

CLUB PASSBOOK

SHIV NADAR UNIVERSITY

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Canva

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GitHub Link:

https://github.com/hridaypradhan/dbms_project.git



INTRODUCTION

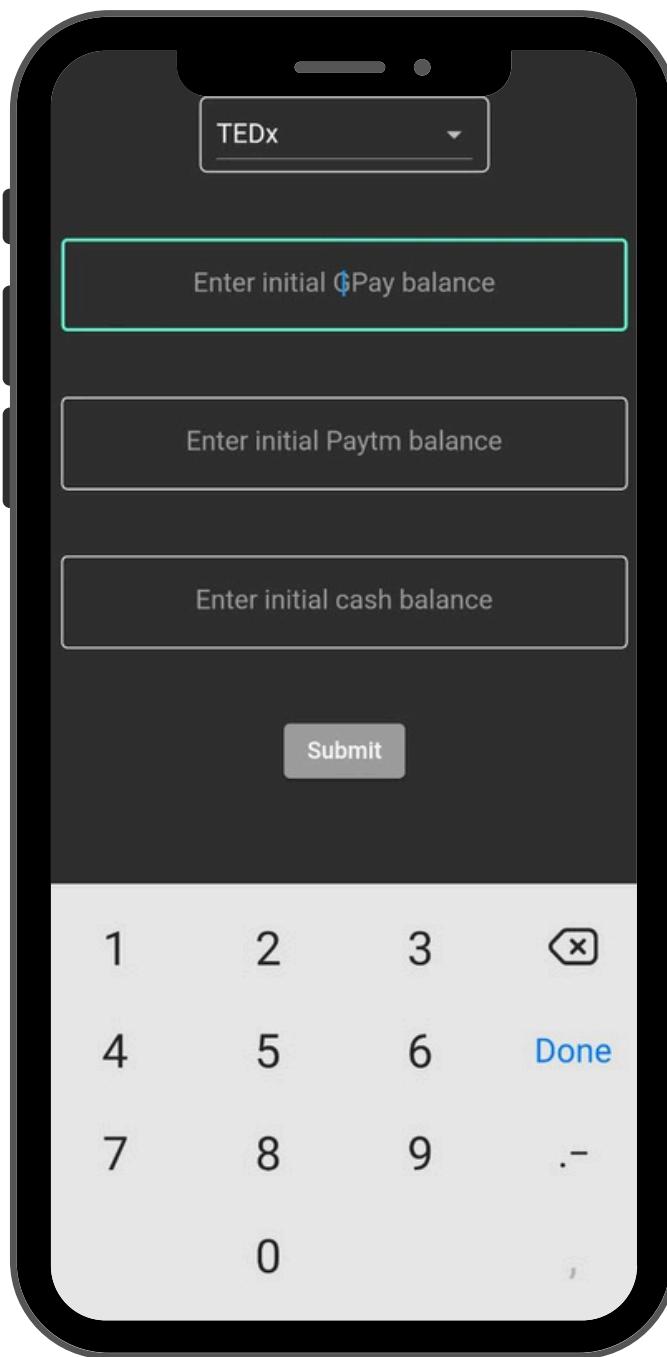
The main objective of our project is to keep a track of each and every monetary transaction made by/to a club. Apart from this, the app will also generate an estimated annual budget according to the club's future events and future requirements.

We selected this topic as it tackles a real-life problem that we have to deal with on a day to day basis.

Hence, this app is a very valuable asset for all the clubs of SNU.

As we either often tend to forget some of the transactions that take place or have so many notes and spreadsheets to keep a note of them, that it becomes a strenuous task to document them all. Thus, so as to not face any difficulties such as reimbursement issues, we've put together this app as a part of our project which can generate not only a consolidated list of all transactions but also the estimated annual budget accordingly.

