Project Features:

- Title: Add clothes
    - Ability to add items of clothing to database
    - Requirements:
        - Functional requirements:
            - Allow user to select material of clothing
            - User can give clothing a name
                - “Red shirt”
            - User can add a picture of the item of clothing
            - Ability to give the item a date of purchase
            - Ability to select what types of weather the item can be worn for
            - Pre-condition: creation of new user allows user to fill in form
            - Basic path: user fills in form with clothing details
            - Post-condition: user can now see their item of clothing along with its details in their wardrobe
        - Non-functional requirements
            - All clothes should be added to a table specific to user
            - All details should be held in one row for each piece of clothing
            - Table holding clothing details should be private to specific user
            - Give user a list of options to select from material
                - i.e cotton, polyester, denim, etc.
            - Ability to select date of purchase from calendar view
            - Give user list of weather types to select from
                - i.e hot, raining, snowing, sunny, etc.
- Title: Dirty or clean
    - Mark clothes clean or dirty
        - Non-functional Requirements:
            - User must be able to view if a piece of clothing is dirty or clean
            - User must be able to change the status of a piece of clothing easily
            - User must be able to view
        - Functional Requirements:
            - Ability to view the status of the piece of clothing (already clean or already dirty)
            - Ability to not mark the same piece of clothing dirty twice or clean twice
            - Ability to mark all clothes clean after a wash
            - Pre-condition: has a table of all the clothes marked dirty or clean
            - Basic Path: user chooses an option of dirty or clean and based on the input, the status is changed
            - Trigger: Clothes have been worn and are dirty or user has washed clothes

- Post-condition: the piece of clothing is correctly marked dirty or clean

- Title: Washing instructions
    - Get laundry instructions based off clothing item
        - Functional:
            - Lets users choose an article of clothing and then view the specific wash instruction
            - List instructions from most important to least important.
            - inform users how skipping a specific instruction will affect clothing item Example: “skipping low heat instruction may result in shrinking of article of clothing”
            - Pre-condition: Has list of dirty clothes that the user has and the instructions for that clothing item
            - Basic-Path: Gives list of clothes that have same or similar wash instructions
            - Post-condition- Lets you choose x amount of clothes to wash together and gives you warnings if you shouldn't wash two articles of clothing together.
            - Trigger : user wants to do a load of laundry.
        - Non-functional:
            - User can’t edit list of suggested clothing to wash together
            - Developer will sort liked clothes together and use conditions to find ten best articles to wash with selected article
            - Groups dirty clothes by similar wash instructions
    -

Title: Sort

- Sort clothes by either clean or dirty, by washing instructions, weather and by recently purchased
    - Functional:
        - Shows the user which clothes are clean and dirty, as well as the method of washing that article of clothing, according to which outfits are comfortable for the weather of that day and by the date it is bought so your most recently bought clothes are towards the top of the list
        - Precondition: The app has access to all the photos of the clothes uploaded. The app stores all the clothing into empty tables of the above parameters.
        - Basic Path:Offers suggestions of that clothes would be good according to the above parameters.
        - Postcondition: x amount of outfits chosen for the user according to the above parameters.

            - Trigger: User wants an outfit for that day
        - Non-functional:
            - The user cant choose Which clothing article is good for the weather
            - The user cant choose The method of washing each article of clothing
            - The user cant choose which clothes are added to the table of available clothes that day
            - The developer will sort the clothes into the table according to the above parameters

- Title: Weather
    - Selects appropriate clothes according to current weather
        - Functional requirements:
            - Precondition: The app has access to a GPS that tracks location and weather
            - Basic Path: Has access to wardrobe of added clothes. Offers suggestions based on temperature and weather
            - Postcondition: 3 outfits suggested based on current weather
            - Trigger: User checks on suggested outfits for a given area.
            - Alternative Paths: None
        - Nonfunctional requirements:
            - Tracks outfits if chosen and marks them as dirty
            - Matches clothes from wardrobe to create outfits displayed to user
            - Checks and displays weather for a given location

