JS-A3#2

Task 1

Watch the lesson video carefully twice (at least). Then answer the following or write the code as discussed in the video for

a. How to use a text field and get and set different attributes like value, placeholder, maxLength, readOnly and disabled.

b. How to use a dropdown and get and set different attributes like value, disabled and selected.

c. Making a dropdown of employees using map

d. Make a form to

   i. Get the name, age and course (dropdown)

   ii. Show the entered details

   iii. Edit the entered details

e. Given the names and marks of students in Maths and Computers and their coding preference

   i. Show the data in a table along with the button New Student

   ii. Create and show the form to take the details of the new student. On submit, show the updated table

   iii. Also, add the functionality to edit the details of a student. Name should not be editable. The other values should be pre-filled with the code dropdown also showing the correct earlier value.

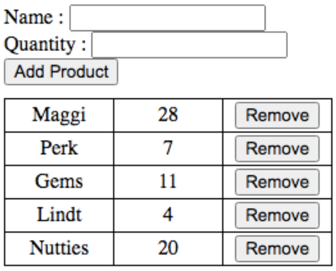
f. Explain Input text and some of its commonly used attributes.

g. Explain select and some of its commonly used attributes.

h. Explain option nd some of its commonly used attributes.

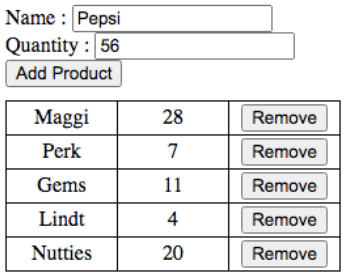
Task 2.1

Given an array of JSONs, present them as seen in the screenshots below.
Add Product adds the product to the table.



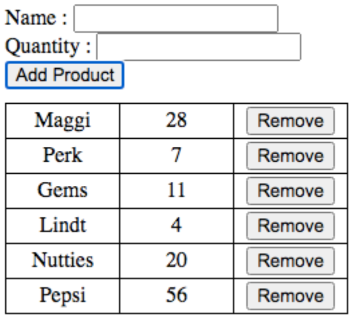
Name :
Quantity :

Maggi	28	Remove
Perk	7	Remove
Gems	11	Remove
Lindt	4	Remove
Nutties	20	Remove



Name : Pepsi
Quantity : 56

Maggi	28	Remove
Perk	7	Remove
Gems	11	Remove
Lindt	4	Remove
Nutties	20	Remove



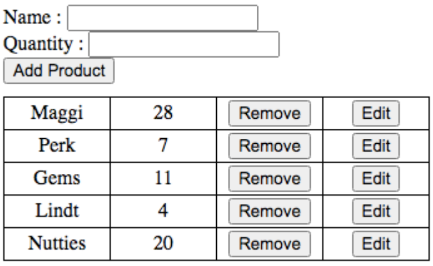
Name :
Quantity :

Maggi	28	Remove
Perk	7	Remove
Gems	11	Remove
Lindt	4	Remove
Nutties	20	Remove
Pepsi	56	Remove

JS-A3#2

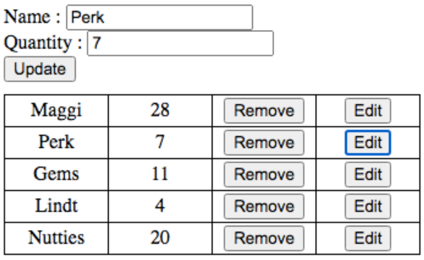
Task 2.2

Add edit also to the table. Clicking on edit, shows the fields pre-populated and the button showing Update. Note that the name is readOnly.



