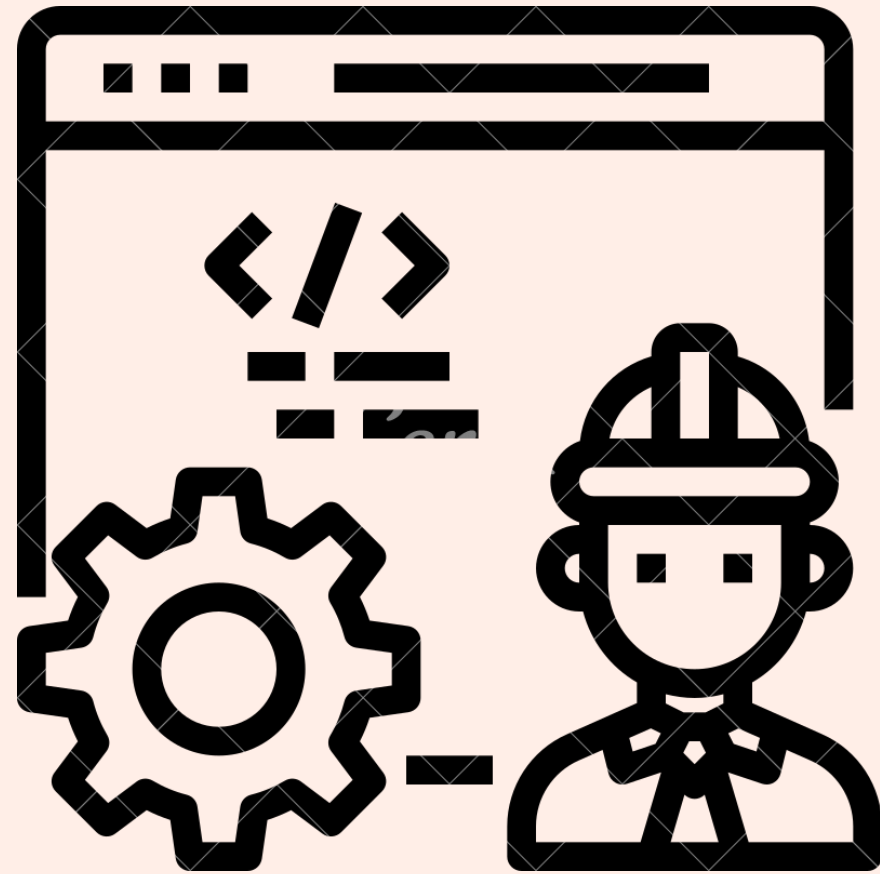# Hack-a-thon
Solving for India - NIT Jamshedpur

