

## Payment Mobile add-on

**Overview:** The **Amount Splitter** is a mobile application designed to simplify the process of dividing expenses among a group of people. Whether you're out with friends, at a party, or on a trip, this app helps users easily split the total amount based on who should pay, ensuring a fair distribution of costs.

### Features that app include:

1. At first user should Sign In or Sign Up. If the person is REGISTERED one then gather the respective details of the person.
2. In Sign Up process the user is requested to enter username, email, mobile number, strong password and ask the permission to access camera and contacts. Where camera is used to do payments and contacts is used to request persons for payment.
3. In Sign In process the user is requested to enter mobile number or email and password. If the user is valid user then log in to app otherwise ask the person to retry based on the error while Signing In.
4. App interface should consist of 6 tabs. That are Payment, Request, Out of Contact, Contacts, Groups, Recent.

### **Detailed Info of Tabs:**

#### a. Payment Tab:

- => Always display **create payment** option at top.
- => By clicking **create payment** option an interface should open by asking Enter Total Payment and next the user should be able to select the RECIPIENTS from contacts, out of contacts databases or simply group from Groups Tab.
- => At bottom there should be an option as **Done** which confirms the list of RECIPIENTS.
- => By clicking the **Done** button QR codes should be generated with equal split amounts and that QR codes should send to respective selected persons.

- => Below **create payment** option the transactions should display as Pending(Orange in color) and Done(Green in color) payments along with request person name and amount if the person is in contact otherwise along with number and amount of the request person.
- => by clicking an option pending/done payment the details should be displayed.
- => if it is pending, the interface should consist of total amount that requested person entered to split along with split amount that RECIPIENT should pay and QR code(which is encoded to pay only split amount) to pay the amount. At bottom there should be **Payment** option by clicking it the RECIPIENT should get a request to use which payment app for the transaction, by respective app the payment should be done by using QR code. The amount should credit to Requested person bank account.

- => Pending payments should be at top/peek for 12 hours afterwards the transaction section should work as stack.

- => Where as Done payments should always work as stack.

#### b. Request Tab:

- => If user got a request it should consist of requested person number to accept or reject connection, save that response for future use as it is for 15 days.
- => And one more option if the user is requested to someone for connection it should display pending(orange in color) if recipient not accepted or rejected, accepted(green in color) and rejected(red in color)

=> If recipient accepted the connection the number should save in Out Of Contact database, display it at Out Of Contact tab and show in Request Tab. After user viewed the accepted notification in Request Tab erase the update from the tab. And if the user clicked the accepted one it should navigate to Out of Contact tab to start payments.

c. Out of Contact Tab:

=> Simply display the numbers which got access to start payments and not in contacts list. With + (plus) and tick symbols which are clickable.

=> +(plus) symbol indicates to add in groups before that save the contact.

=> tick symbol(multi selection) is for to share the payment request.

d. Contacts Tab:

=> Display the list of contacts with (+) and tick symbols. Where the symbols consist of same functionalities as mentioned in Out of Contact Tab. But + symbol functionality should directly add the number to group by skipping saving method because the number is already in contacts.

e. Groups Tab:

=> Which consist groups in which the user is there as a member.

=> Create group option is given to user. By clicking it contact list should display where the user can select multi numbers.

=> Every group member should have the access to create a payment option as mentioned in Payment Tab.

f. Recent Tab:

=> The functionality of these tab is to display the transactions of last 15 days in stack format.

**Required Databases:** For all tabs databases are required except Payment and Contacts Tabs.