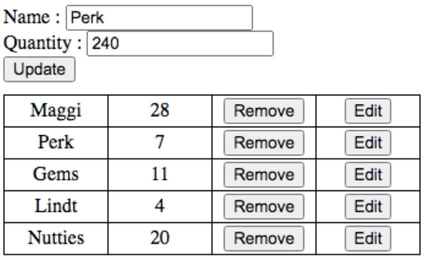
Name :
Quantity :

Maggi	28	Remove	Edit
Perk	7	Remove	Edit
Gems	11	Remove	Edit
Lindt	4	Remove	Edit
Nutties	20	Remove	Edit



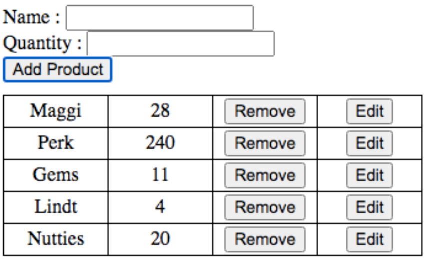
Name : Perk
Quantity : 7

Maggi	28	Remove	Edit
Perk	7	Remove	Edit
Gems	11	Remove	Edit
Lindt	4	Remove	Edit
Nutties	20	Remove	Edit



Name : Perk
Quantity : 240

Maggi	28	Remove	Edit
Perk	7	Remove	Edit
Gems	11	Remove	Edit
Lindt	4	Remove	Edit
Nutties	20	Remove	Edit

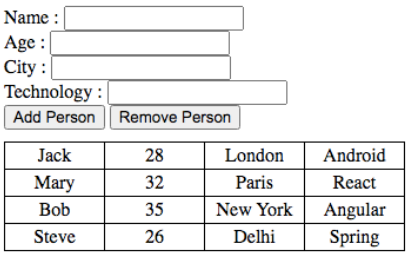


Name :
Quantity :

Maggi	28	Remove	Edit
Perk	240	Remove	Edit
Gems	11	Remove	Edit
Lindt	4	Remove	Edit
Nutties	20	Remove	Edit

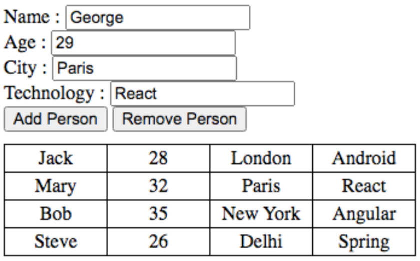
Task 3

Given an array of JSON, show the form and the data in a table as shown below. Add Person adds the new person to the array and shows it in the table. If a person with the name already exists, it shows an alert.



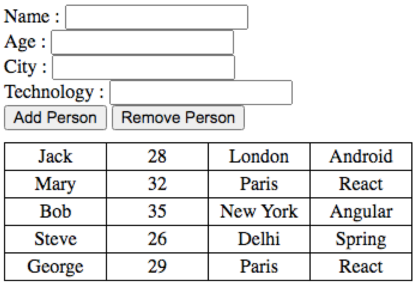
Name :
Age :
City :
Technology :

Jack	28	London	Android
Mary	32	Paris	React
Bob	35	New York	Angular
Steve	26	Delhi	Spring



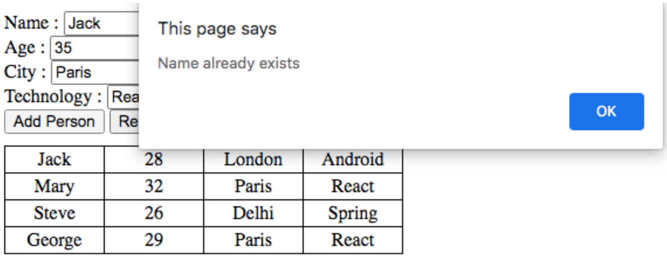
Name : George
Age : 29
City : Paris
Technology : React

Jack	28	London	Android
Mary	32	Paris	React
Bob	35	New York	Angular
Steve	26	Delhi	Spring



Name :
Age :
City :
Technology :

Jack	28	London	Android
Mary	32	Paris	React
Bob	35	New York	Angular
Steve	26	Delhi	Spring
George	29	Paris	React