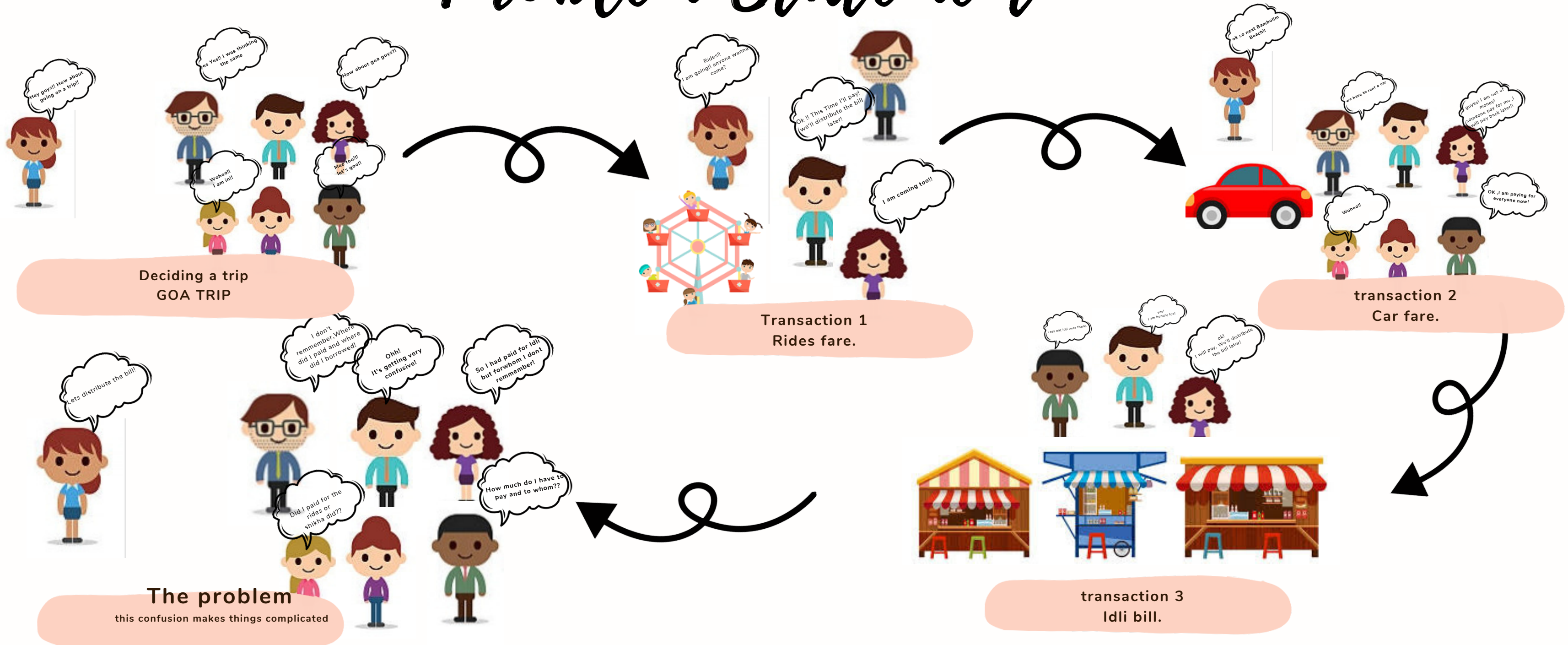**TEAM NAME: Dev_OP**

PROJECT NAME: FinTrack
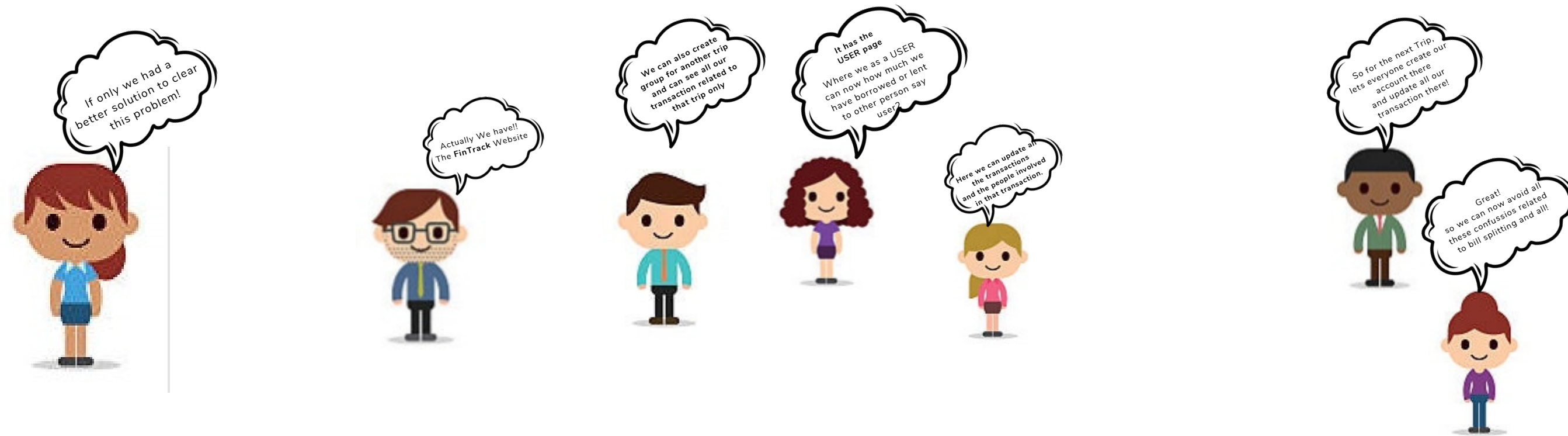
TEAM MEMBERS: Nand Raj
Ekta Kumari

Problem Statement

The procedure of dividing the bill among a large group of persons during a trip is sometimes complicated and time-consuming.

