

# GroupPay



# Outline

- Motivation
- Introduction
- Design
- Major Features
- Team Members' Responsibilities



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# Motivation



- Daily bill splitting problems between friends or roommates
- Event fundraising problems

<http://blog.mylifetime.org/index.php/2013/10/philanthropy-spotting-acts-of-kindness/file6771267335956-share-money/>



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# Introduction

- An android app deployed on Azure
- Manage sharing expense
- Create groups to split bill
- Create events for fundraising

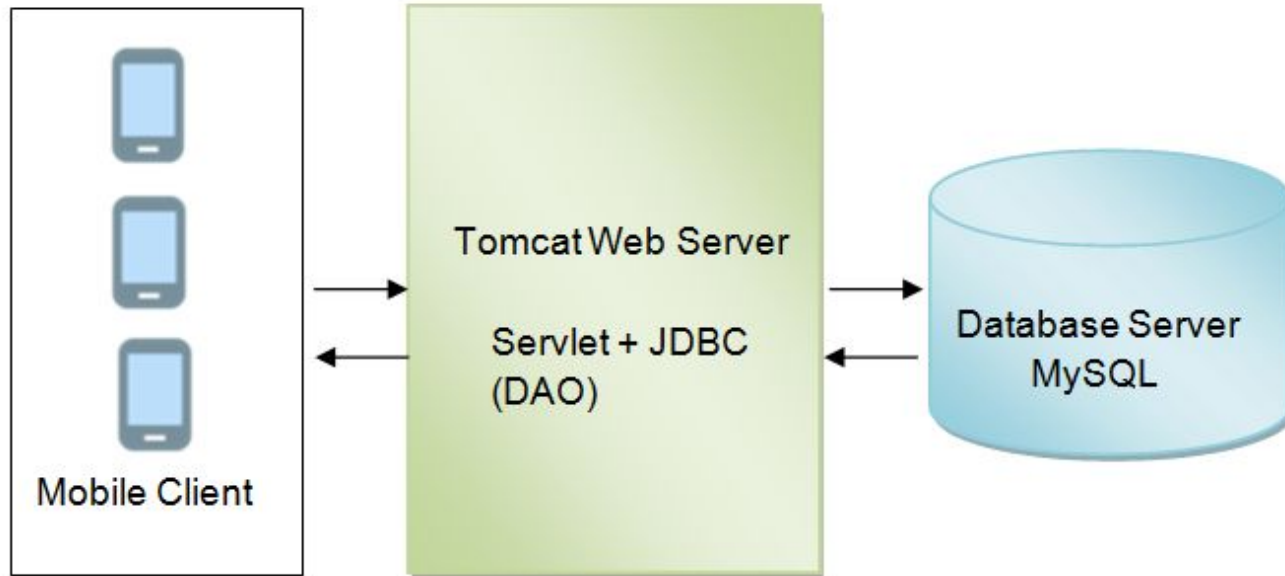


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- Motivation
- Introduction
- Design
  - System Architecture Design
  - Database Design
- Major Features
- Team Members' Responsibilities

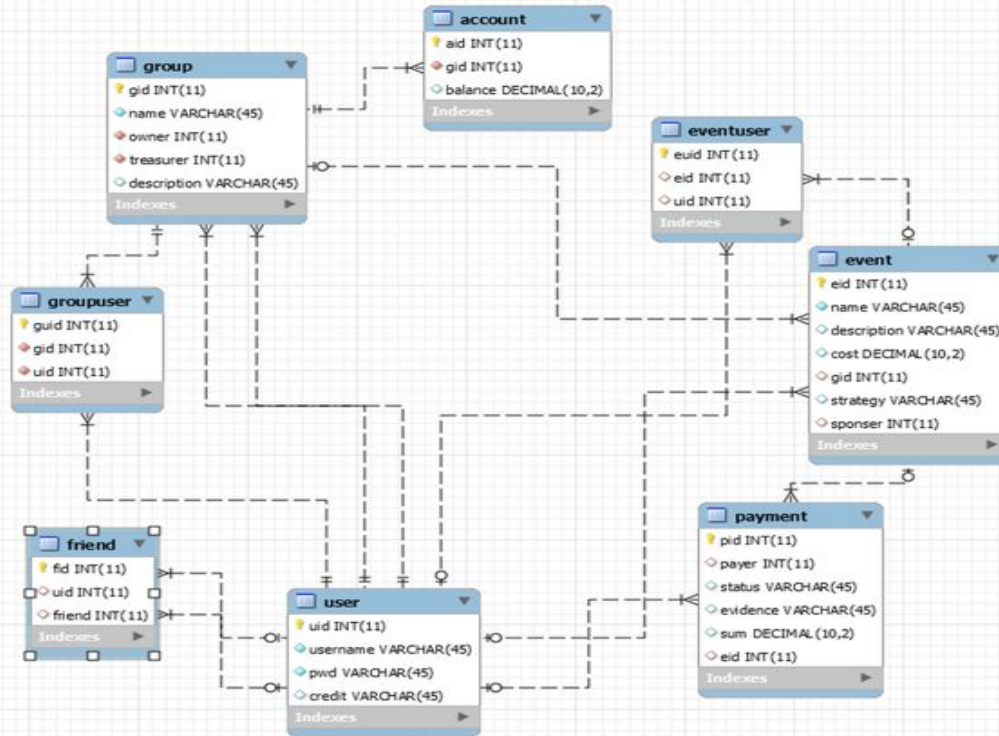


# System Architecture Design





# Database Design



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# Major Features

- User Module
- Friend Module
- Group Module
- Finance Module
- Event Module



# User Module

- New User Register

 group\_pay

Email

fruit@gmail.com

Name

fruit


Password

••••

Register

An existent user! Login here

- Existed User Login

 Paypal-User Login

Name: 

paul

Password: 

•

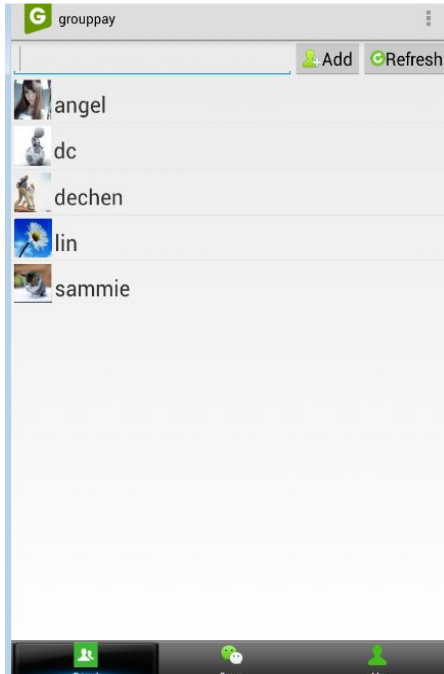
Cancel ☐ Login

New user? Register here

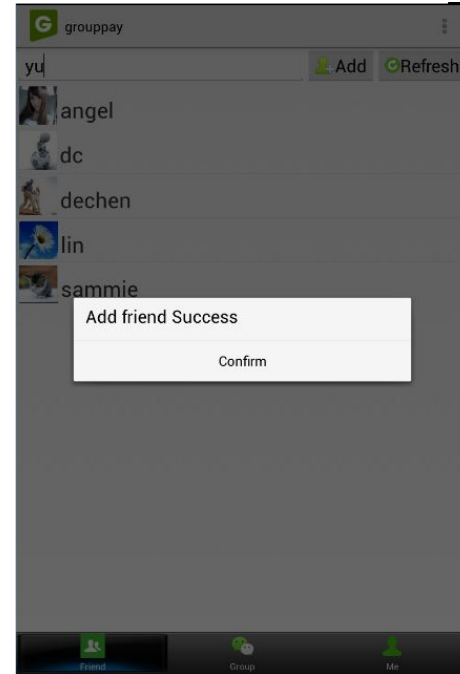


# Friend Module

- Friend List

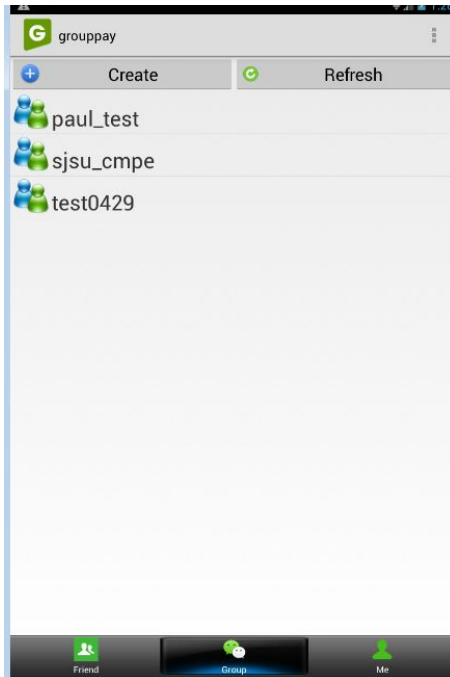


- Add a Friend



# Group Module

- Group List



- Create a New Group

A screenshot of the 'Create a New Group' screen in the 'groupapp'. The form includes the following fields and options:

- Group Name:** A text input field containing 'drink in Milpitas'.
- Description:** A text input field containing 'tomorrow, 10 PM'.
- Treasurer:** A dropdown menu with 'angel' selected.
- Friend List:** A list of friends with checkboxes for selection:

Friend	Selected
angel	<input checked="" type="checkbox"/>
dc	<input type="checkbox"/>
dechen	<input checked="" type="checkbox"/>
lin	<input type="checkbox"/>
sammie	<input checked="" type="checkbox"/>
yu	<input type="checkbox"/>

At the bottom, there are 'Cancel' and 'Create' buttons.



# Group Module Cont'd

- Group's Detailed Information

groupapp

**Group Info**

Name: paul\_test

Description: only test

Owner Name: paul

Treasurer Name: paul

**Group Members**

dc

dechen

paul

invite friends to join

- Invite Friend(s) to Join

groupapp

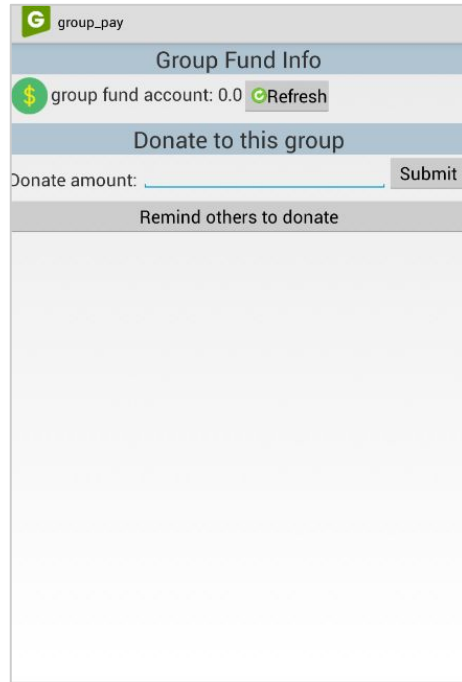
**Invite friends**

angel	<input type="checkbox"/>
dc	<input type="checkbox"/>
dechen	<input type="checkbox"/>
lin	<input checked="" type="checkbox"/>
sammie	<input type="checkbox"/>
yu	<input type="checkbox"/>



