



SPLITPAY
USER MANUAL

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App Name: **SplitPay**

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Installation requirements

Minimum Android/API version : 14 (Android 4.0 Ice Cream Sandwich)

Free disk space : 8.82 MB

Permissions : send SMS Messages
read your phone contacts
full network access

Why SplitPay? What is it?

People usually tend to go out with friends or roommates to restaurants or shopping or for movies or travel. At the end, always a single person ends up in paying for every individual and all the other people have to pay him “later”. The person who has to be paid has to ask others to pay their share within certain period and also each individual has to remember the share owed by him for this transaction, which would be a very tedious job.

In order to avoid this confusion and tedious process we came up with an idea to create an android application called “SplitPay”. SplitPay is an android application which can be used to maintain accounts and make payments between people in a group that the user is registered using their credit or debit card. Also by using SplitPay, users can maintain accounts and pay money they owe to other members without any hassles.

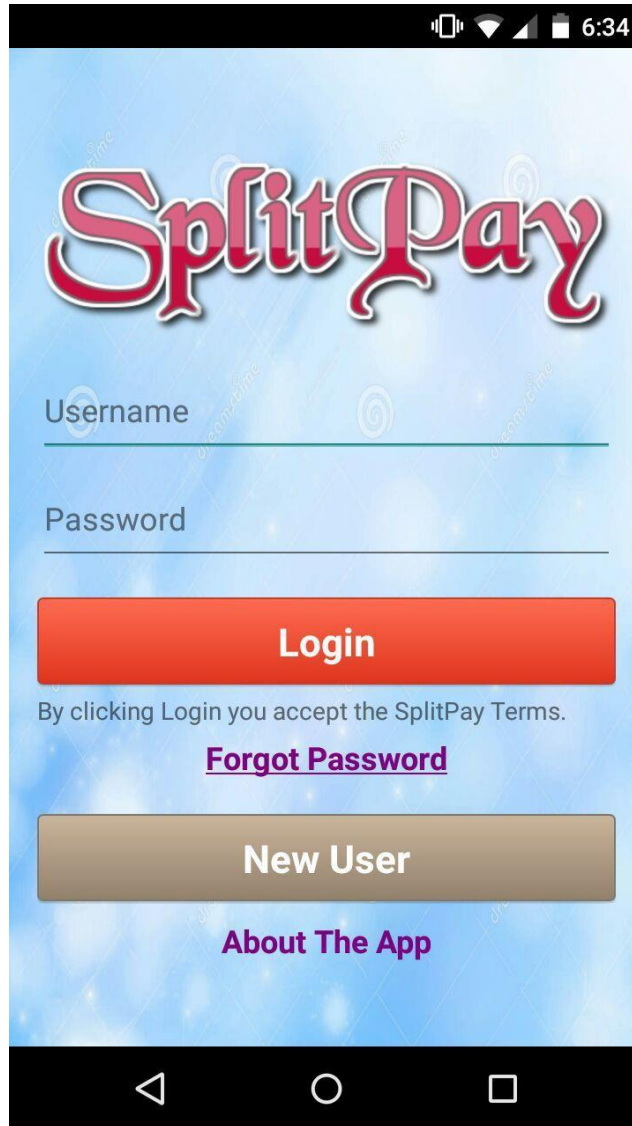


Snapshot 1: About the App

Features and instructions

SplitPay Login Page

The login screen contains the username and password field to enter the user credentials. A query is passed to the database to check if the username and password entered match with the entries entered while registering. If the user enters incorrect username or password a toast message pops up. If the correct username and password are entered, the user is redirected to the registered group screen.