It's up to each person to figure out what their fair share is, which can lead to confusion and arguments.
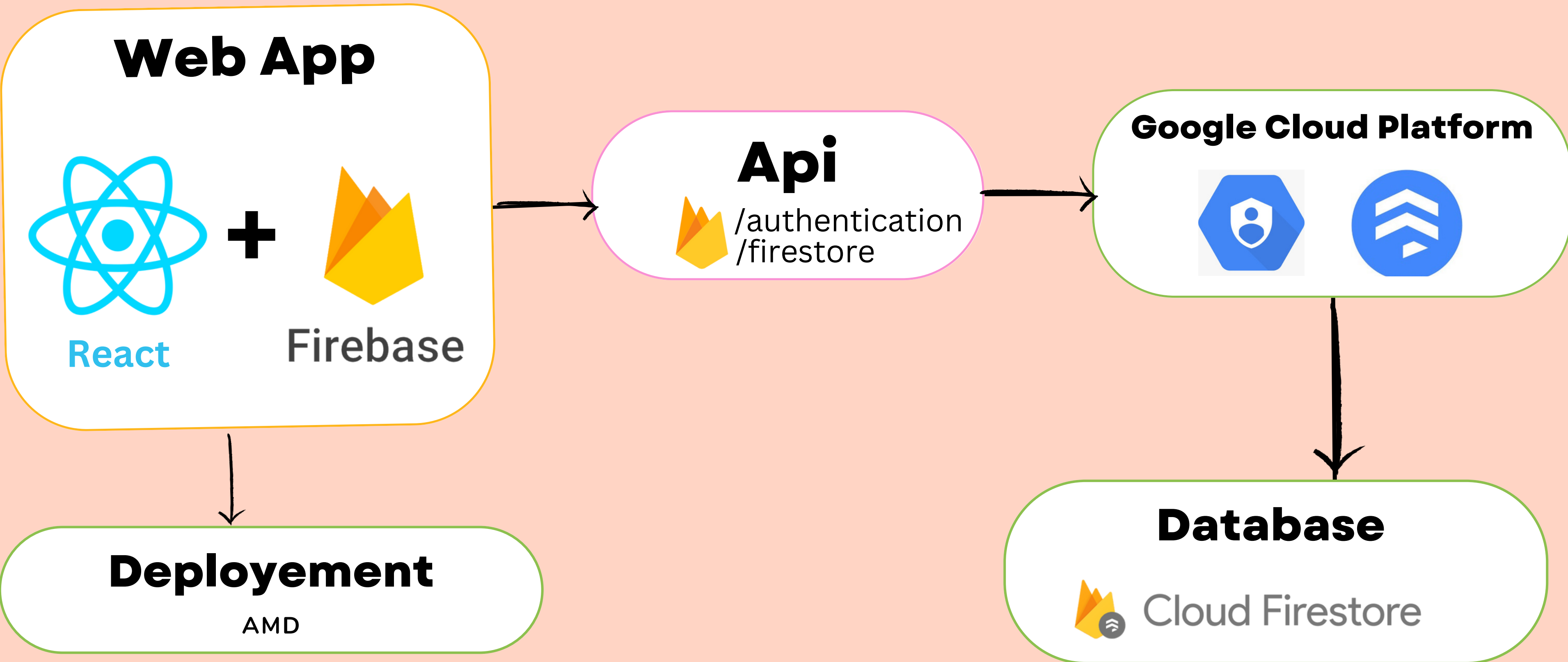
Solution: The Idea.

