

Lab 4 – View and search products - II

Aim

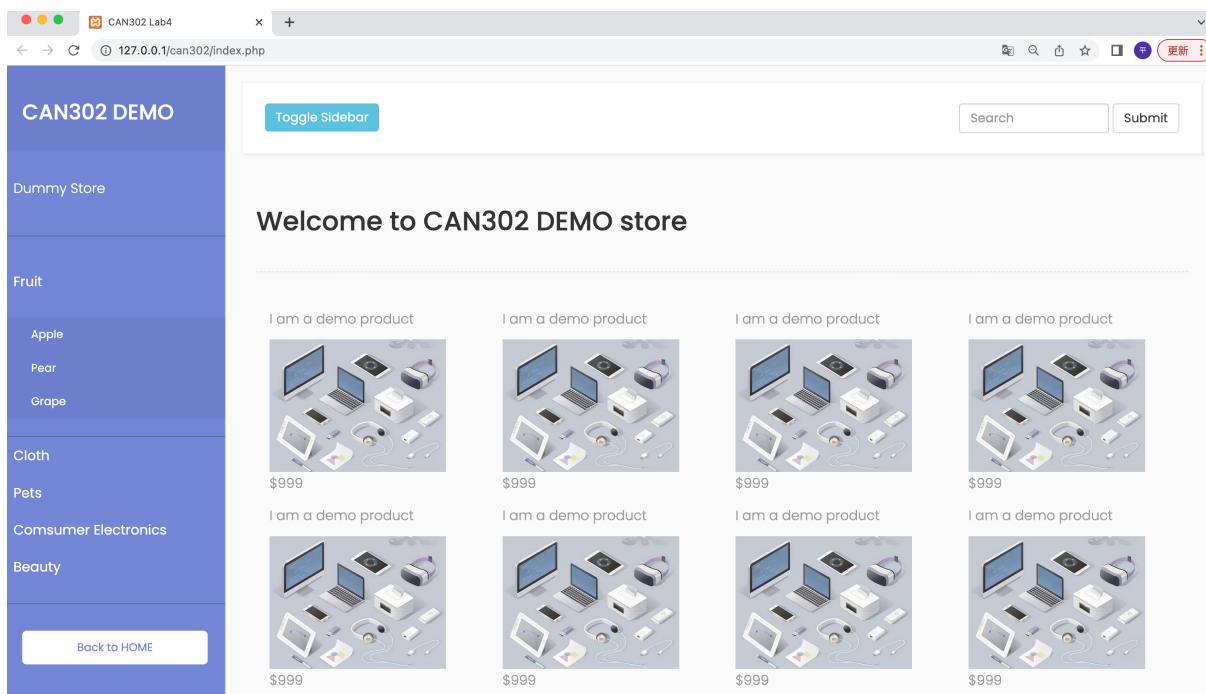
The aim of this lab is to learn how to setup the product related database and search products through the webpage.

Tips:

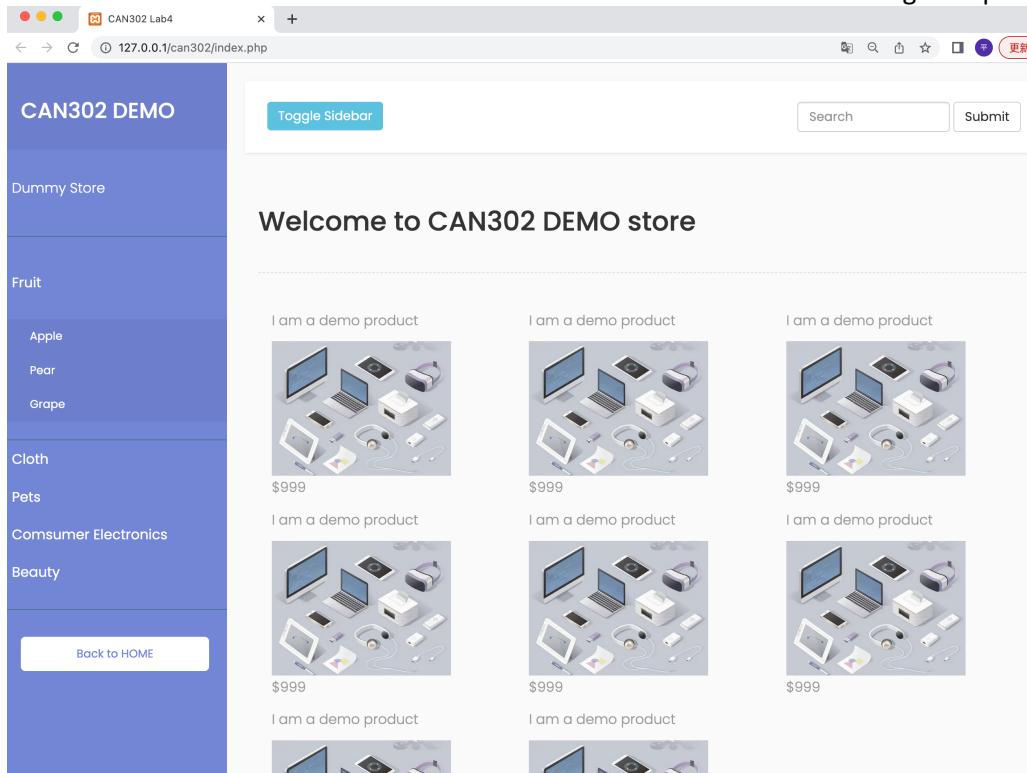
1. If you are not sure why you are doing something, ask a TA. This is what they are here for.
2. The M-Dev-Store online videos are good references while our labs have different focus. If you want to be an expert, you are recommended take both labs and on-line videos.
3. The forums @ LMO are available for questions and discussions.
4. These labs are expected take more than the 2 allocated hours. You should complete them in your own time before the next lab. Practice makes perfect!

