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PROJECT REPORT ON

AN ANDROID APPLICATION FOR EXPENSE MANAGEMENT

Ву

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B.Tech CE Semester-VI Subject: System Design Practice

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CERTIFICATE

This is to certify that the practical / term work carried out in the subject of

System Design Practice and recorded in this journal is

the bonafide work of

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No.	Contents	Page no.
1	Introduction	1
2	Software Requirement Specifications	2
3	Design	5
4	Implementation Detail	12
5	Testing & Screen-shots	13
6	Conclusion	23
7	Limitation and Future Extension	24
8	Bibliography	25

Abstract

Now a days there is everything on internet. People usually want to save the expense so that they can't forget it. So, we have developed an android application for Expense management. User can add the expense in the application wherever he/she spent the money. They will have different options for choosing catagories for the particular expense. So, user can see all the expenses on just click and can see catagorywise summary for the expenses.

Introduction

The objective of the project is to develop a system that automates the process and activities of Expense Management. The purpose of the system is to provide basic facility for adding, updating and viewing the expense summary.

User can Add & Update catagorywise expense. User can see the list of expenses in the decreasing order of date. He/She can also see the summary where he/she spent the money and can back up expense list as PDF file.

Technology used:

- Java
- Sqlite Database

Platform used:

Android Studio

Software Requirement Specification

1) End User:

R1 - Add Expense

Description: In this, user can add expense details and amount.

R1.1 Select Catagory

Input: Select catagory from the list.

Output:Catagory selected.

R1.2 Enter Subject

Input: User will have to enter the subject details.

Output: Subject name.

R1.3 Enter date.

Input: Double tap to select a date.

Output: Selected date.

Exception: If date is invalid, then exception msg will be shown.

R2 – Update Expense

Description: User can update expense details if required.

Input: Upadte detail which you required.

Output: Updated expense.

R3 – Delete Expense

Description: User can delete expense details if required.

Input: Delete expense which you required.

Output:Expense deleted .

R4 – View Expense list

Description: User can view expense details if required.

Input: Show expense list.

Output:Expense list.

R5 – View Expense summary

Description: User can view expense summary if required.

Input: Show expense summary.

Output: Expense summary in percentage.

R6 – Make PDF file

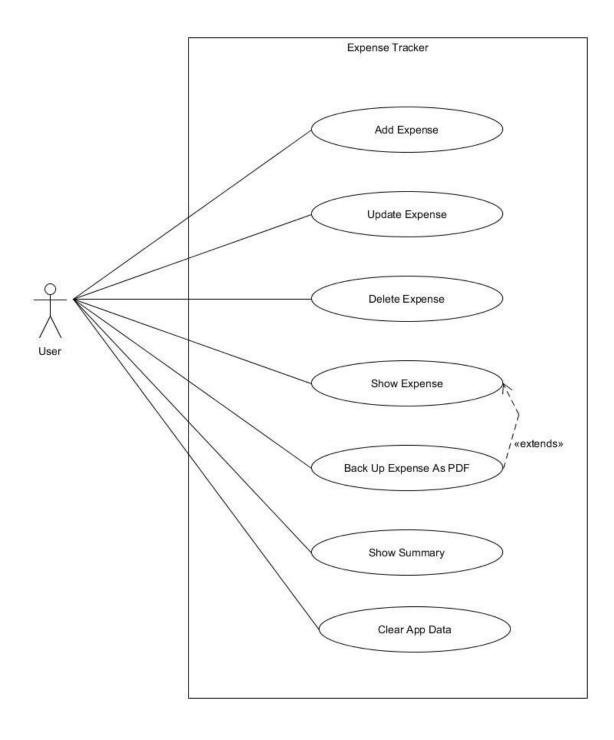
Description: User can store expense list as PDF file

Input: Convert to PDF.