# Finance Module

- Display a Group's Fund Info



group\_pay

Group Fund Info

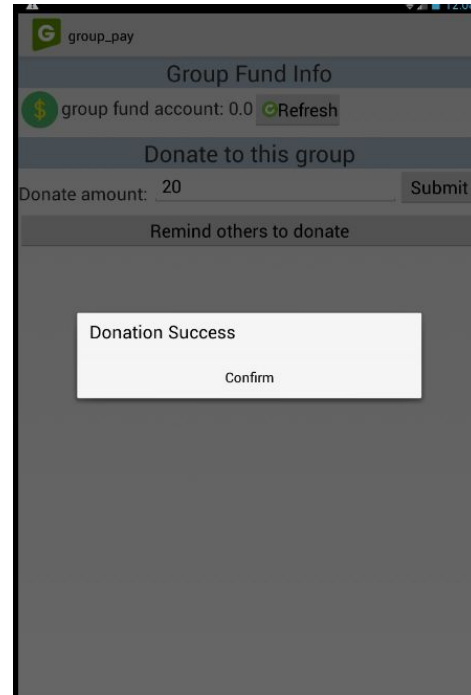
\$ group fund account: 0.0 Refresh

Donate to this group

Donate amount:  Submit

Remind others to donate

- Donate to a Group



group\_pay

Group Fund Info

\$ group fund account: 0.0 Refresh

Donate to this group

Donate amount: 20 Submit

Remind others to donate

Donation Success

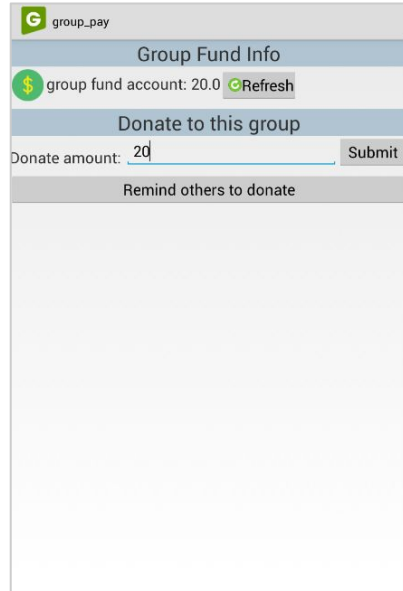
Confirm





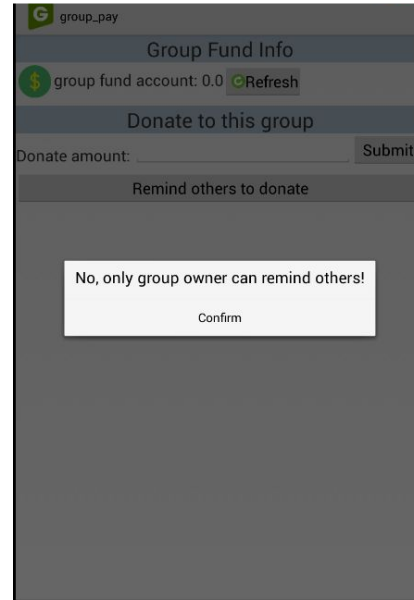
# Finance Module Cont'd

- Display a Group's Updated Fund Info



The screenshot shows a mobile app interface for a group's fund information. At the top, there's a header with a green 'G' icon and the text 'group\_pay'. Below this is a section titled 'Group Fund Info' with a green '\$' icon, the text 'group fund account: 20.0', and a green 'Refresh' button. Underneath is a section titled 'Donate to this group' with a text input field labeled 'Donate amount:' containing the value '20' and a 'Submit' button. At the bottom is a section titled 'Remind others to donate'.

- Remind Group's Members to donate



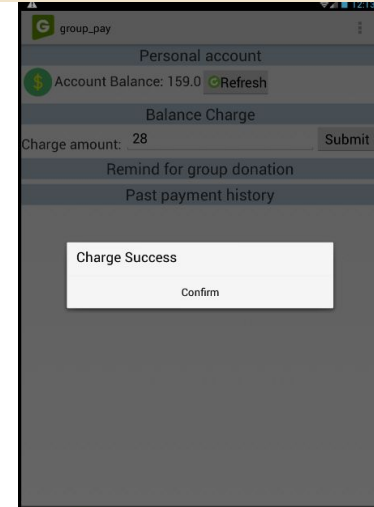
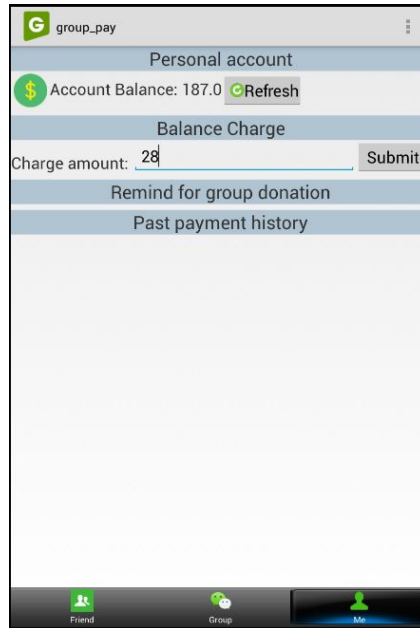
The screenshot shows the same mobile app interface as the previous one, but with a dark background. The 'Group Fund Info' section shows a balance of '0.0'. The 'Donate to this group' section is visible. The 'Remind others to donate' section is active, displaying a white error message box that says 'No, only group owner can remind others!' with a 'Confirm' button below it.



# Finance Module Cont'd


On the other hand,

- User's account is charged the amount he/she just donated.





# Event Module

- Event View

 group\_pay

Event Info

 Event name:


 Event description:

Propose an event

Submit cost receipt

Treasurer calculate cost

- Initiate an Event

 group\_pay

Event Name: drink a beer

Event Description: tonight in Milpitas

How the cost is expensed

paid by public fund


Cancel

Submit



# Event Module Cont'd

- Upload Pictures as the Receipt for an Event



The screenshot shows a mobile application interface with a grey header bar. On the left of the header is a green square icon with a white 'G' and the text 'group\_pay'. Below the header is a white bar with a green border. On the left of this bar is a small green button with the text 'Add'. In the center is a large white button with a green border and the text 'Choose picture'. On the right is a small green button with the text 'Submit'. The main area of the app is a large, empty white rectangle.



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Demo