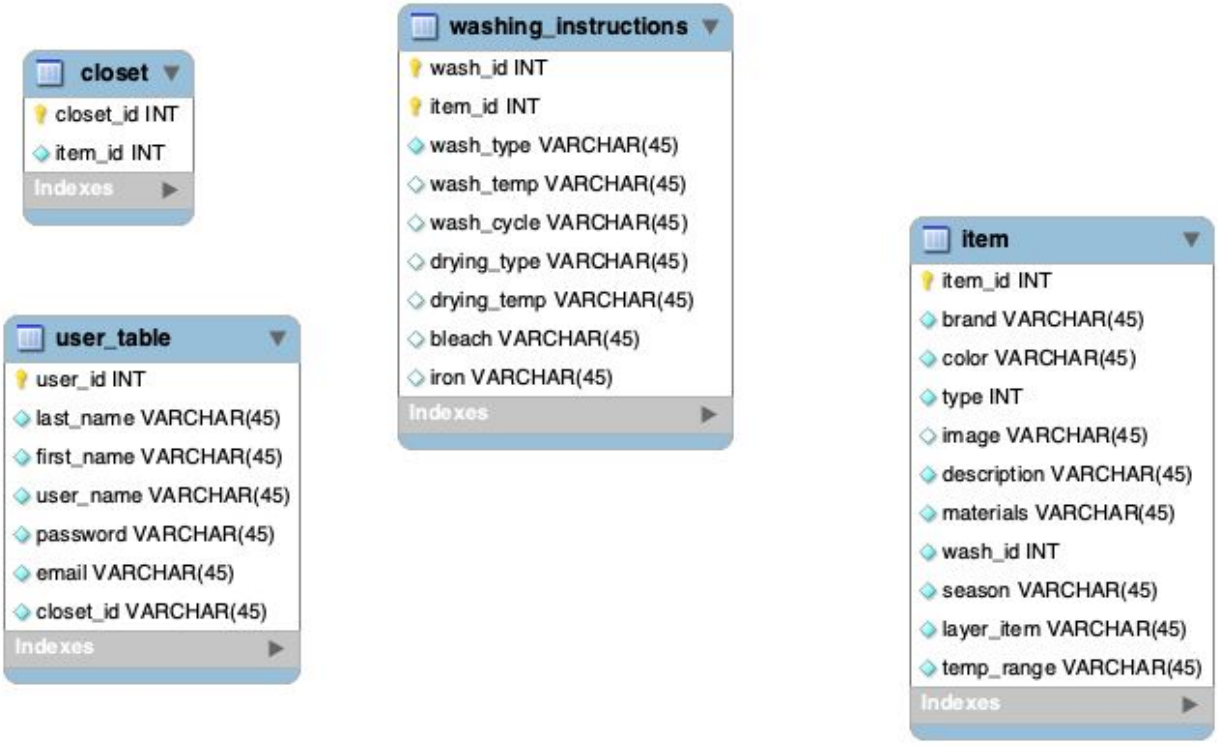
- Title: Organize by buy date
    - Sorts your wardrobe by the close you bought most recently
        - Functional:
            - There are at least one clothes' data in user's wardrobe.
            - Shows users a list which ordered by the date when they bought the clothes.
            - Could rank from newest to oldest or from oldest to newest.
            - When user wants to separately wash their new clothes and old clothes.
            - None
        - Non-Functional:
            - Checks the date when every clothes was bought.
            - Asks user what's the order they want to rank their clothes (from newest to oldest or from oldest to newest).

- Ranks clothes by the order.

