

# Bill Splitter

## Abstract

This is an android application which will be written in Java. The application's main function is to split a bill (e.g restaurant bill) fairly among party members of the user. There should be different modes/ways (which further design is needed) to split the bill. One example of this split could be to divide all party members by the bill split. Ultimately, this will easily provide for the users a quicker, easier and less-prone to mistake solution to bill splitting

## Requirements

- System should ask for total amount of the bill
- The system should have a GUI facticilites for certain activities which include:
  - Main menu be split as boxes which lead to different menus
  - Menu for manual splitting:
    - Addition button for adding members which should:
      - Ask for the Name and Amount owed by person, which will then be added to the overall reduction
    - Empty number box for the total bill which when clicked on:
      - Should ask for total
      - have a tick box if VAT is included (if VAT is not included, at the bottom of the UI (next to the addition party member button), should be a ungrayed box for VAT manual input.
      - Tip
    - VAT and Tip boxes for manual input (VAT may be grayed out)
  - Menu for fair splitting
    - Text boxes for:
      - Total, members, VAT, tip, final total and each person

## Non-Functional Requirements

- Various different ways to split a bill
- Be able to hold a large amount of people at parties (scroll bar)
- Rounding done accurately

## Design