Entity:

User {

name: 'User',

primaryKey: 'id',

properties: {

id: 'string',

name: 'string',

email: 'string',

password: 'string',

newLoginTime: 'int',

lastLoginTime: 'int',

}

Bill {

name: 'Bill',

primaryKey: 'id',

properties: {

id: 'string',

subject: 'string',

description: 'string',

paidBy: 'string',

totalAmount: 'int',

billDate: 'date',

}

BillOwedUsers {

name: 'BillOwedUsers',

properties: {

owedBy: 'string',

billTo: 'string',

amount: 'int',

paid: 'bool',

}

User Cases:

Login

Charge (Create lists, others owe you)

Add/Edit Bill

Bill (Get notifications, you own others)

PayBill

Bill page(alert): When a user logs in, the app will show alert for new bills added since previous login.

Charge page + AddBillPage + EditBillOwedUsers: App will show each bill and who owes who.

Charge page: App will show total balance of the logged in user consolidating all his/her bills. For example, if user X logs in, the summary page should say total balance = +100 or -50 etc considering all the bills in that username.

AddBillPage: A bill contains - subject/description, total price, date, user paying the bill, amount owed by every other person. All these options can be entered by the user when adding a bill. Feel free to autofill some values to simplify implementation.

User list can be hard coded. No registration needed. Create 5 or more users by default. (User1, User2, User3, User4, User5)

Only valid users can be added to the bill. (validation)

Default UI is fine. No need to add custom styling etc.

Users should see only those bills to which they are added.

Make a payment

User1 login

Situation 1: Go to a restautant, User1, User2, User3, User4, User5, User1 paid the bill 50 bucks

Lunch, House of Prime Rib, 50

Situation 2: Water bill, roommates, User1, User2, User1 paid the water bill 120 bucks

April Water Bill, Utilities, 120

User2 login:

got notification, red letters-next time login, it will turn black, display all my owed bills in Bill section

make a payment, a feature I added, after the payment, the row disappers from the Bill section

Situation 3: Gas bill, roommates, User1, User2, User1 paid the gas bill 200 bucks

April Gas Bill, Utilities, 200

Change User1 amount, my mom come to visit me and sleep here for two nights, change it to 80

Add User3 into the bill, Delete User, disappear from the UsersOwnedBill section

Go back to User 1, he gets the bill alert

User3 login:

got notification, red letters-next time login, it will turn black

make a payment

index.ios.js initAdmin(): { createAdminUser } render: { scene: 'login' }

scene:'login'-- LoginPage.js render: { \_onLoginPress: if(admin@oracle.com), scene:'admin'; else, scene: 'main' }

Alert: when user is empty, Cannot find user

scene:'admin'-- AdminPage.js render: { \_onClear: deleteAll(), initUsers() }

Alert: Reset success

scene:'main'-- TabPage.js render: { TabBar: SummaryPage; TabBar: OwedBillPage }

SummaryPage.js render: { ListView: \_genData: paidBy{user}, \_renderRow: \_onRowPress - scene: 'addBill' }

scene: 'addBill'--AddBillPage.js render: { Subject, Description, Total Amount, button:\_showOwedUsers() - scene: 'editOwedUsers', button:Save }

Alert: when subject is empty, Failed to add user,

when totalAmount is less than 0, Must input positive number,

when totalAmount is less than peopleOwedAmount, Must greater than total amount people owed

scene: 'editOwedUsers'--EditBillOwedUsers.js render: { User, Owed Amount, button:Add User to Bill, ListView:\_renderRow - scene: 'editOwedUser', button:Save }

Alert: when item has been paid, You can not edit this, this item has been paid

when invalid user input, Failed to find user name as {user}

when add yourself, Failed to add user, you cannot add yourself into the bill

when totalOwed > totalAmount, Failed to add user, you entered a too large amount

when duplicate added, Failed to add user, You have already added user into your bill

scene: 'editOwedUser'--EditBillOwedUser.js render: { User, Owed Amount, button: Delete User, button: Save }

Alert: when delete user, Are you sure you want to delete user

when update amount, Update success

OwedBillPage.js render: { ListView: Owed Bills, \_renderRow - Owed Amount {amount} Make a pay, \_onRowPress - scene : 'payBill' }

Alert: when you already paid, Operation failed, You already paid it

scene : 'payBill'--PayBillPage.js render: { Pay bill }

Alert: when you want to pay bill, Are you sure you want to pay?