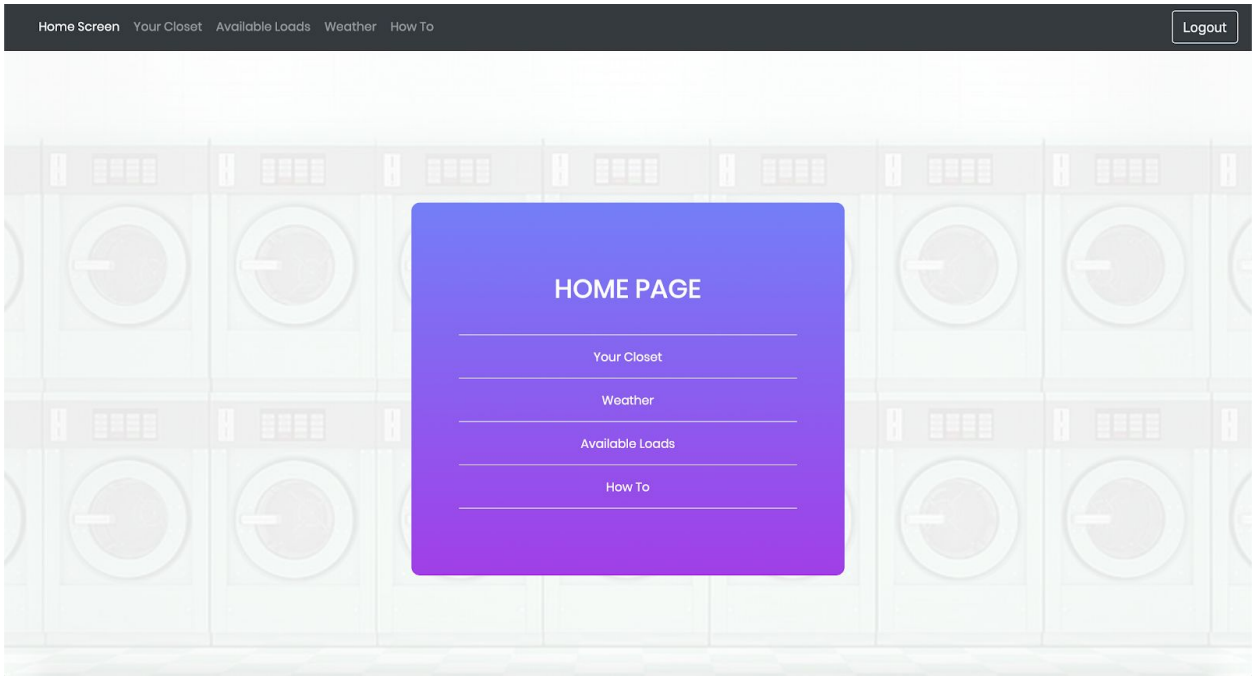
Web Service Design

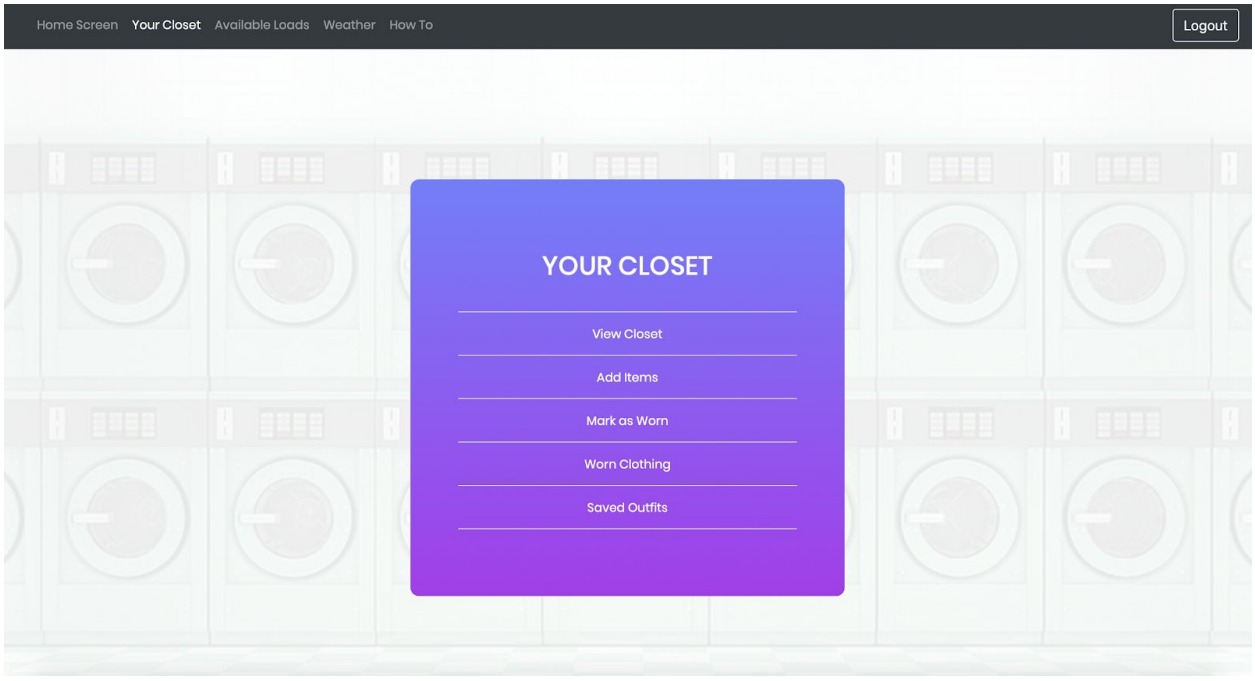
We are using one API to present the weather to the user. This will be able to help the user decide what kind of clothing they should wear for that day. The API we are using is called open weather and can be found at https://openweathermap.org/api. We will be pulling data such as location, temperature, maximum temperature, and minimum temperature.