Preparing the HTML part:

1. Continue from last lab, the right part would be used to display the search result of products. It would be looks like:



And it should be a responsive one. It means when the width of browser changed, the content in one-line would change automatically. The media resolution one is as:



Bootstrap have 12 columns each row, in “col-lg-3” lg is for the large solution and 3 means this div will occupy 3/12 of this row. By define the different number of columns under different solution, the webpage is responsive now. The html code to achieve this is as:

```

108
109     <div class="container-fluid"> <!-- Show products here-->
110     <h2>Welcome to CAN302 DEMO store</h2>
111     <div class="line"></div>
112
113     <div class="col-lg-3 col-md-4 col-sm-6">
114         <p> I am a demo product</p>
115         
116         <p> $999</p>
117     </div>
118
119     <div class="col-lg-3 col-md-4 col-sm-6">
120         <p> I am a demo product</p>
121         
122         <p> $999</p>
123     </div>
124
125     <div class="col-lg-3 col-md-4 col-sm-6">
126         <p> I am a demo product</p>
127         
128         <p> $999</p>
129     </div>
130

```

Please notice the search result is a simple duplication. Then we can use foreach to output the search result. In the meantime, an `` tag was used to show the pics of the product. This demo would use a static picture for demo purpose. For the real project, the pics of each product need to be stored on the server and its address should be stored in database.

Search by categories:

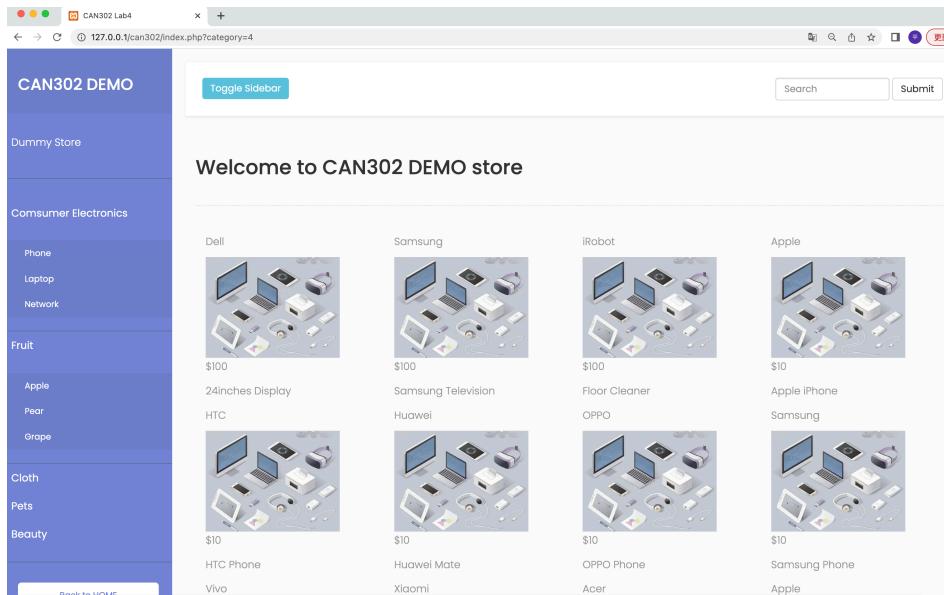
2. In last lab, the categories have been dynamically showed in the left-bar. We can use the GET method to search products by its categories. Similar to the lab2, we can use the same page to receive different parameters. To safely receive the GET parameter by PHP, the code is as:

```

16
17 //a safe method to receive get data
18 function myget($str) {
19     $val = !empty($_GET[$str]) ? $_GET[$str] : '';
20     return $val;
21 }
22

```

By receiving the category id, we need to search out the products under this category and its sub-categories. Again, “recursion” should be used for that purpose. A sample was shown:



General Search:

3. Put products in categories is good for the shop owners to manage the store but it is obviously not the friendly one for customers. For example, customers may want to search the products by brand. Then a general search like search engineer is preferred. A search function has been showed in the right-up corner of the webpage. It has a form with POST method. The HTML code is as:

```

111      <!-- Nav Bar Holder-->
112      <nav class="navbar navbar-default">
113          <div class="container-fluid">
114              <div class="navbar-header">
115                  <button type="button" id="sidebarCollapse" class="btn btn-info navbar-btn">
116                      <span>Toggle Sidebar</span>
117                  </button>
118              </div>
119              <div class="navbar-right">
120                  <form class="navbar-form" role="search" method="post">
121                      <div class="form-group">
122                          <input type="text" class="form-control" placeholder="Search">
123                      </div>
124                  </form>
125              </div>
126          </div>
127      </nav>
128

```

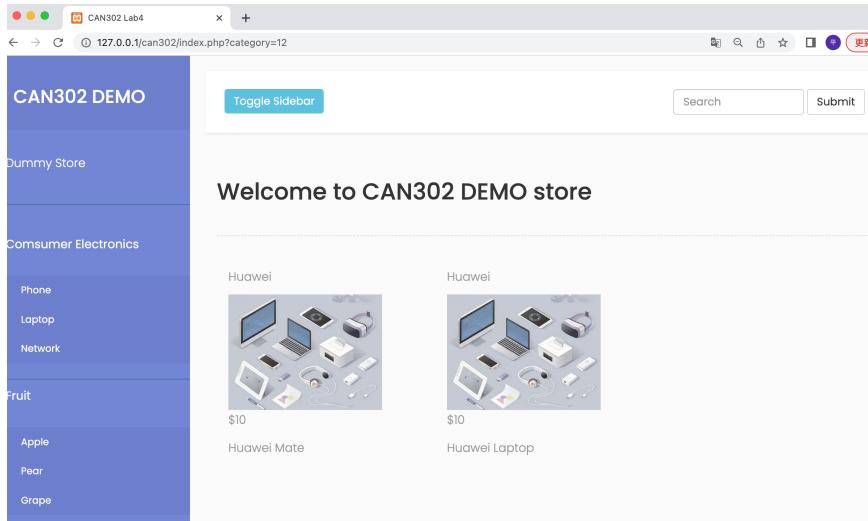
The demo of this lab received the posted “keyword” and search the name and description columns. The code is as:

```

68 function searchproduct($db_con, $keyword){
69     $sql = 'SELECT * FROM product WHERE name LIKE "%' . $keyword . '%" OR description LIKE "%' . $keyword . '%" ORDER BY name';
70     $query = $db_con->query($sql);
71     foreach($query as $row){
72         echo '<div class="col-lg-3 col-md-4 col-sm-6">';
73         echo '<p>' . $row["name"] . '</p>';
74         echo '';
75         echo '<p>' . $row["price"] . '</p>';
76         echo '<p>' . $row["description"] . '</p>';
77         echo '</div>';
78     }
79 }

```

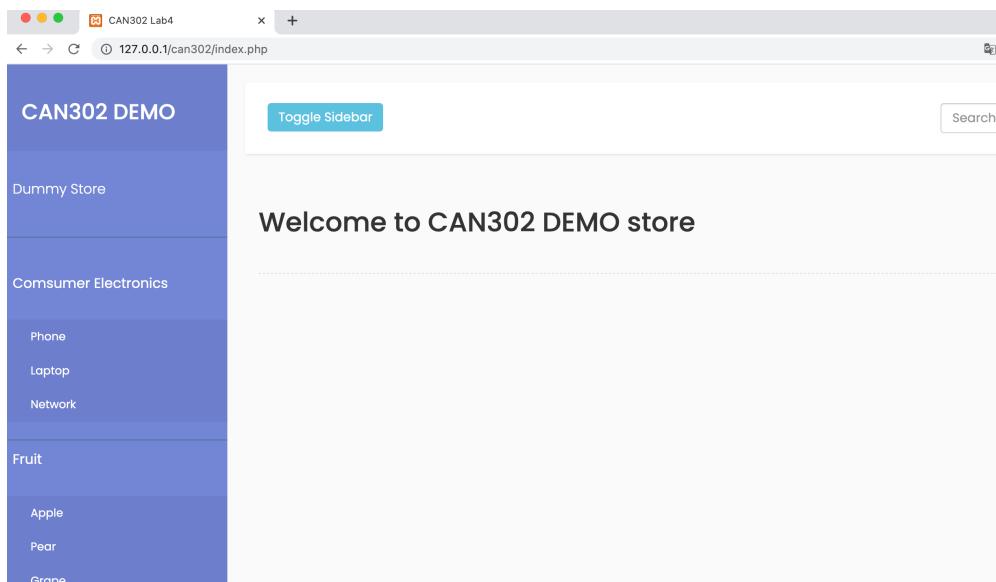
The searching result on web is as:



Be careful, this is **ONLY** a demo. It is very resource-consuming to use “LIKE” in the SQL. Put keywords as “tags” to a product is a better way for search. And the mainstream e-stores all build the search engine or SE for general search, which is designed for this kind of general search.

Homework:

4. Till now, the landing page shows nothing as flowing:



To improve it, a “slider function” should be added to show the “hot” products as following:

