

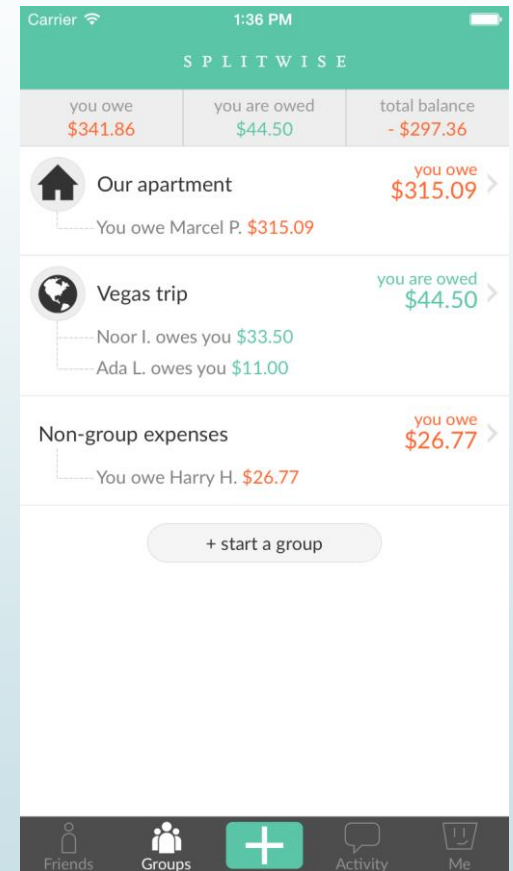


Splitwise++

# Motivation

Annoying problems with Splitwise:

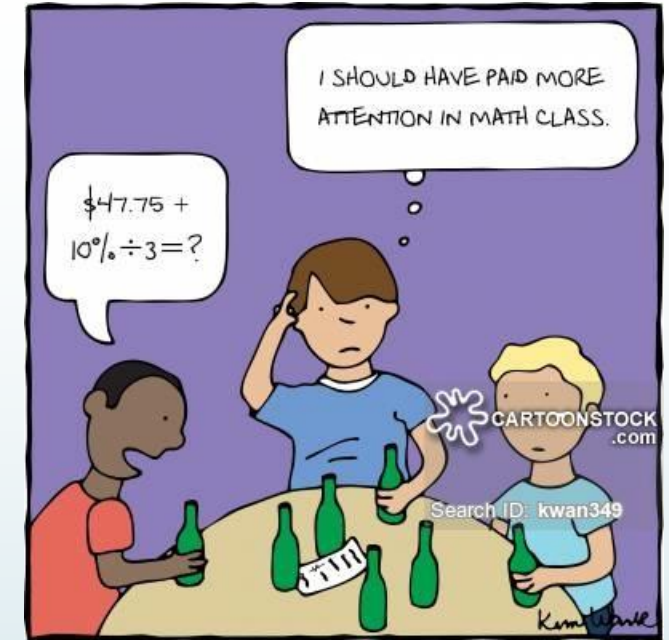
- The balance bug: The app has this weird bug, where it fails to calculate the correct balance in certain situations.
- Participation Problems
- No Concrete Record of Bills



# Significance

My App tries to fix the previously mentioned problems by:

- Having a simpler database design.
  - Elimination of extraneous features/ tables.
  - Better Indexing.
  - Reduces Bugs.
- An improved way of sharing a bill.
  - Users can choose the items they want to pay for.
  - Better explained in the demo.



"I would love to split your bill into twelve separate checks!"

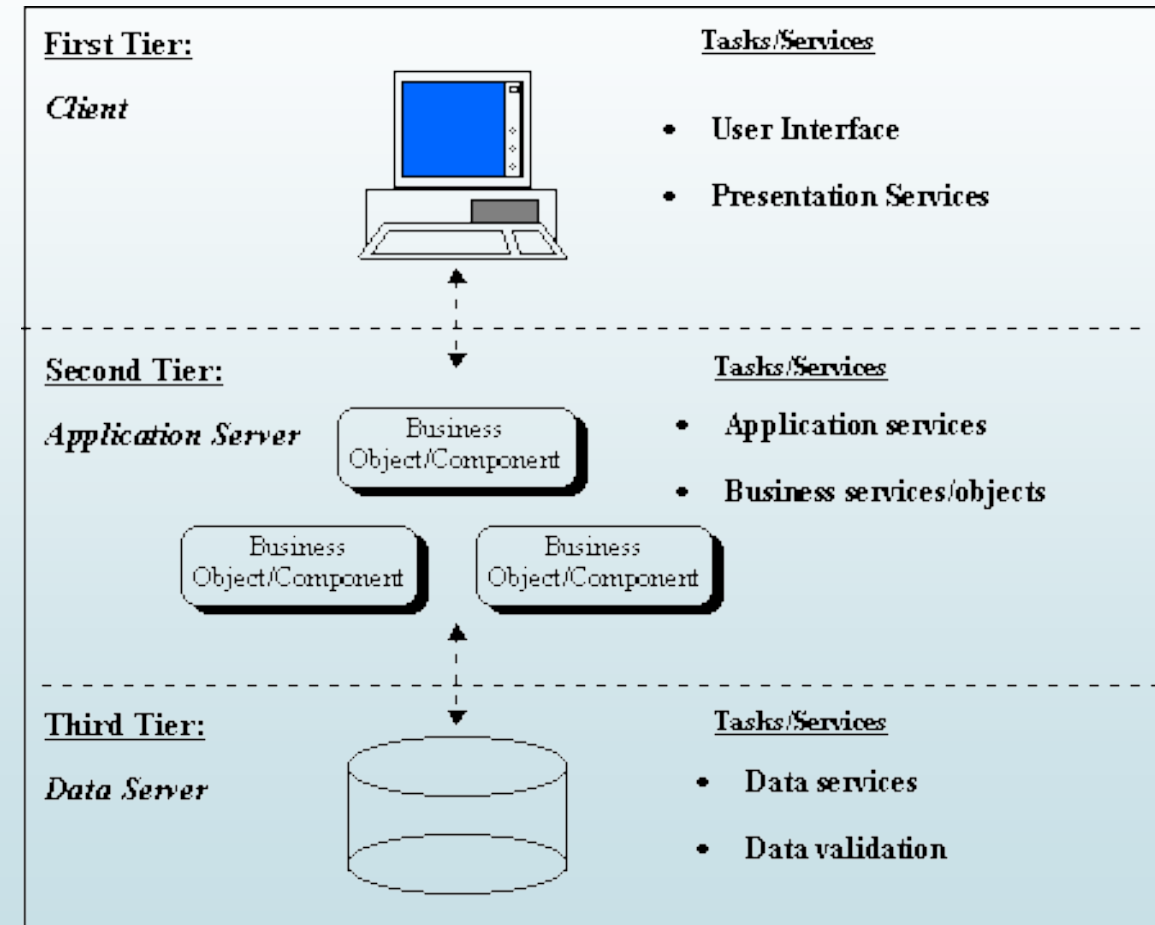
Said no server ever



someecards  
user card

# Architecture

- The Application Follow a 3-Tier Client-Server Architecture.
- MySQL forms the underlying DBMS.
- The API(api.java) act like an Application Layer
- The Swing Frontend from the User.
- This essentially extends the architecture we had for Homework 3.

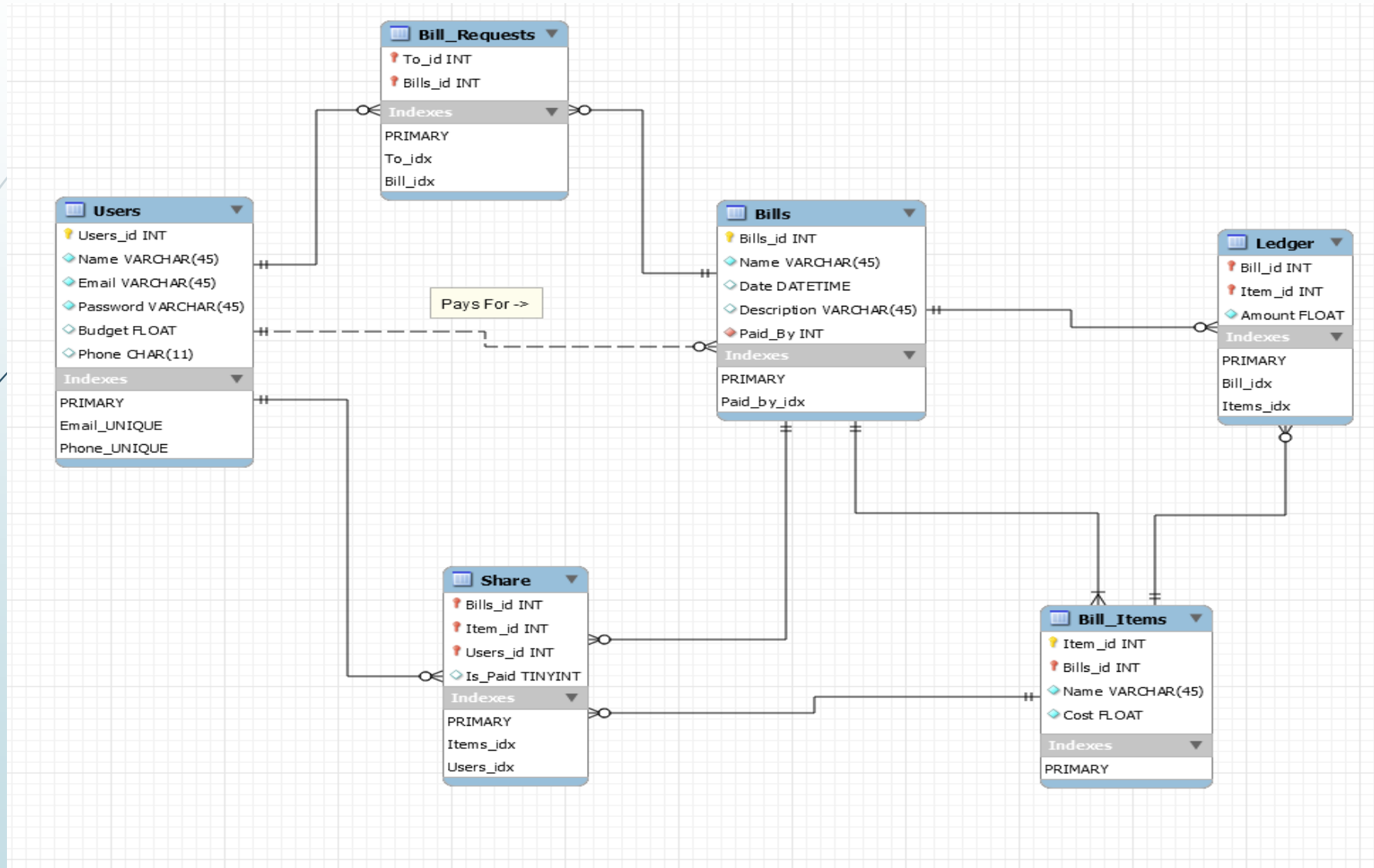


# Use cases

- This app is for:
- Friends/ roommates
  - Ensure that every bill is split equally
  - Everyone gets paid.
- People trying to maintain a budget
  - To keep track of the money they spent
  - What did they spend money on.
- The app can also be used as a general record of all the bills that we generated by a user.



# Conceptual Design





YOU MADE IT TILL THE END!