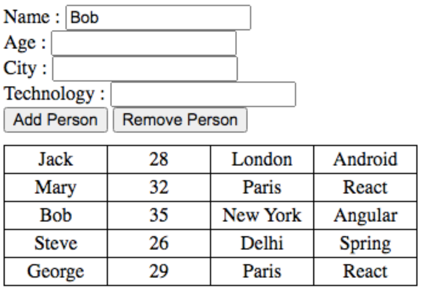
Name : Jack
Age : 35
City : Paris
Technology : Rea

This page says

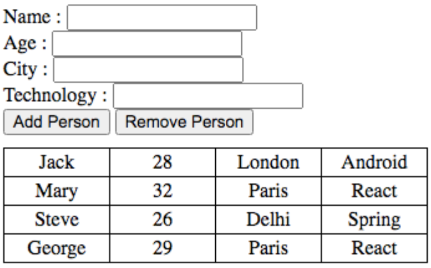
Name already exists

Jack	28	London	Android
Mary	32	Paris	React
Steve	26	Delhi	Spring
George	29	Paris	React

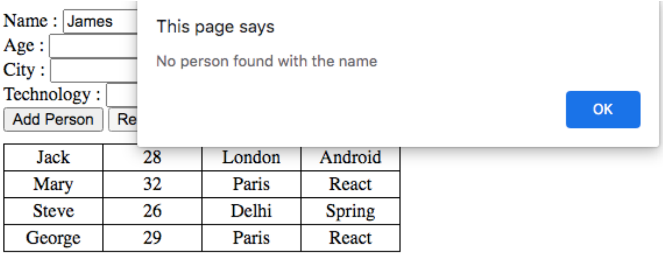
Clicking on Remove Person, removes the person whose name is entered. If no such person is found, it shows an alert.


Name : Bob
Age :
City :
Technology :

Jack	28	London	Android
Mary	32	Paris	React
Bob	35	New York	Angular
Steve	26	Delhi	Spring
George	29	Paris	React


Name :
Age :
City :
Technology :

Jack	28	London	Android
Mary	32	Paris	React
Steve	26	Delhi	Spring
George	29	Paris	React


Name : James
Age :
City :
Technology :

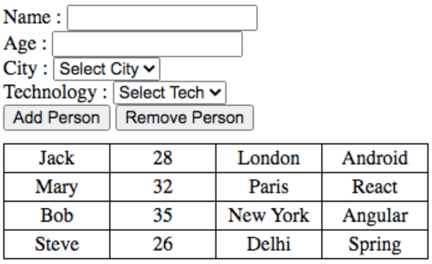
This page says

No person found with the name

Jack	28	London	Android
Mary	32	Paris	React
Steve	26	Delhi	Spring
George	29	Paris	React

Task 3.2

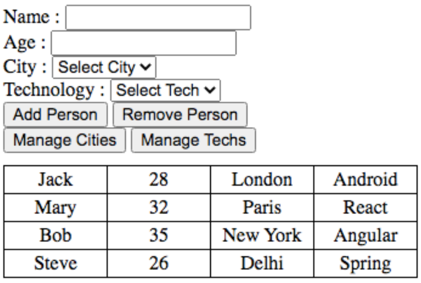
In the form, city and technology are dropdowns instead of text fields. The initial array for them are ['London','Paris','Delhi','NewYork'] and ['Android','React','Angular','Spring','Javascript']


Name :
Age :
City : Select City
Technology : Select Tech

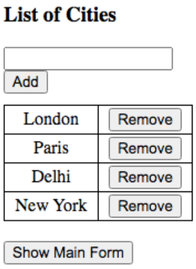
Jack	28	London	Android
Mary	32	Paris	React
Bob	35	New York	Angular
Steve	26	Delhi	Spring

Task 3.3

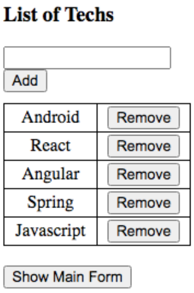
The buttons Manage Cities and Manage Techs are added. They are to manage the options shown in the dropdowns. Clicking on them, shows their current options with add and remove functionality. The button Show Main Form, shows the main screen, the one on the left.