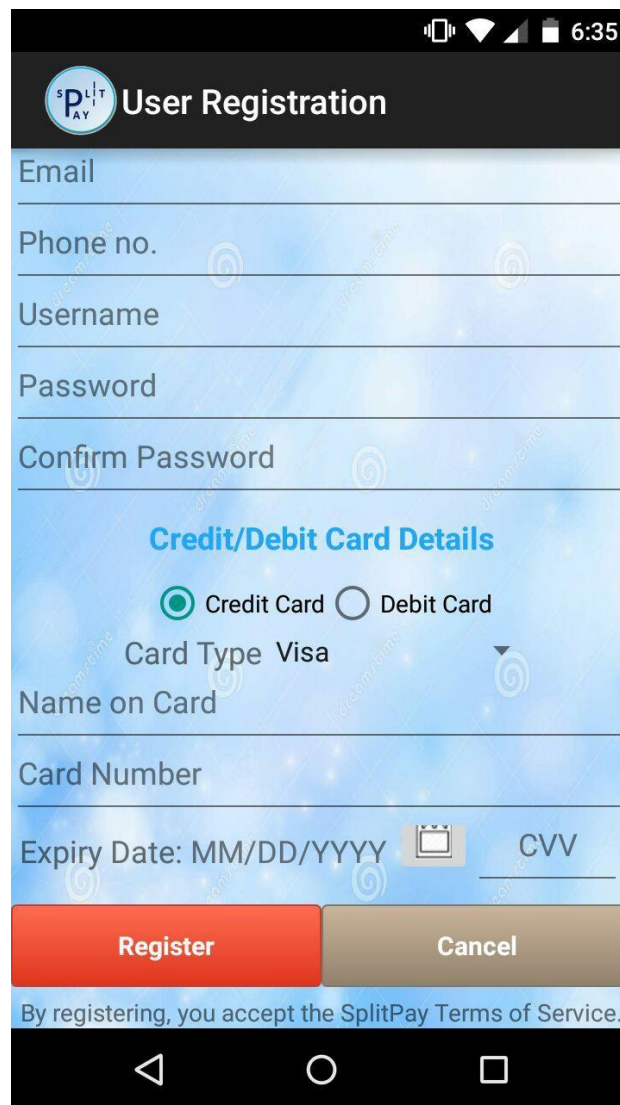
Snapshot 2: Login Page of SplitPay

SplitPay Registration Page

The registration screen allows users to create a new account for the application. It contains various fields like name, email, password and card details of the user. We are also validating each entry of the user by having some pre conditions for each entry. For example,

- Username should not be same as full name
- Phone number should be 10 digits
- Password should be at least 8 characters long
- Email should be in ****@***.com format
- Card number should be 16 digits long
- CVV should be 3 digits long

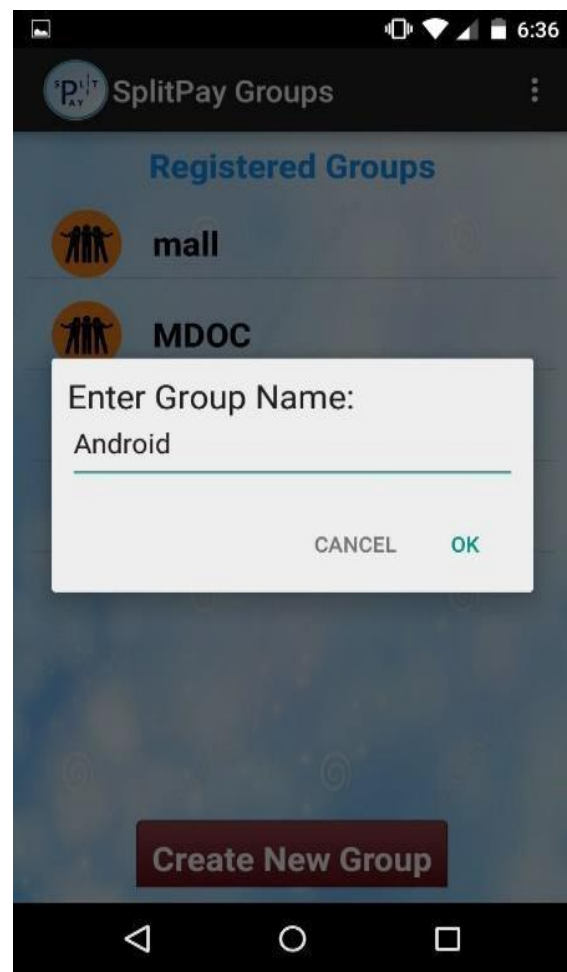
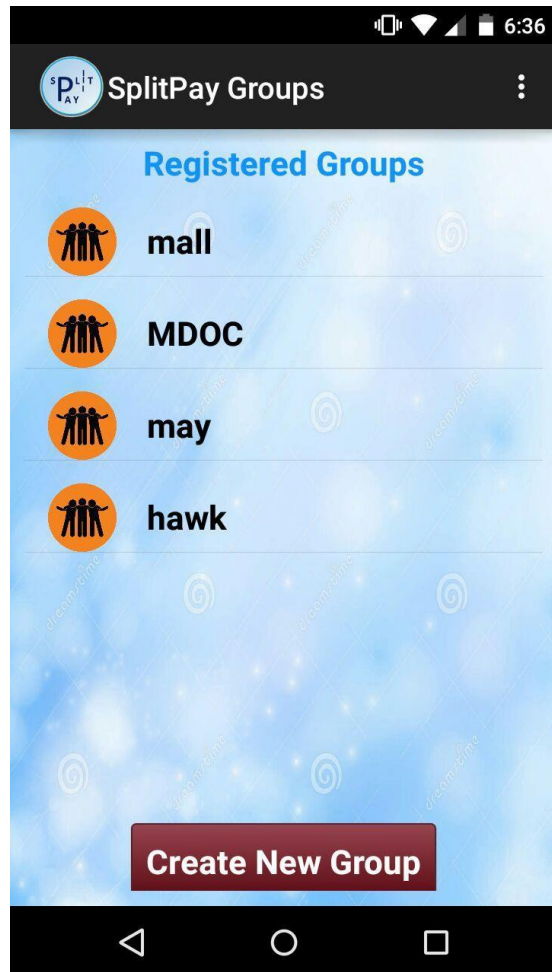
We have also created a date picker in order to select the expiry date. If the user does not fill a certain field or enters an incorrect entry, then an error alert is displayed next to the field. When the user clicks on the alert he can know what the error is.



