Stuff to do first-

React.js (Learn react cause u can make website first and then translate to app)

Important Tools-

VSCO (Visual Studio) or Atom for coding

Jango (Learn in Mozilla or the official website; programming language for back-end)

PostGreDD (Programming database)

VENV (Always write python in this virtual enviroment)

Docker (Allows to download packages for specific docker instead of general OS)

Main Idea-

* Local supermarkets such as Selectos, Econo, Mr. Special, etc. release a shopper each week. A person would have to check every individual shopper for the items he or she would want to buy and compare the price in each store.
* Therefore, there must exist a middle point between the store and the consumer to facilitate, well, consuming.
* If this middle point takes as an input the consumer’s shopping list and cross references the items on it to the updated shopper of the various stores, it can output the best store to purchasing those items considering the amount of money saved.
* There could also be a feature where you import the average gallons of gasoline your car uses per mile to add the money you used to drive to the store to the overall price of your purchase.
* The app would also detect the supermarkets near you and indicate in which one you will get the best price.
* This would require and constant updating of the shoppers **every week**.
* There are ways this hard task can be avoided such as:
* The first person to publish the data of the newest shopper in that week to our database can receive $2-$5 off their next purchase
* Programming a general algorithm that will be able to read the shopper pdf’s; however, this assumes that the pdf’s are in such a format to be readable.
* Another way (however extreme) is to try to find the repeated organization of items in the shopper and program an image recognition algorithm to read off the prices. This would require of course that the format in which the shoppers are printed doesn’t change. If the object to be sold, price, and name are always in the **exact** position of the pdf this can be accomplished fairly “easily” (writing this algorithm would be complicated; however, its benefits are substantial).
* The project would be divided into phases:
  + Using three different shoppers, calculate the total price of a shopping list of randomly selected items in each store. If the money saved is worth the time of writing this app then go to step number 2.

**Prerequisites**

There are a few things you should know in advance before you start playing around with React. If you've never used JavaScript or the DOM at all before, for example, I would get more familiar with those before trying to tackle React.

Here are what I consider to be React prerequisites.

* Basic familiarity with [HTML & CSS](https://internetingishard.com/).
* Basic knowledge of [JavaScript](https://www.digitalocean.com/community/tutorial_series/how-to-code-in-javascript) and programming.
* Basic understanding of [the DOM](https://www.taniarascia.com/introduction-to-the-dom/).
* Familiarity with [ES6 syntax and features](https://www.taniarascia.com/es6-syntax-and-feature-overview/).
* [Node.js and npm](https://www.taniarascia.com/how-to-install-and-use-node-js-and-npm-mac-and-windows/) installed globally.