Group

PK	Group ID
	Group Name

belongs to — can have

Member

PK	MemberID
	First_name
	Last_Name
	payment method
	What_member_payed_for
	How_a_member_needs_to_pay
	How_much_a_member_needs_to_recieve
	difference_between_owed_and_recieved

member_pay_notification

PK	member_pay_notificationID
	notification_message

member_debt

PK	member_debtID
FK	MemberID
FK	debt_id

debts

PK	debt_id
	debt_name
	debt_amount

Member_payment_recieve

FK	MemberID
FK	Payment_recieve_ID

Member_payment_send

FK	MemberID
FK	Payment_send_ID

Payment_recieve

PK	Payment_recieve_ID
	Payment_Name
	Payment_type

Payment_send

PK	Payment_send_ID
	Payment_Name
	Payment_Type

receive_notification

PK	receiving_notificationID
	receive_message

send_notification

PK	send_notificationID
	send_message

Here is the general idea for this ER diagram. Our application is centered around making groups, adding group members, and each member eithe recieving a payment or making a payment.

1. A group that is created is made up of a unique group ID. Each group has a group name.
2. A group is made up of members. A member can belong to one and only one group but a group may contain many members. Each member has a unique ID, first name, last name, field for what they payed for (if anything), how much a member needs to pay, how much a member needs to receive, and the difference between owed amount and recieved amount, and a bank account number (for making payments)
3. each member who pays will send a notification to other group members. each notification has a unique id and message
4. each member can have zero or many debts. each debt has a unique id, debt name, and debt amount.
5. debts can be owed by multiple group members
6. Each member can **send** multiple payments. Each payment sent has a unique payment ID, payment name, and a payment type (venmo, cash app, etc). A payment can also be sent by multiple group members.
7. Each member can **recieve** multiple payments. Each payment recieved has a unique payment ID, payment name, and a payment type (venmo, cash app, etc). A payment can also be recieved from multiple group members
8. Each payment sent has a unique ID and a notifcation message
9. Each payment received has a unique ID and a notifcation message