Snapshot 3: New User Registration Page.

User's SplitPay Groups

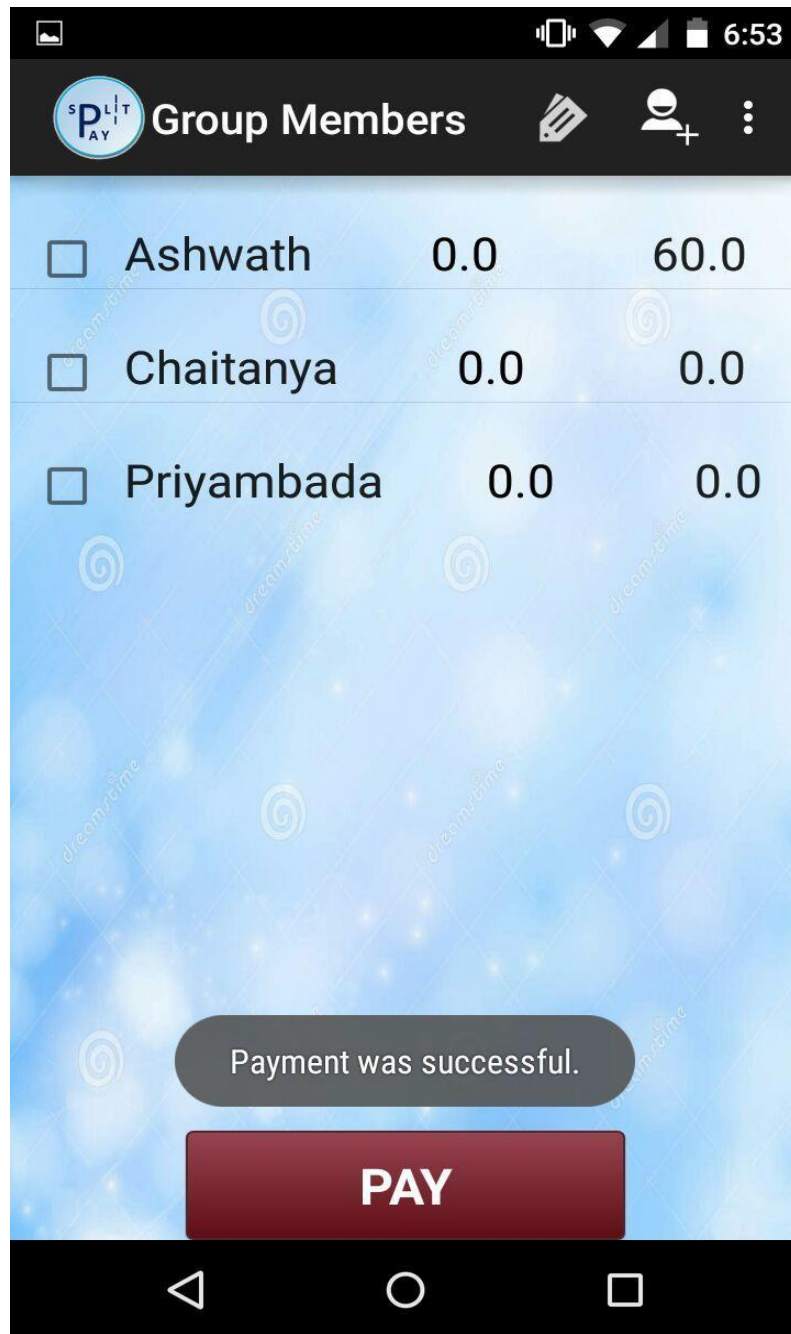
After User successfully logs in to the application he can see his groups (only groups created by him) and also has an option to create a new group. We have used listview in order to display the group names and a dialog box pops to enter the group name. When user clicks on the group he will be redirected to the add members screen.



