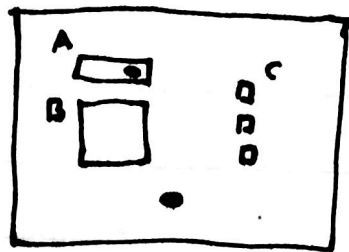


# Design doc

## Frontend

### Component A: Html

a simple web site with a few forms (A, B, C) see below and 2 Submit buttons



### Component B: Card input

when the lower Submit button is pressed, Pass the Text from form B to component D, also Send the state of form C. if first submit has not been clicked, ignore form A

### Component C: url input

Take the url provided by form A and determine whether it is valid. if it is, go to the url and Paste the decklist to form B with proper formatting

Component D: Construct hypothetical cart  
Given a decklist, 'hypothetical  
cart' refers to an array of  
tuples specifying

- what card is to be purchased
- what website the card is to  
be bought from

The hypothetical cart is created  
by matching the lowest prices  
in the database (Component E)  
with the set of cards that  
provide the most efficient shipping

Component E: database

A database of the 900 most  
played cards (100 standard-all, 300  
modern-all, 500 commander - ISCEALD)

relation is as follows:

Card (cardkingdom-price, tcgplayer-price,  
-price, tcg-bundle?)

where cardkingdom-price, tcgplayer-price,  
and -price are of type INT  
~~representing price~~ while tcg-bundle?  
is of type boolean.

At 6am and 6pm, component F will  
aven the various sites and update the db

## Component F: Web Scrapping

Given a card name, this script will look at each of the 3 distributors websites and return a tuple whose contents are (A, B, C, D)

where

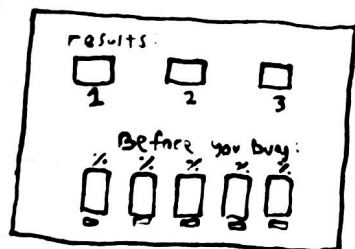
A is the Price of the card on cardkingdom

B is the Price of the card on storecitygamer

C is the Price of the card on TcgPlaza

D is a bool indicating whether the card can be bundled using Tcg Direct

## Component G: checkout screen



if the price has fallen recently;  
text = 'add another'  
color = green  
if price has risen;  
text = 'remove'  
color = red

The checkout screen presents the user with the top three cheapest permutations from the given vendors. It also indicates whether promotional codes for the content creators specified in component A exist for this vendor. Clicking on the option will send you to the checkout of that vendor with your decklist in cart.

A 'before you buy' section informs users of the top 5 cards in their list that have seen the most recent price fluctuations. Images are displayed

## Component H

Once the checkout method has been selected, redirect the user to the respective distributor's checkout page. A ~~main~~ StratusWalk bot will have already constructed the cart so the user will not provide StratusWalk with any sensitive information.