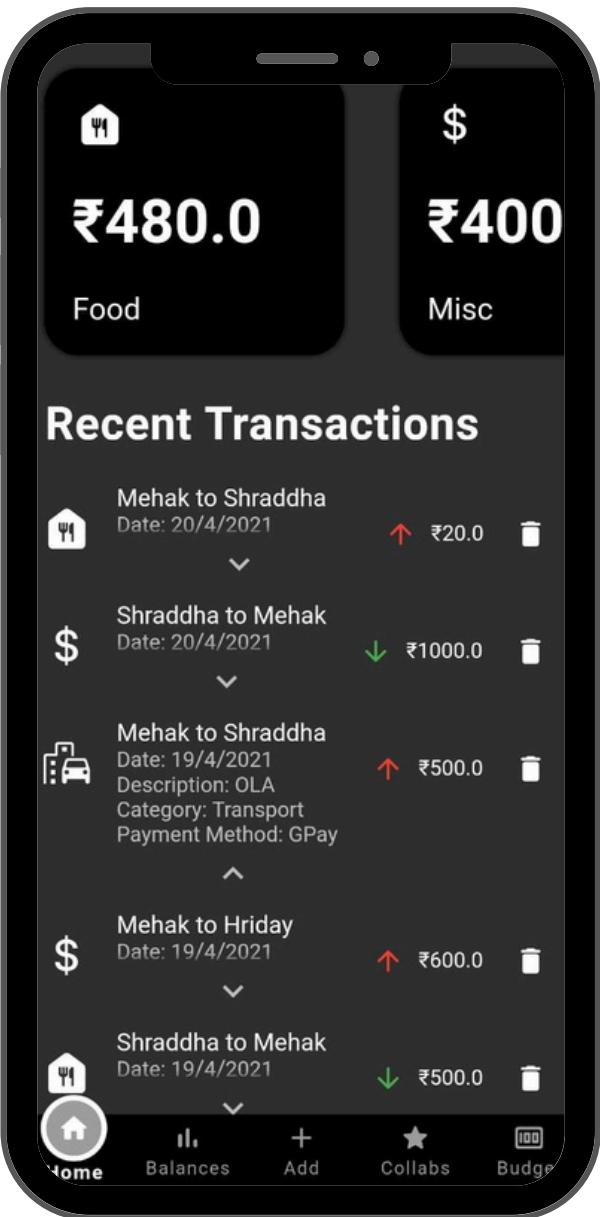
FEATURES IMPLEMENTED



One-Time Login Page

When we use this app for the very first time, this is the screen that pops up. Here, we have to fill in our login details like Club Name, initial GPay balance, Paytm balance and Cash balance which are then used throughout the app for calculating balances left after transactions.

FEATURES IMPLEMENTED



Home Page

Here, all the transactions are displayed in a sorted manner, based on their date.

We have also classified the transactions based on their category i.e Food, Transport or Misc and have displayed the total amount spent on a particular category. Another transaction can be added by clicking on the Add icon at the centre of the navigation bar.

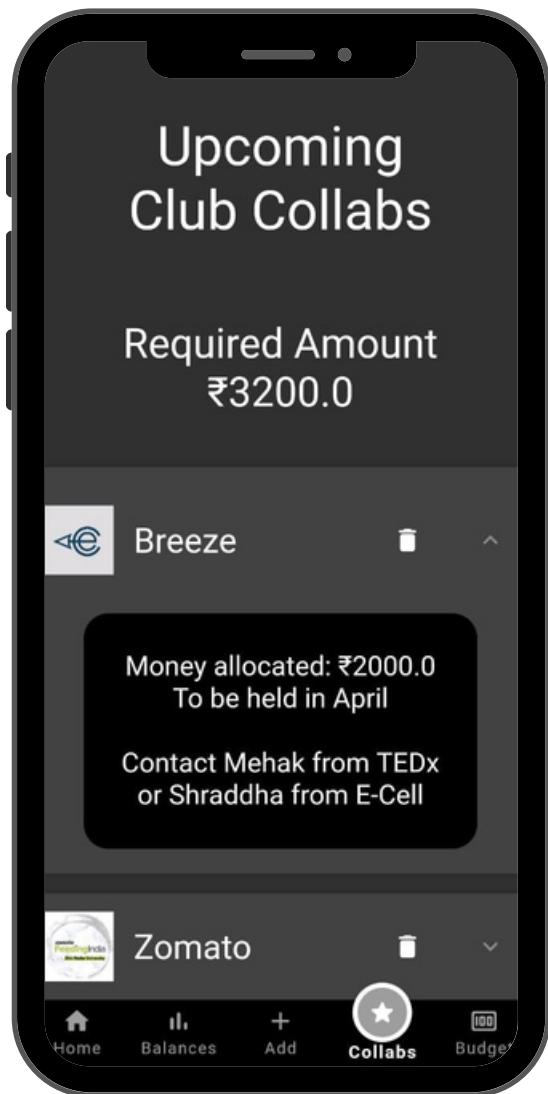


Balances Page

This page records and displays all the initial balances which are updated according to the transactions made.