Snapshot 4: Registered Groups and Dialog Box for creation of new group.

Group Members of SplitPay

After creating the new group, user will add members to this group. Now user can enter amount and purpose through the dialog box when the user clicks on the split button, the amount owed and amount paid for that item is calculated and saved in database for each member in the group. After this information is saved in database, the database is queried to get total amount owed and total amount paid information for each member in the group. UI is refreshed to show the updated information. The total amount owed is shown in red if it is greater than \$0.0, otherwise it is shown in black. When the Pay button is clicked the successful payment is done with a message

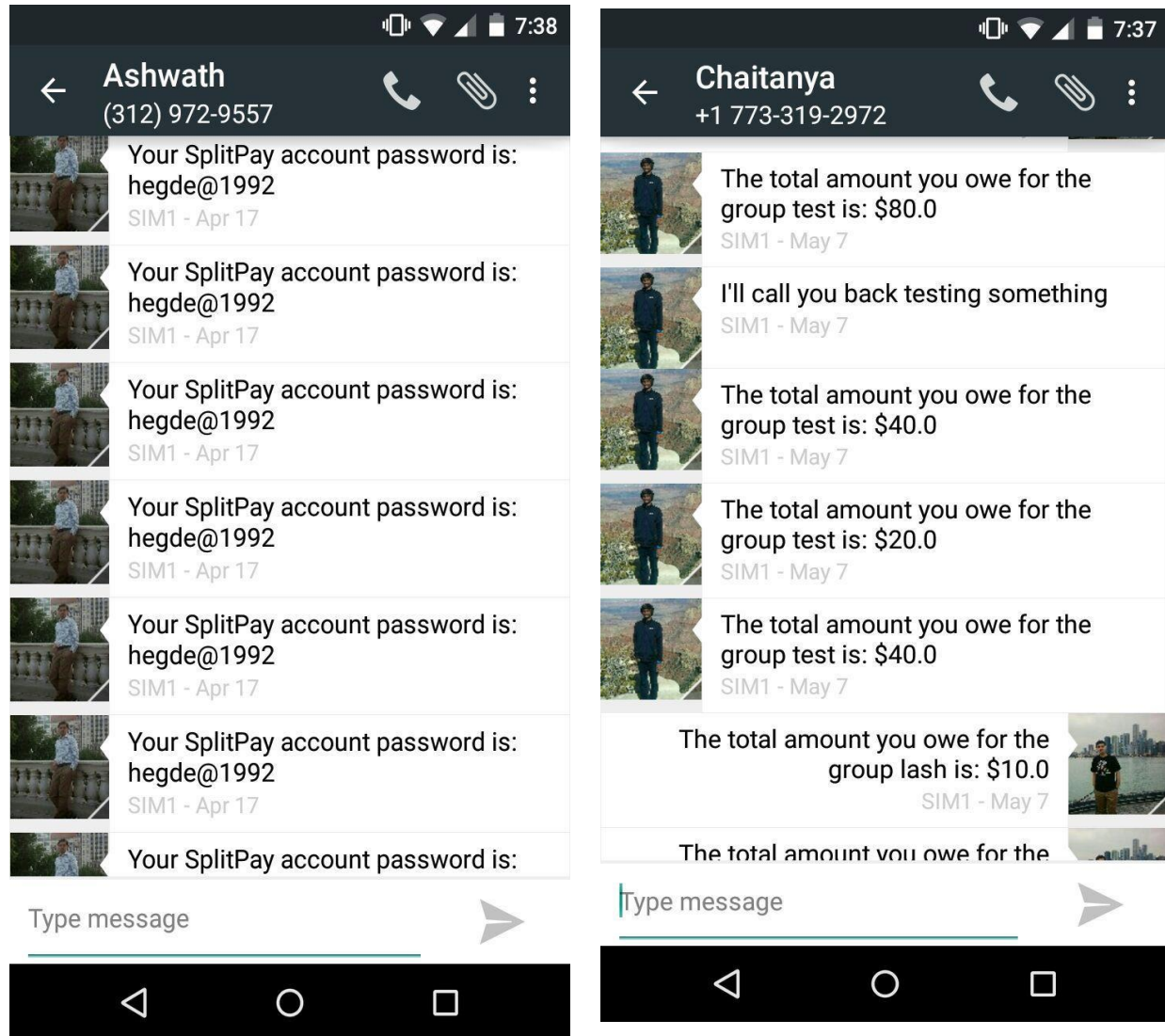


Snapshot 5: Payment Gateway Window.

SplitPay SMS Notifications