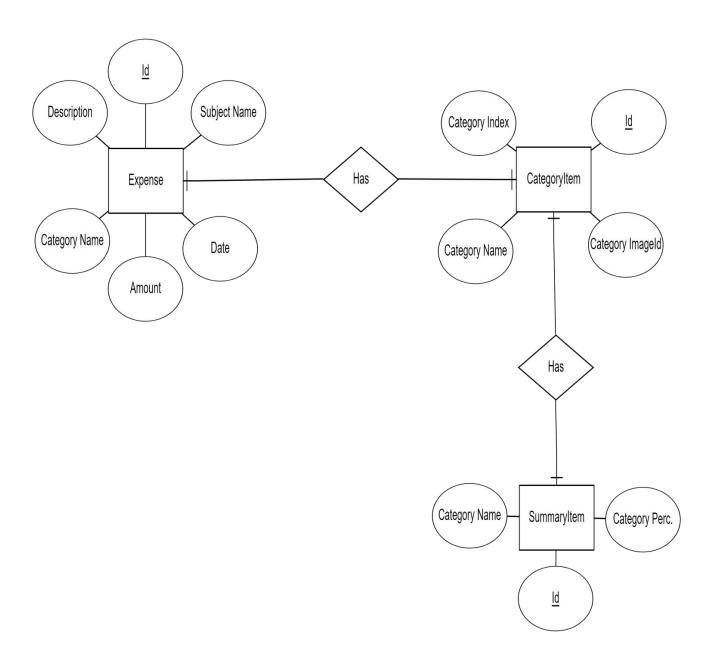
Output:PDF will be stored in external storage.