Name :
Age :
City : Select City
Technology : Select Tech

Jack	28	London	Android
Mary	32	Paris	React
Bob	35	New York	Angular
Steve	26	Delhi	Spring


List of Cities

London	Remove
Paris	Remove
Delhi	Remove
New York	Remove


List of Techs

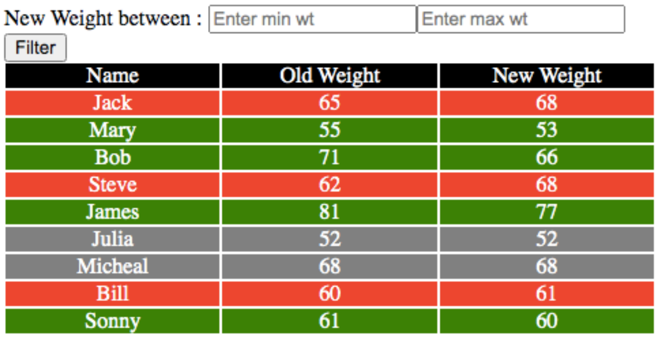
Android	Remove
React	Remove
Angular	Remove
Spring	Remove
Javascript	Remove

JS-A3#2

Task 4.1

Given an array of JSON, show them in a table as given below. The color coding is
- Red if new weight is greater than old weight
- Grey if they are the same
- Green if new weight is less than old weight.

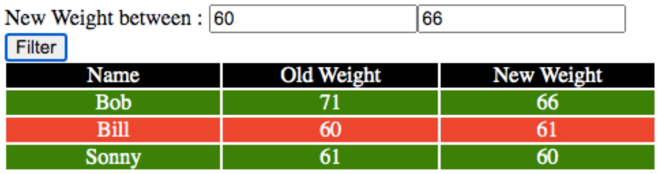
Clicking on the header of the table, sorts the table in descending order based on that field.
When the Filter button is clicked, it filters and shows those whose new weight is between the entered values.



New Weight between : Enter min wt Enter max wt

Filter

Name	Old Weight	New Weight
Jack	65	68
Mary	55	53
Bob	71	66
Steve	62	68
James	81	77
Julia	52	52
Micheal	68	68
Bill	60	61
Sonny	61	60



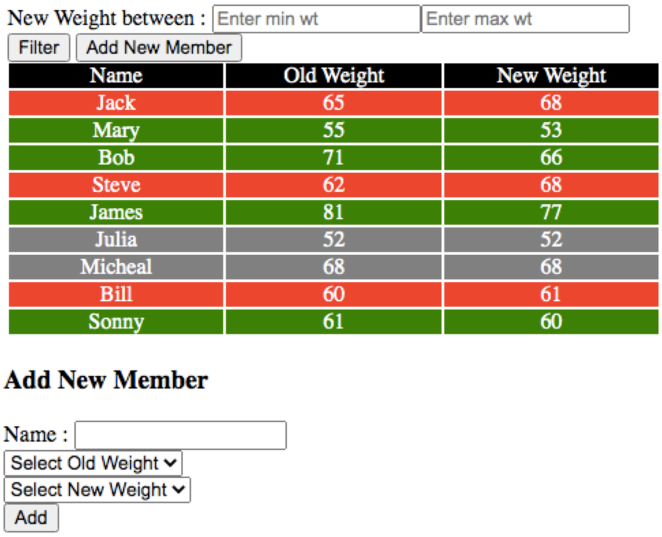
New Weight between : 60 66

Filter

Name	Old Weight	New Weight
Bob	71	66
Bill	60	61
Sonny	61	60

Task 4.2

Add a button, Add New Member which shows a form to get the details of new member. Note that old weight and new weight are dropdowns with the options from 40 to 100. Using a for loop create and appropriate array. Use that array to make the dropdown.