User can request for their password in case the user has forgotten, a sms notification will be sent to the user with his/her login password to the registered phone number given during the signup for the application.

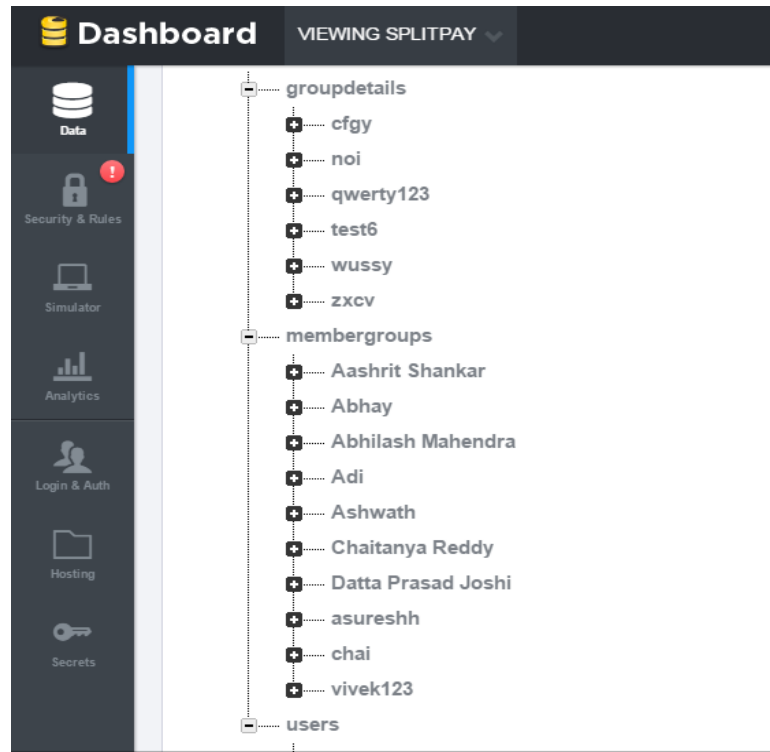
Members whose total amount owed is greater than \$0.0, are notified by sending a sms. The System sends a sms to all those members in the group who owe money. The sms shows the total amount that they owe. Each new sms is sent on a new thread so that UI does not freeze.



Snapshot 6: SMS Notification for Forgot Password and for the amount spent within the group.

SplitPay uses Firebase for Database services

We are using Firebase in order to store data related to user details, group names, member details and payments dynamically. By using Firebase we are able to store data in a centralized location which can be accessed by any users.



Snapshot 7: Windows of Firebase used for Database Service.