Design

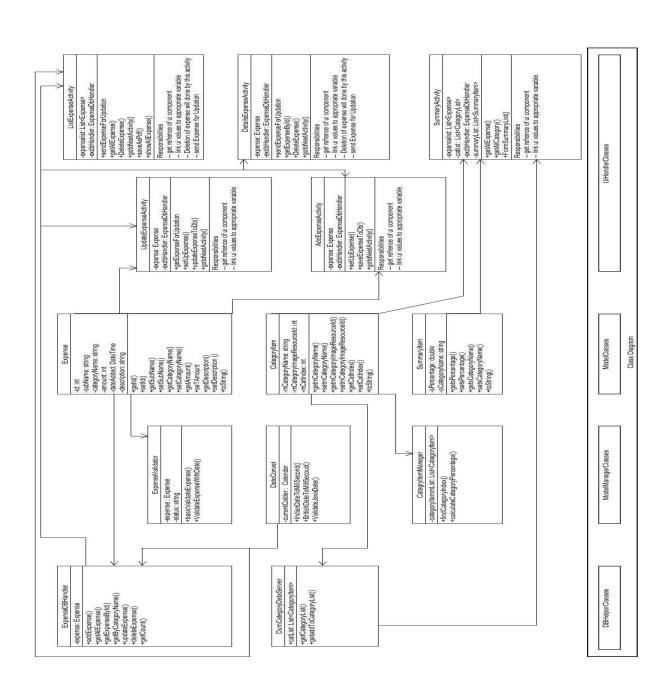
1.Usecase Diagram



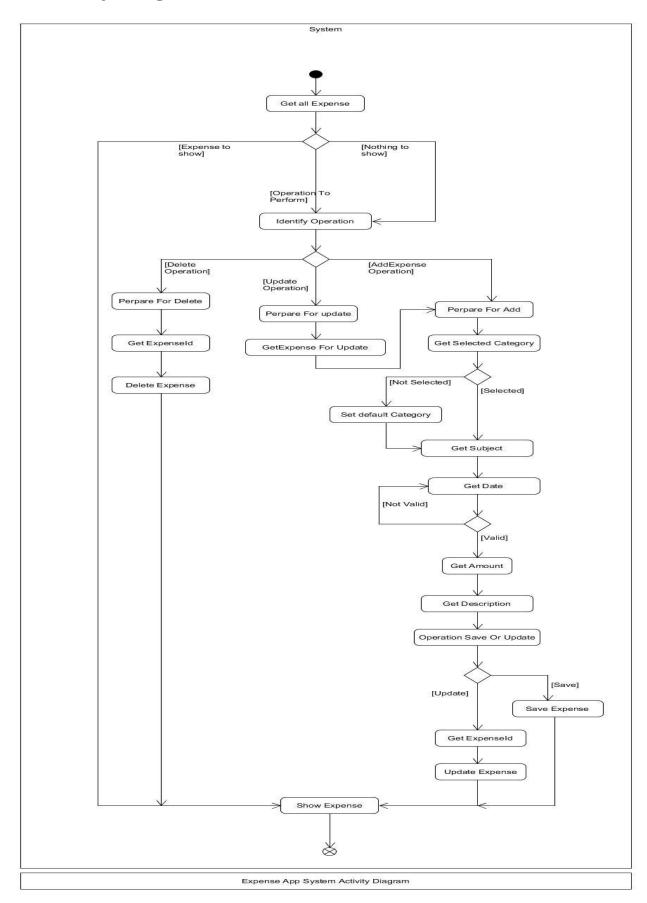
2. ER Diagram



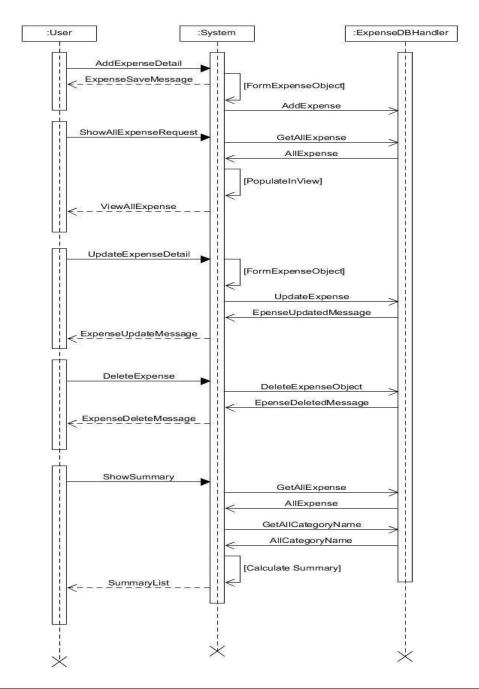
3. Class Diagram



4. Activity Diagram



5. Sequence Diagram



Expense App System Sequence Diagram

6.DTD:

	Expense							
Sr. No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table	Description
1	Id	Number	10	Yes	Yes	PK		Primary Key for the Expense table
2	Subject Name	Varchar2	50	Yes				Subject of Expense
3	Date	DateTime		Yes				By default, current Date Is provided User can change it also.
4	Amount	Number	10	Yes	Yes			Amount for the expense.
5	Category Name	Varchar2	10	Yes	Yes			Category Name select from drop – down list.
6	Description	Varchar2	50	No				User can add short description of expense.

	Category Item							
Sr. No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table	Description
1	Category Name	Varchar2	10	Yes	Yes	PK		Category Name is primary key for category table.
2	Category Image Resource Id	Number	10	Yes				Id number for Image Resource of Category
3	Category Index	Number	10	Yes				Index number for displaying category list in dropdown list

	Summary Item								
Sr. No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table	Description	
1	Category Name	Varchar2	10	Yes	Yes			Category Name is for calculate summary for that category.	
2	Percentage	Number	10	Yes				Represent percentage of category.	

Implementation detail

Expense Module:

In the home page, there is shown Show Expense and Add expense button. By which, User and show the expense history and add new expense respectively. User can also update the expense details and delete specific expense.