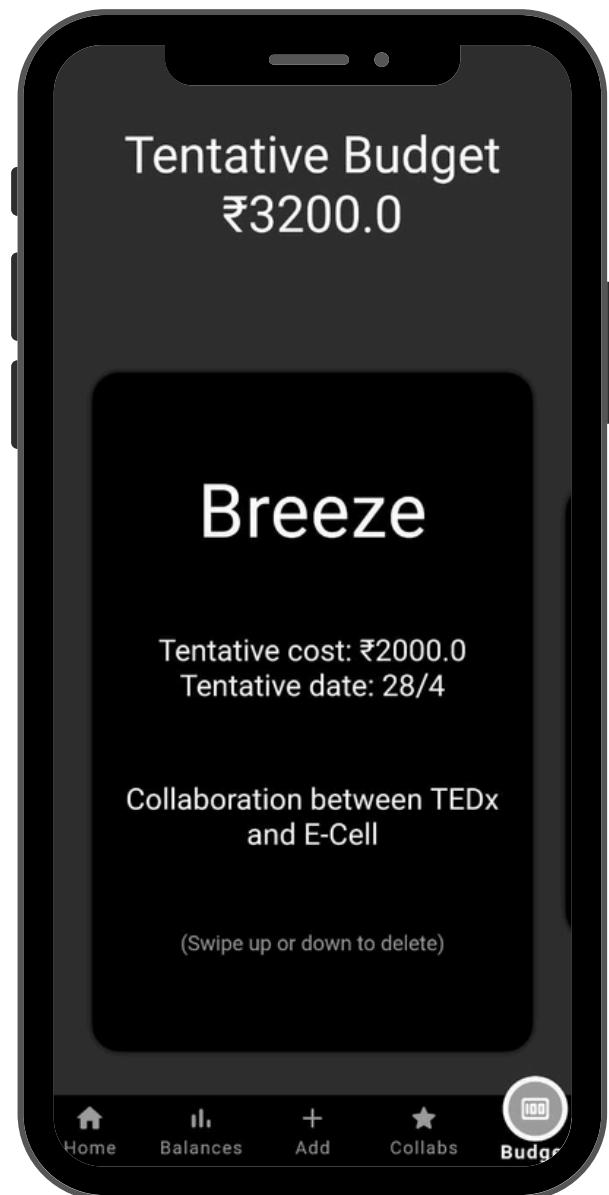
The total amount credited and debited is also displayed.

FEATURES IMPLEMENTED



Collabs Page

This page records all the Upcoming Club Collaborations. These entries are automatically added in the Tentative Budget too. We can add more club collabs by clicking on the Add icon at the centre of the navigation bar.



Budget Page

Here, all the entries for all upcoming events and club collabs are recorded. Furthermore, the tentative budget is calculated and displayed. More Events can be added by clicking on the Add icon at the centre of the navigation bar.

SQL KEYWORDS USED

- Flutter Framework which uses Dart Language is used
- Flutter package called sqflite is used

DATABASE TABLES

- Select
- Insert
- Order by
- Group by
- If null
- Sum
- Case
- Delete
- Where
- Create

FRONT-END FRAMEWORK AND LANGUAGE

- Initial Data
- Transactions
- Balances
- Tentative Budget
- Club Collabs



CLUB PASSBOOK

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- In a regular app, the data resets whenever the app restarts but in order to obtain persistent data, we used SQL. SQL for the mobile platform is called SQLite and to implement this in Flutter, we used a Flutter package called sqflite.
- We used one-time "log-in" so that we don't have to log in every time we want to use the app.
- The input i.e the initial data we took at the beginning is used throughout the app.

LIMITATIONS OF OUR APP

- We cannot logout
- We cannot edit the initial information which we provided
- Since, it's a demo app, only a limited number of clubs, payment methods and categories are provided.

HOW IS OUR
APP DIFFERENT
FROM OTHERS?

DATABASE TABLES

initialData

clubName	text
gpay	decimal
paytm	decimal
cash	decimal

Initial Data

This table is generated when we log in for the very first time and enter the initial data.

This data is then used at various stages.

ClubTransactions Table

This table is generated when a transaction has to be made and all the details of the transaction have to be recorded.

clubTransactionsTable

	int	PK
payer	text	
payee	text	
description	text	
amount	decimal	
paymentMethod	text	
paymentCategory	text	
dateTime	text	
transactionDirection	text	

balancesTable

gpay	decimal
paytm	decimal
cash	decimal
income	decimal
expense	decimal
totalBalance	decimal

Balances Table

This table is generated when initial balances are entered and then these are updated according to the transactions made.

The total amount credited and debited is also recorded and updated.

DATABASE TABLES

Budget Table

This table is generated whenever a new entry for a future event or club collaboration is created. The total budget is also calculated and keeps on getting updated according to the entries.

budgetTable

eventName	text
amount	decimal
dateTime	text
description	text

clubCollabsTable

clubOne	text
clubTwo	text
eventName	text
eventMonth	text
pocOne	text
resourcesAllocated	decimal
pocTwo	text
imageUrl	text
isExpanded	int

ClubCollabs Table

This table is generated when a new entry for a future club collaboration is created.

This entry is also reflected in the Budget Table.