

# Notes

---

- If we want to add actual email, we can use SendGrid:
  - Account: <http://sendgrid.com/developers> (<http://sendgrid.com/developers>)
  - Sample: <https://github.com/tbarn/basicEmail> (<https://github.com/tbarn/basicEmail>)
- If we want actual \$, we can use:
  - Stripe: <https://stripe.com/ca> (<https://stripe.com/ca>)
  - Braintree: <https://www.braintreepayments.com/developers> (<https://www.braintreepayments.com/developers>)
  - PayPal: <https://developer.paypal.com/docs/api/> (<https://developer.paypal.com/docs/api/>)
- Need to check for errors and produce messages
- I recommend using bootstrap for front-end and modals to flash error messages

# Clerk

---

- Add new borrower
  1. Get information
- Checkout items borrowed by someone
  1. Provide card number
  2. Provide call numbers
  3. Check if account is valid
    - which involves...
  4. Check if items are available
  5. Create the borrowing records for each
  6. Print a list of items and due dates
- Process a return
  1. Get catalogue number (call number?)
  2. Determine borrower
  3. Record it is in
    - I feel like this should be the last step in this process...
  4. If overdue
    - Fine the borrower
  5. If a hold request exists
    - Put item on hold
    - Email borrower who requested
- Report: overdue items
  1. Display a list of overdue items and their borrowers
  2. Can email any or all of them

# Borrower

---

- Search for books
  1. Enter term(s):
    - title(s?)
    - author(s)
    - subject(s)
  2. Return list of books and copies in and out
- Place hold request
  1. Search
  2. If out
    - Click button to hold
- Check account
  1. Display items currently borrowed
  2. Display hold requests placed
  3. Display outstanding fines
- Pay a fine
  1. Enter in \$ to pay
  2. Enter in CC #
  3. Pay

# Librarian

---

- Add new book or copy of book
  1. Get information
  2. If exists
    - Add a copy
    - Should imitate the search feature?
- Report: checked out items
  1. Display a list of items that are checked out, out date, due date
  2. Flag items that are overdue
    - Is this a visual thing or system thing that sets a status?
  3. Order by call number
  4. Filter by subject
- Report: most popular items in a year
  1. Enter year
  2. Enter number n
  3. Display a list of items that were borrowed
    - Ordered by borrowed count
    - Filtered by year
    - Limited by n

# Deliverables

- 
- A cover page with team info
  - A brief introduction to the system, a brief user manual, and a list of assumptions made during implementation
  - The file with the code for the creation of the tables
  - The files with the code for the operations, the transactions, and interface