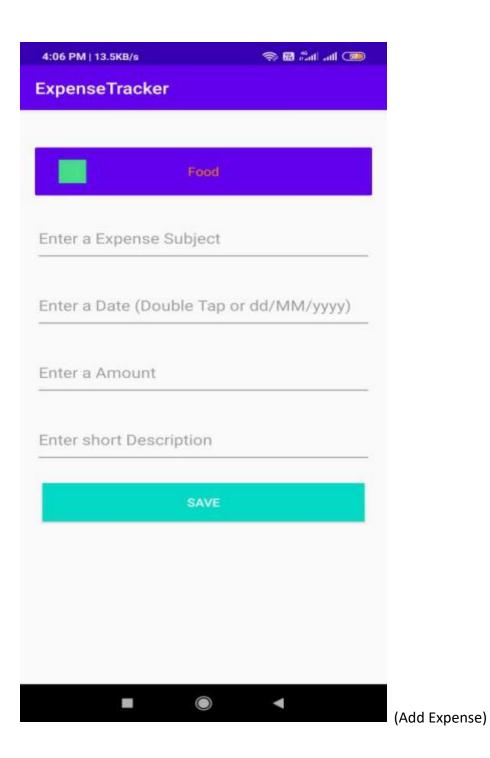
Summary Module:

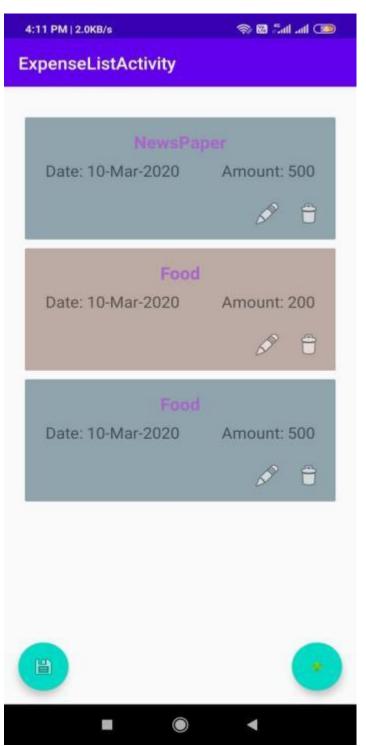
In Summary module, User can see catagorywise expense summary in percentage also. So, user can keep track of his/her expenses like where he/she spend more money.

Testing & Screenshots

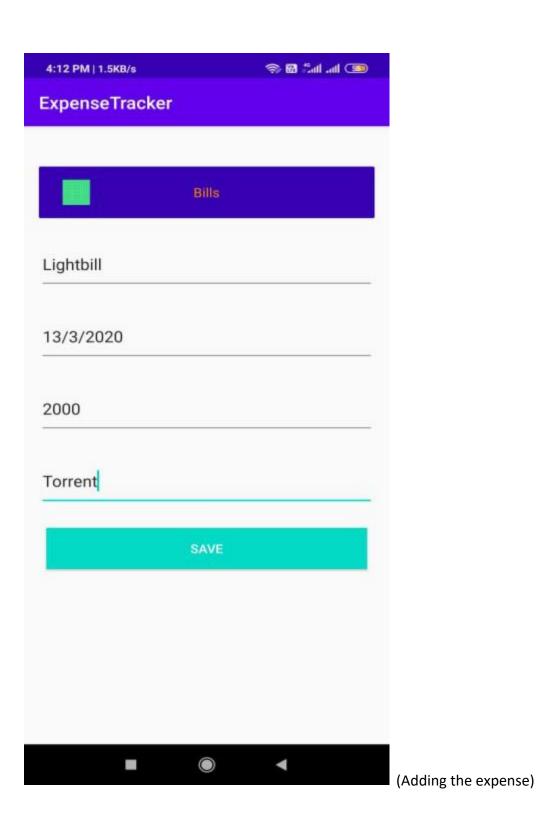


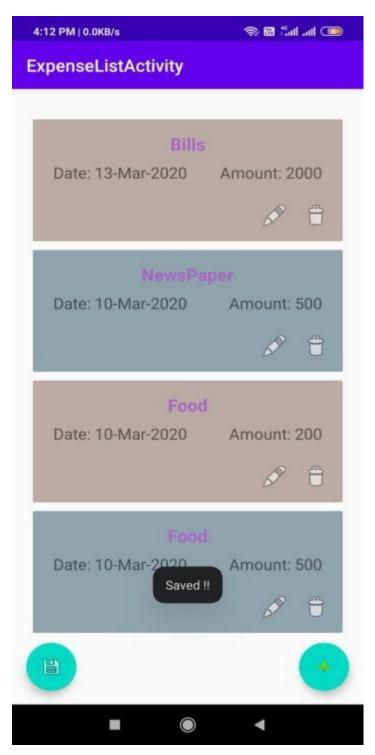
(Home page)