New Weight between : Enter min wt Enter max wt

Filter Add New Member

Name	Old Weight	New Weight
Jack	65	68
Mary	55	53
Bob	71	66
Steve	62	68
James	81	77
Julia	52	52
Micheal	68	68
Bill	60	61
Sonny	61	60

Add New Member

Name :

Select Old Weight

Select New Weight

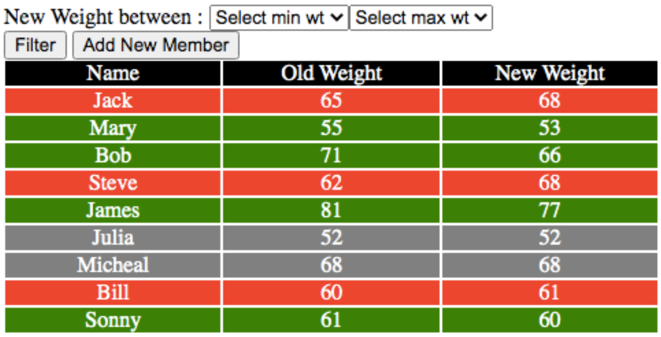
Add

Task 4.3

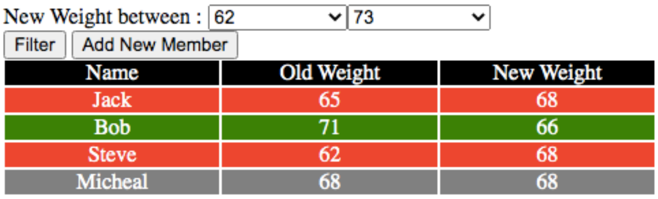
Instead of the text fields for taking the inputs for the filter, use dropdowns. The values in the dropdowns should be all the numbers between the min and max new weights. Use reduce to calculate the min new weight and max new weight.

JS-A3#2

Then create an array having the numbers from min new weight to max new weight. Use this array to create the dropdown. Note that after the filter, the values chosen in the dropdown as shown as selected.


New Weight between : Select min wt Select max wt

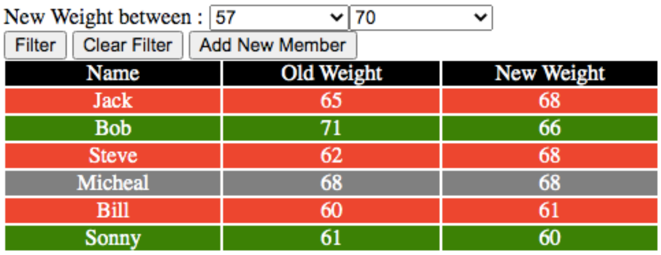
Name	Old Weight	New Weight
Jack	65	68
Mary	55	53
Bob	71	66
Steve	62	68
James	81	77
Julia	52	52
Micheal	68	68
Bill	60	61
Sonny	61	60


New Weight between : 62 73

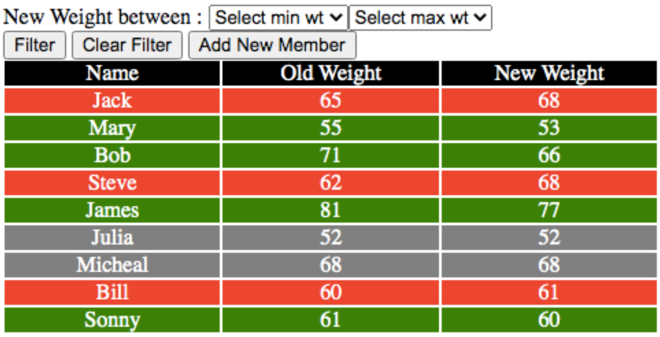
Name	Old Weight	New Weight
Jack	65	68
Bob	71	66
Steve	62	68
Micheal	68	68

Task 4.4

Add a button Clear Filter. It clears the filter as shown below.


New Weight between : 57 70

Name	Old Weight	New Weight
Jack	65	68
Bob	71	66
Steve	62	68
Micheal	68	68
Bill	60	61
Sonny	61	60


New Weight between : Select min wt Select max wt

Name	Old Weight	New Weight
Jack	65	68
Mary	55	53
Bob	71	66
Steve	62	68
James	81	77
Julia	52	52
Micheal	68	68
Bill	60	61
Sonny	61	60

Task 5

A store has a product master, which has details of the products in the store. The product master in an array of JSON, with each JSON having Product Name, Category, Buy Price and Selling Price.

