Bill Splitter | Product Requirements Document

Goal

Automate the task of splitting a group bill by item and sending charge requests.

Door Dash Receipt

Simon Fong's Order

1	Pad Kee Mao Nuer	$14.00
1	Pad See-ew Moo	$19.00
1	Pad See-ew Moo	$14.00
1	Pad See-ew Moo	$14.00
1	Pad See-ew Moo	$14.00
1	Pad See-ew Moo	$14.00
1	Mango with Sticky Rice	$7.50
1	Brown Rice	$3.00
3	Thai Ice Tea	$12.00

Subtotal	$111.50
Regulatory Response Fee	$1.00
Tax	$9.62
Delivery	$0.00
Service fee	$5.58
Dasher tip	$20.79

Total	**$148.49**

Features

- Automated item and price extraction from a Doordash PDF
- Item and price matching
- People creation and ability to assign items to people
- Total over subtotal multiplier calculated and applied to items
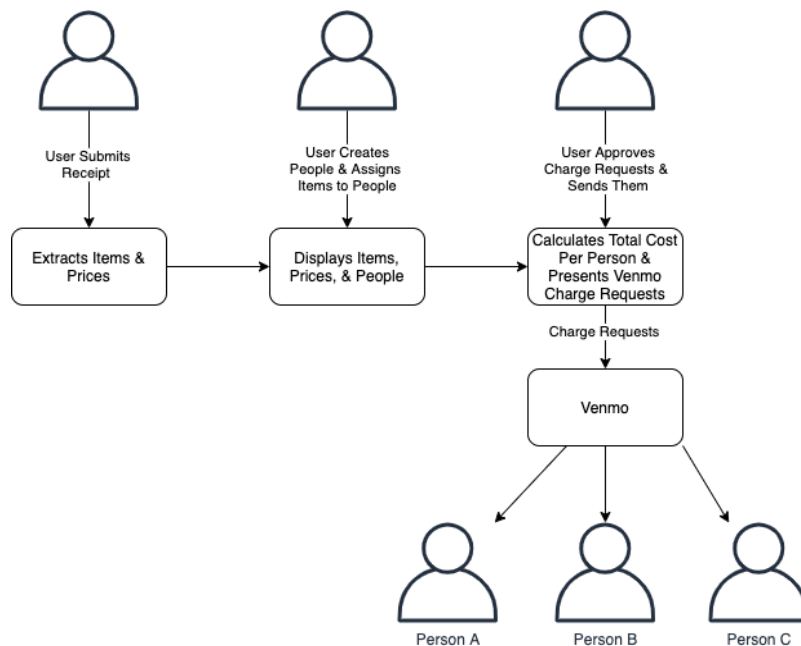- One-click Venmo requests with price estimates

Non Features

Features that would still be good, but should not be included in the MVP to start with.
- Splitting an item across multiple people
- UI, a functional bootstrap button is acceptable, or even a CLI

UX Flow & Design Notes

1. User submits DoorDash receipt.
2. Backend scans receipt for item names, item prices, subtotal, and final total.
3. Scan results are presented to the user and the user creates people and assigns items to each person.
4. Final totals for each person are calculated.
5. Venmo charge requests are generated and ready to be sent on a per-person basis.

User Flow Diagram

System & Environment Requirements

- Must run on at least a CLI environment with Python 3+

Stretch

- Must run on Chrome 94+ through a web interface

Assumptions, Constraints & Dependencies

Assumptions

- Users will have access to a CLI environment with Python 3+ installed
- Users will be able to install the necessary dependencies
- Users will understand how to download the PDF Doordash receipt from their web UI
- There is some Venmo API that we can use whether that is a true public one or reverse-engineering the client.

Constraints

- Cannot cost more than $10/month to run excluding the cost to host and run the application

Dependencies

- Venmo API or some peer-to-peer payment method