

# Who Owes Who

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Keeping track of balances and debts between friends can be confusing and frustrating. Debts between friends can accumulate quickly and, if the debts are not paid back immediately, it can be difficult to keep track of costs, what has already been paid back, and what the current balance between two friends are. While Venmo is a prevalent option of paying back friends, not everyone has Venmo, and Venmo doesn't keep track of outstanding debts between people. Upon user research, it was discovered that many wished for a tool that easily kept track of debts between friends and told them who owed what amount of money. Who Owes Who is a website application that creates transparency regarding the outstanding debts between two people, and calculates the overall balance between them. Once two users become friends on the application, they are able to make debt requests to one another, specifying the amount owed and the reason for the debt. When User 1 sends User 2 a debt request, User 2 must accept the request for the debt to be included in the balance between User 1 and User 2. To prevent users from maliciously abusing the application, User 2 could reject the request from User 1, or create a revision (also known as a dispute) to make proposed changes to the debt. User 1 must accept the revision for the updated debt request to be approved and included in the balance between User 1 and User 2. If there is a balance between User 1 and User 2, they are able to mark the current balance between them as settled as soon as the debtee pays back the debtor.

The application's backend was written in TypeScript, the frontend was written in Vue.js, and testing was written in Jest and Cypress.

# Keeping track of balances is hard...




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 **#CARLY  
Carly Li**  
carly@gmail.com

you are owed **\$16.00**

|          | All   | Requests   | Debts | Disputes | Resolved  |
|----------|---|--|-------|----------|-----------|
| MAY 12TH |  | <b>DISPUTE</b><br><b>You revised Jakes request</b><br>Groceries  |       |          | \$33.00 → |
| MAY 12TH |  | <b>DEBT</b><br><b>Jake owes you</b><br>Breakfast burrito         |       |          | \$16.00 → |
| MAY 12TH |  | <b>REQUEST</b><br><b>You charged Camila</b><br>Coffee and scones |       |          | \$10.00 → |

 **FRIEND**  
**Jake**  
@jake      you owe \$16.00  
[New Request](#)

 **FRIEND**  
**Camila**  
@camila      settled debt  
[New Request](#)

 **FRIEND**  
**Tina**  
@tina      settled debt  
[New Request](#)