It also has a purchase master, which has details of all the products bought. The purchase master in an array of JSON, with each JSON having Product Name and Quantity.

JS-A3#2

Create a web application that shows 4 buttons initially.
1. Product Master - clicking on it shows a table with the details from the product master.
2. New Product - clicking on it shows a form to take a new product as input. Category is a dropdown with the options Food, Soap, Shampoo and Toothpaste. When a new product is added, the product master is displayed.
3. Purchase Master - clicking on it shows a table with the details from the purchase master. The table shows the columns Product, Quantity, Price and Value. Note that price is obtained from the product master and value is calculated as price and quantity.
4. New Purchase - clicking on it shows a form to take a new purchase as input. The form has the Product Name as a dropdown and a text field for quantity. After a new purchase is added, the purchase master is displayed.

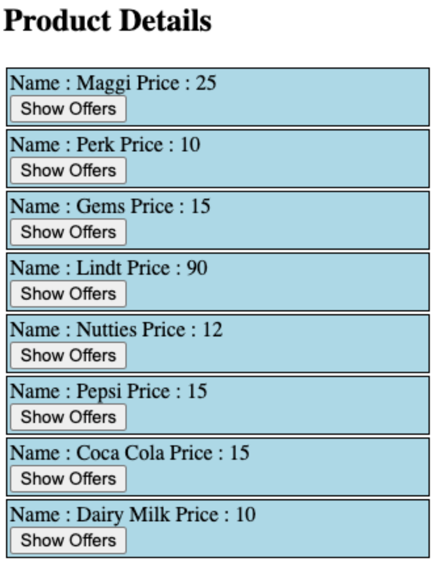
Note that in all the 4 button clicks, the 4 buttons continue to be shown on top.

Task 6

Given an array of JSON

```
{"name":"Maggi","price":25, offers:["Citi Credit Cards","ICICI Card"]}
{"name":"Perk","price":10, offers:["Axis Credit Cards","PayTM"]}
{"name":"Gems","price":15, offers:["SBI Card","PhonePe","PayTM"]}
{"name":"Lindt","price":90, offers:[]}
{"name":"Nutties","price":12, offers:["Citi Credit Cards "]}
{"name":"Pepsi","price":15, offers:["PhonePe","PayTM"]}
{"name":"Coca Cola","price":15, offers:["SBI Card"]}
{"name":"Dairy Milk","price":10, offers:[]}
```

Use the above data, to create the app as shown in the screenshots below. When the Show Offers button is clicked, the display of that product is changed, the offers are displayed and the button text is Hide Offers.
Clicking on Hide Offers changes it back to Show Offers and the original display.
Note : At any given time, the offers of maximum 1 product can be shown. To achieve this have a variable to store the index of the product whose Show Offers is clicked. If none is clicked, make it -1.



