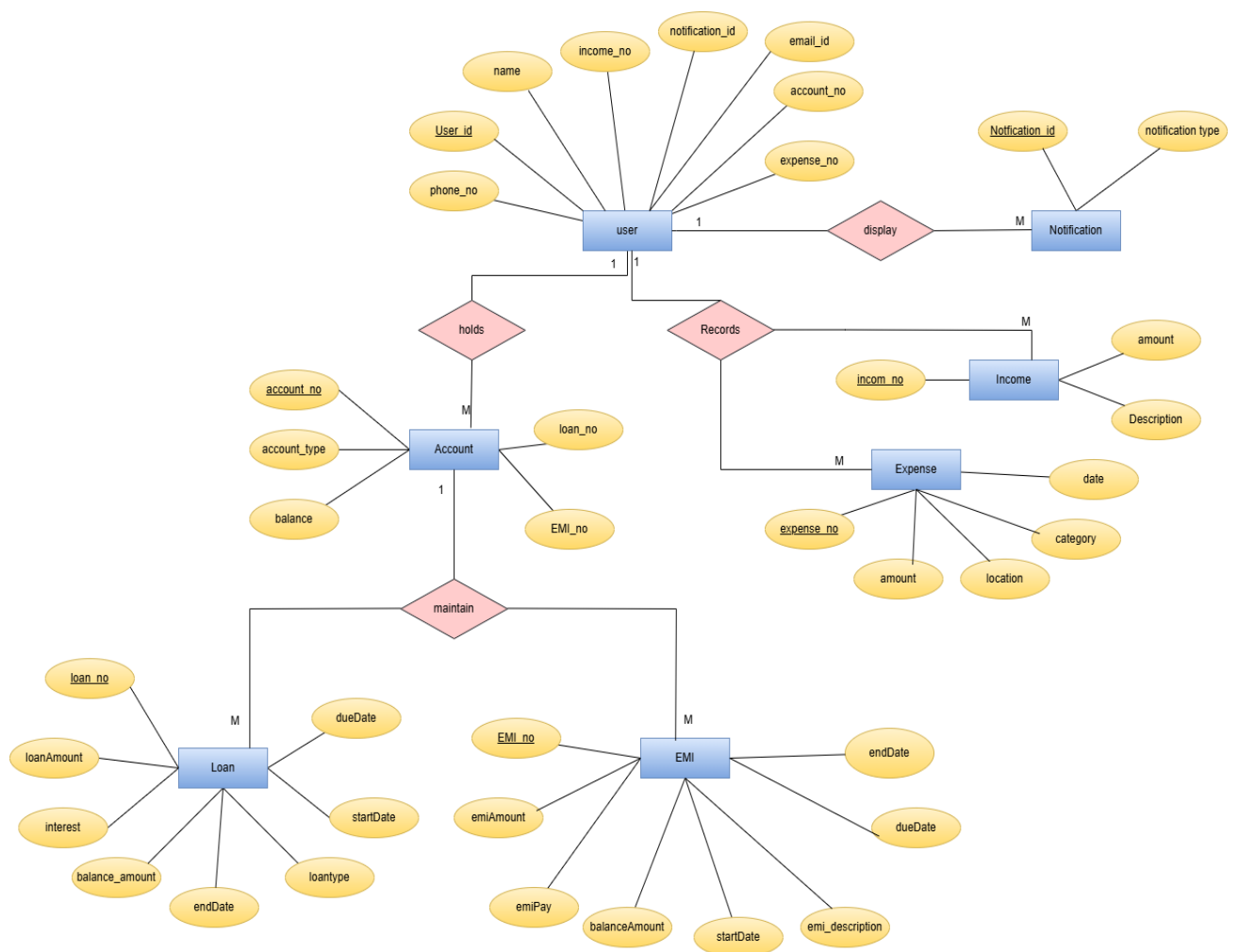
### **6. Loan**

- Loan\_no (primary key)
- loanAmount
- balance\_amount
- Interest
- startDate
- endDate
- dueDate
- Loantype

### **7. EMI**

- EMI\_no(primary key)
- emiAmount
- emiPay
- emiBalance
- startDate
- endDate
- dueDate

# ENTITY RELATIONSHIP DAIGRAM: EXPENSE MANAGER SYSTEM



## **CONCLUSION:**

In conclusion, an Expense Manager System is a valuable tool for individuals and businesses to effectively manage their finances. By providing features such as income and expense tracking, loan management, and notifications, it helps users stay organized and make informed financial decisions. With technologies like Java, Hibernate, and MySQL, this system ensures efficient data handling and smooth user interactions. Ultimately, it empowers users to maintain control over their finances, leading to better financial planning and stability.

## **DATABASE CREATION QUERY:**

**CREATE DATABASE Expense\_System;**

**Query OK, 1 row affected (0.07 sec)**

```
mysql> CREATE TABLE Account(accountNo integer,  
-> accountType varchar(30),  
-> balance varchar(30),  
-> emiNo varchar(30),  
-> loanNo varchar(30));
```

**Query OK, 0 rows affected (0.17 sec)**

```
mysql> CREATE TABLE Emi(emiNo integer,  
-> emiAmount varchar(30),  
-> dueDate varchar(30),  
-> startDate varchar(30),  
-> endDate varchar(30),  
-> loanNo varchar(30),  
-> emiPay varchar(30),  
-> balanceAmount varchar(30));
```

**Query OK, 0 rows affected (0.04 sec)**

```
mysql> CREATE TABLE Expense(expenseNo integer,  
-> amount varchar(30),  
-> category varchar(30),  
-> date varchar(30),  
-> location varchar(30),  
-> description varchar(30),  
-> accountNo varchar(30));
```

**Query OK, 0 rows affected (0.04 sec)**

```
mysql> CREATE TABLE income1(income integer,  
-> accountNo varchar(30),  
-> descrpition varchar(30),  
-> amount varchar(30));
```

**Query OK, 0 rows affected (0.05 sec)**

```
mysql> CREATE TABLE Loan(loanNo integer,  
-> interest varchar(20),  
-> loanAmount varchar(20),  
-> balanceAmount varchar(20),  
-> startDate varchar(20),  
-> endDate varchar(20),  
-> accountNo varchar(20));
```

**Query OK, 0 rows affected (0.09 sec)**

```
mysql> CREATE TABLE Notification(notification_id integer,  
-> notificationType varchar(30));
```

**Query OK, 0 rows affected (0.04 sec)**

```
mysql> CREATE TABLE User (User_id integer,  
-> name varchar(30),  
-> emailId varchar(50),  
-> phoneNumer varchar(30),  
-> income varchar(30));
```

**Query OK, 0 rows affected (0.04 sec)**

```
mysql> show tables;
```

```
+-----+
| Tables_in_expense_tracker |
+-----+
| account          |
| emi              |
| expense          |
| income           |
| income1          |
| loan             |
| notification     |
| user             |
+-----+
```

```
8 rows in set (0.04 sec)
```