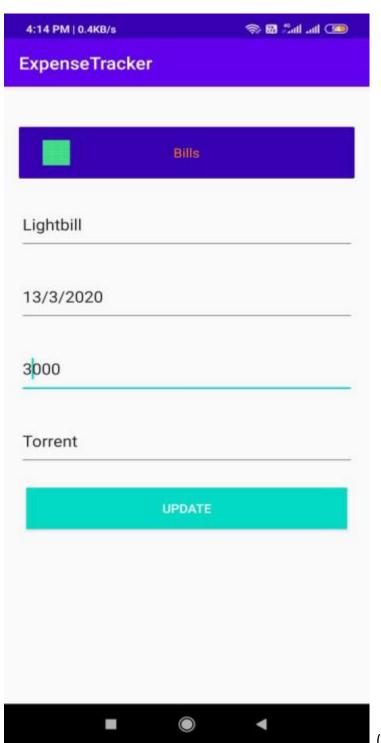


(Expense list)

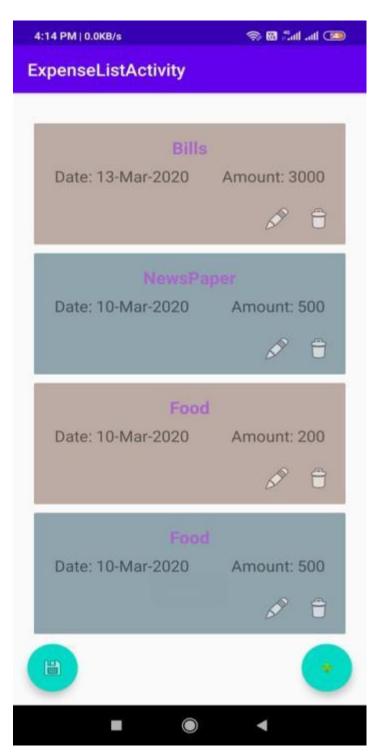




(Expense Added)



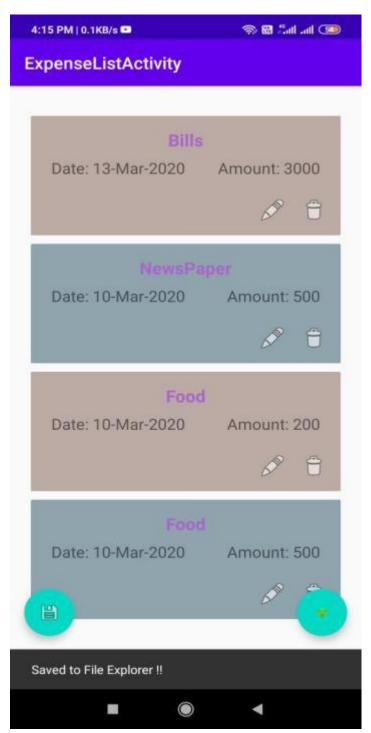
(Updating expense)



(Updated Expense list)



(Summary)



(Save as PDF)



(PDF view of expense)

Conclusion

In this project we have successfully implemented functionalities like Add expense, Update expense, Delete expense, View Expense-list, View Summary and convert Expense-list to PDF. In our android application, Expense list is shown in the decreasing order of date. We have put date validation in our Expense Tracker application.

Limitations and Future Extension

Limitations:

We have not implemented the Custom catagory functionality. Instead we have provided catagory list by which user can choose any catagory. We haven't put datewise expense filter.

Future Extension:

- Custom Catagory will be provided.
- Datewise filte will be provided.
- We are looking to implement pi-chart.

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