Product Details

Name : Maggi Price : 25

Name : Perk Price : 10

Name : Gems Price : 15

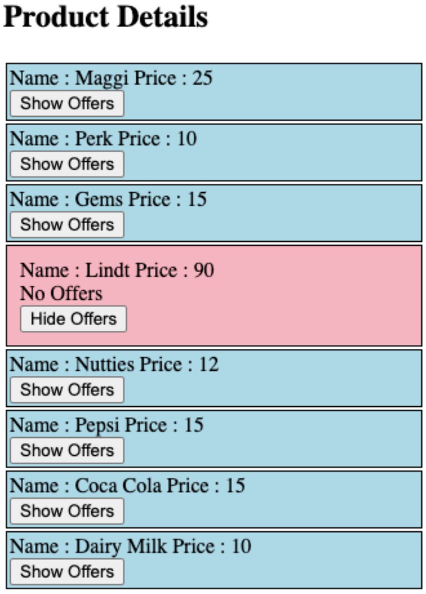
Name : Lindt Price : 90

Name : Nutties Price : 12

Name : Pepsi Price : 15

Name : Coca Cola Price : 15

Name : Dairy Milk Price : 10



Product Details

Name : Maggi Price : 25

Name : Perk Price : 10

Name : Gems Price : 15

Name : Lindt Price : 90
No Offers

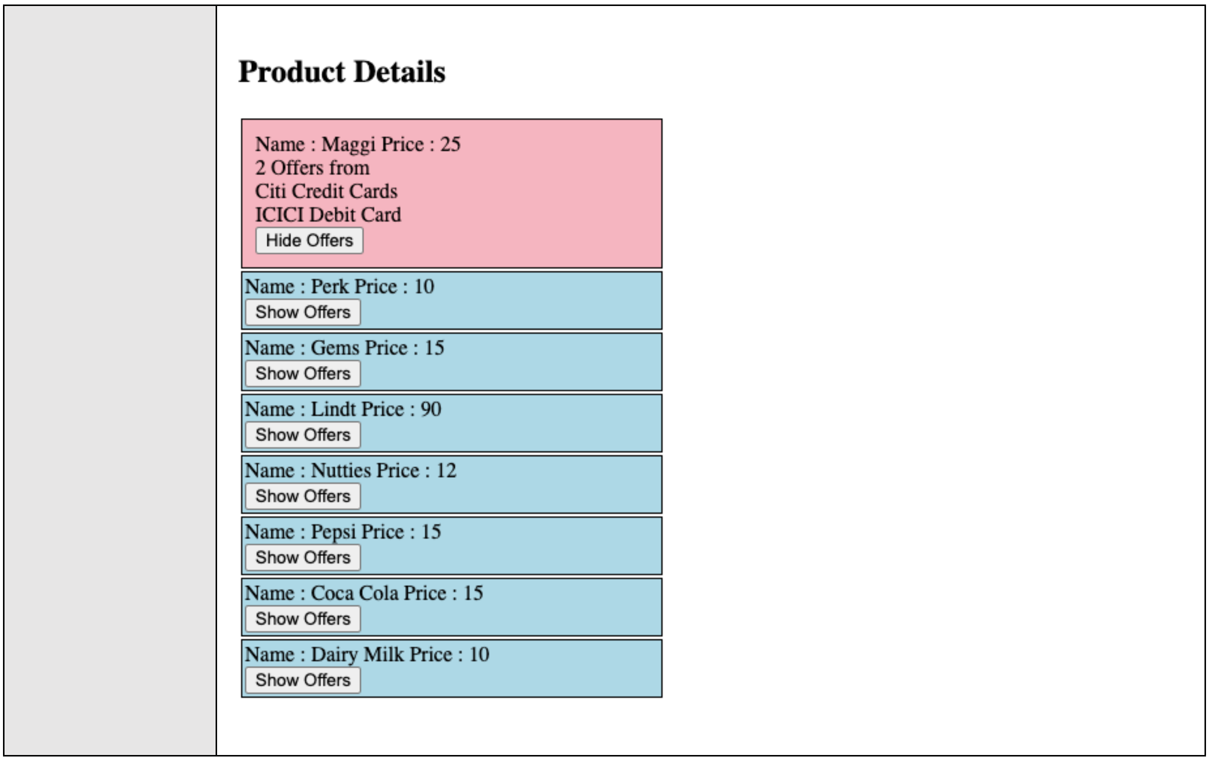
Name : Nutties Price : 12

Name : Pepsi Price : 15

Name : Coca Cola Price : 15

Name : Dairy Milk Price : 10

JS-A3#2



Product Details

Name : Maggi Price : 25
2 Offers from
Citi Credit Cards
ICICI Debit Card

Name : Perk Price : 10

Name : Gems Price : 15

Name : Lindt Price : 90

Name : Nutties Price : 12

Name : Pepsi Price : 15

Name : Coca Cola Price : 15

Name : Dairy Milk Price : 10