This website is designed to make it easier to divide up the bill among multiple persons by giving a simple interface for doing so.
The website then determines how much each participant should pay after considering everyone's share.
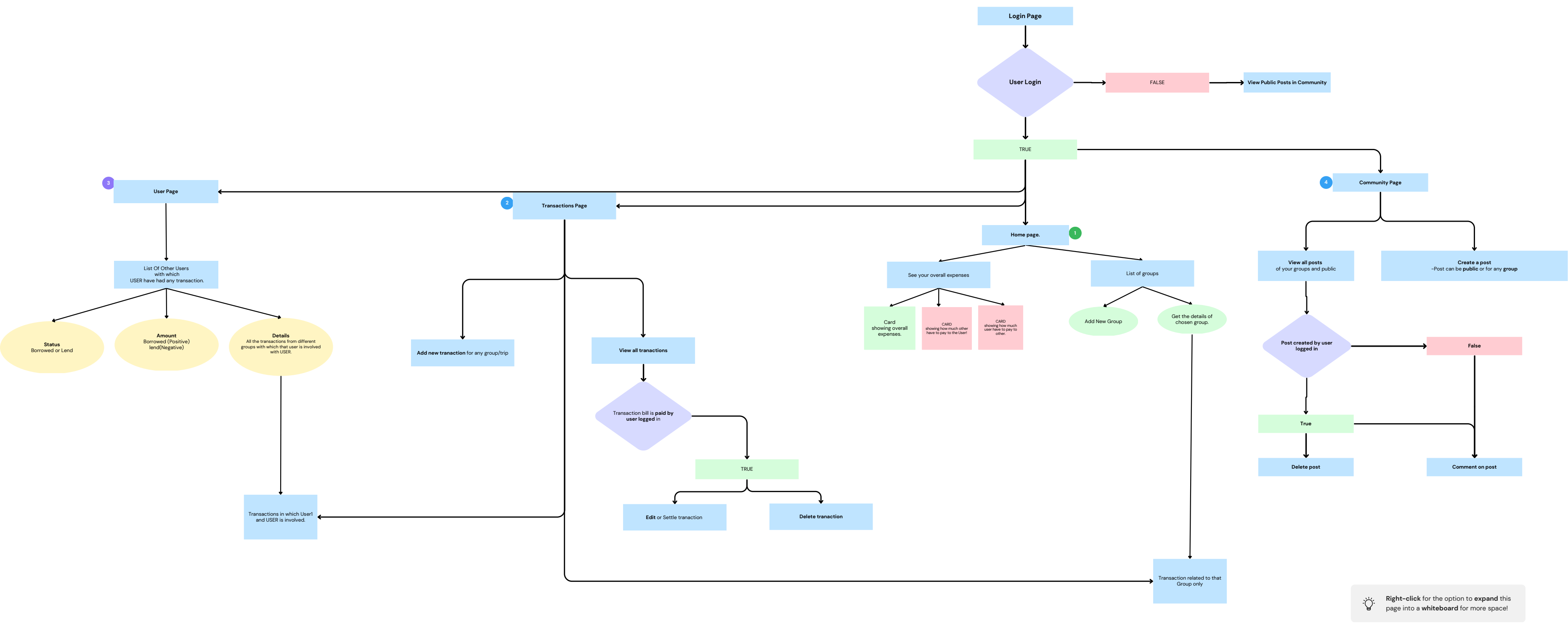
The intention is to facilitate effortless bill sharing by doing away with time-consuming laborious calculations, hence minimizing room for error and maximizing openness."

As we say,
"Split the Bill, not the Friendships!!"

Technical Architecture

Web App

React + Firebase

Api
/authentication
/firestore

Google Cloud Platform

Deployement

AMD

Database

Cloud Firestore

Let's visualize our current process
and workflow of our website.

Home page

- **Home page shows Three Cards:**

  a. **Total Expenditure**
  The total money that the user has spent that is sum total of all the transactions and from all the groups wherever the user is involved.

  b. **I owe people**
  The total money that the user have lend to other users summing over all the transactions.

  c. **People owe me**
  The total money that the user has to pay to the other users summing over all the transactions.
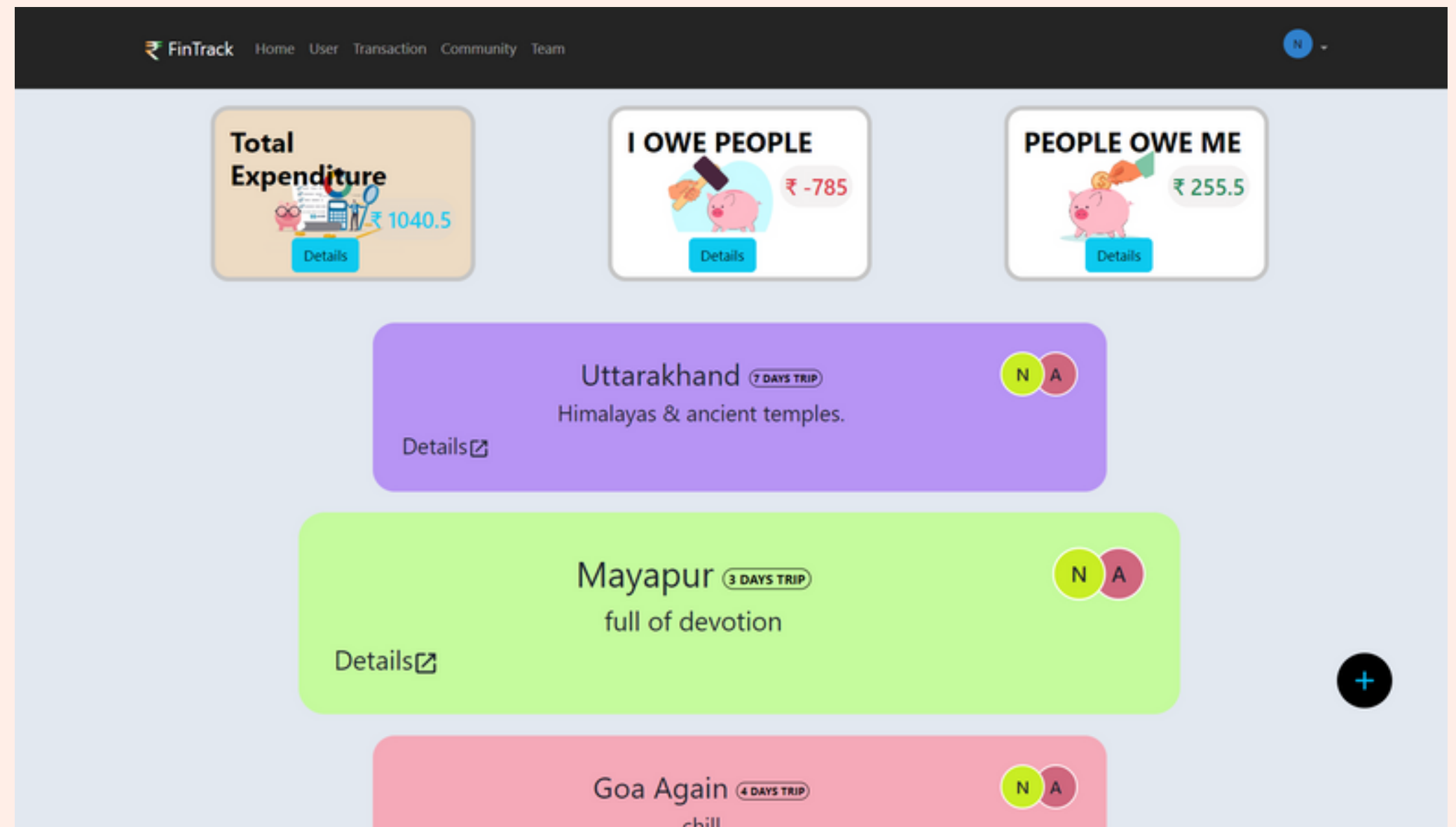
- **It shows different cards for different groups.**
  For each group, we can see
  - All the transactions related to that group.
  - All the users are involved in that group.
  - Number of days of the trip.

- **We can add new Group.**

Website's Home page

User page

- **The user page shows the list of other users with which the user is involved in any transaction.**

- **The table shows a list of users with the following information:**

  a. **User**

    the user with which there ever happened any transactions in any group.

  b. **Status**
    It shows whether
    - I've lent the money(Green badge)   (or)
    - I have borrowed the money(red badge)

  c. **Amount**

    The total amount that is sum total of all the transactions ever happened between me and that user.
    - if lent, the amount will be shown negative, red
    - if borrowed, the amount will be shown positive,green

  d. **Details**
    By clicking on this button, You got to see all the transactions details where you have involved with that user.

₹ FinTrack   Home User Transaction Community

Users

Name	Status	Amount	Details
EKKRI	LENT	231.5	Details
TEST1	BORROWED	-525	Details

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https://fintrack-nrj.netlify.app/user

transaction page

The Transaction page shows All the transactions .

a. User who had paid for others.

b. Users who are involved in that transacrion.

c. Date and day

c. **Status**
- Pending(Red)
- Settled(Green)

b. **Actions**
  It shows two Actions:
  - Delete
  - Settled

We can filter the transactions on the following basis:

A. **Group-wise filter**

B. **User-Wise filter**

B. **Group+User-Wise filter**

We can add a new Transecton by clicking on the add button.

Website's transaction page