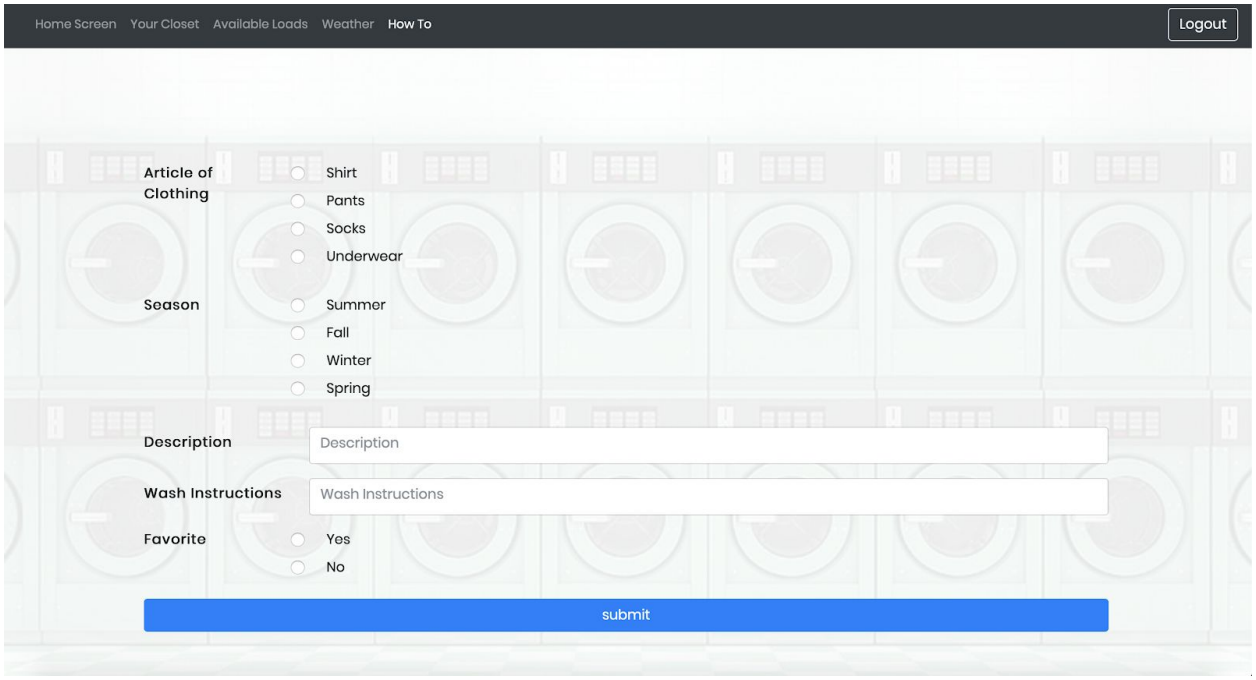
Database:



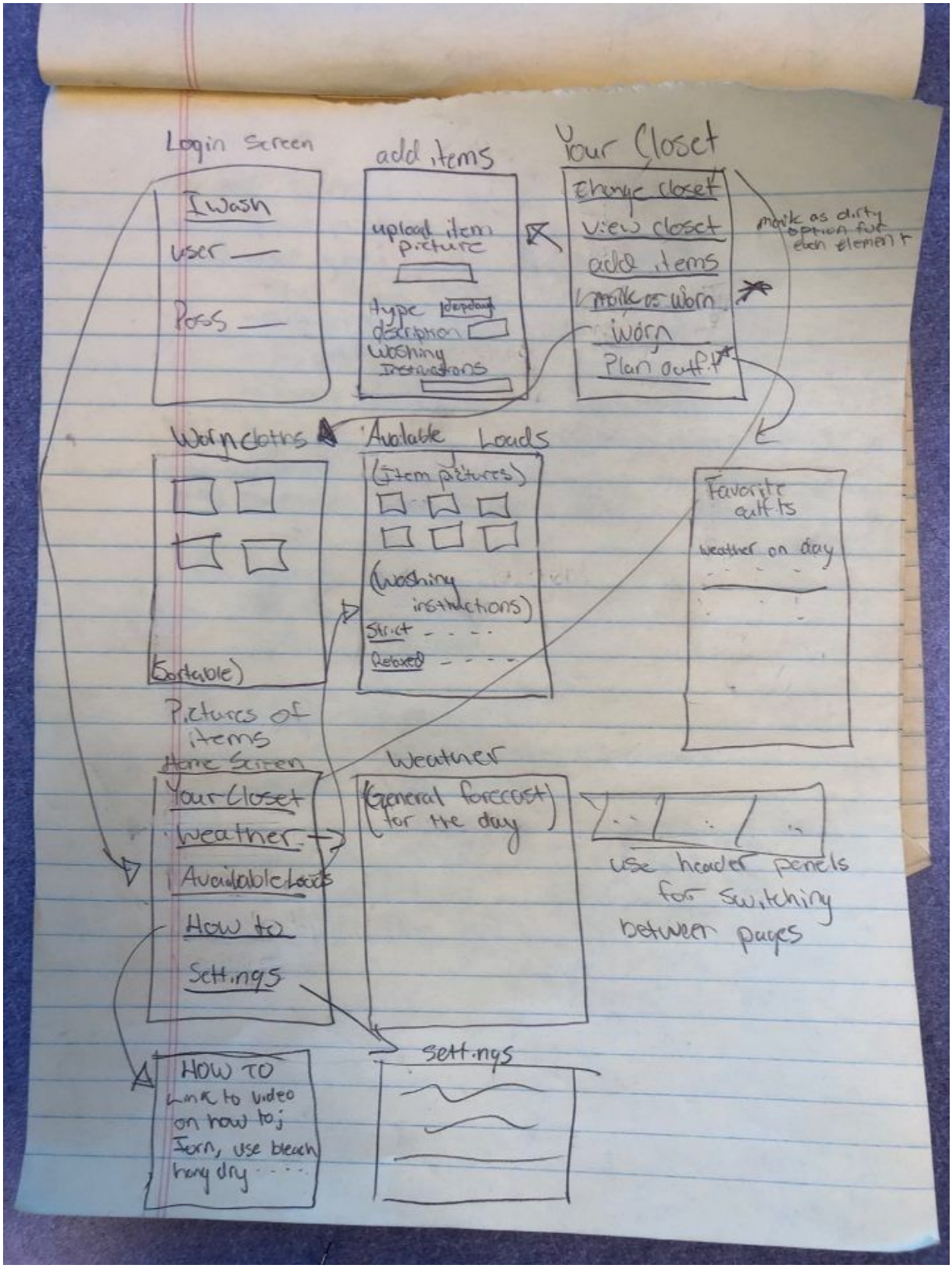
Front End design:


Home Screen
Your Closet
Available Loads
Weather
How To
Logout
HOME PAGE
Your Closet
Weather
Available Loads
How To


Home Screen
Your Closet
Available Loads
Weather
How To
Logout
YOUR CLOSET
View Closet
Add Items
Mark as Worn
Worn Clothing
Saved Outfits



Architecture Diagram:


Login Screen
I Wash
user
Pass
add items
upload item picture
type
description
Washing Instructions
Your Closet
Change closet
View closet
add items
mark as worn
worn
Plan outfit
mark as dirty option for each element
Work clothes
Available Loads
(Item pictures)
(Washing instructions)
Strict
Relaxed
Favorite outfits
weather on day
Sortable)
Pictures of items
Home Screen
Your Closet
Weather
Available Loads
How to
Settings
Weather
(General forecast) for the day
use header panels for switching between pages
HOW TO
Link to video on how to; Iron, use bleach hang dry
Settings