21. 行動版網站介面(ajax技術)

本例子利用ajax的技術結合HTML5、JavaScript、Jquery Mobile、PHP、MySQL等技術開發一個行動版型錄網站，功能截圖如下!

工具

images

mobile_sto
re

主頁面 #home	#intro	選取上一個 #book	選取下一個 #book

以下步驟先將layout設定完成後再寫程式!
1. 完成#home #intro #book 等三個畫面的配置

#home

```html
<div data-role="page" id="home">
  <div data-role="header" data-position="fixed">
      <h1>行動商品型錄</h1>
  </div>
  <div data-role="content">
    <img src="mobile_store.jpg" width="100%">
    <a href="#intro" data-rel="dialog" data-role="button" data-icon="arrow-r">快樂出版社簡介</a>
    <a href="#book" data-role="button" data-icon="arrow-r">書籍介紹</a>
  </div>
  <div data-role="footer" data-position="fixed"><h4>&copy;快樂出版社</h4></div>
</div>
```

行動商品型錄

| ⊕ | 快樂出版社簡介 |
| ⊕ | 書籍介紹 |

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#intro
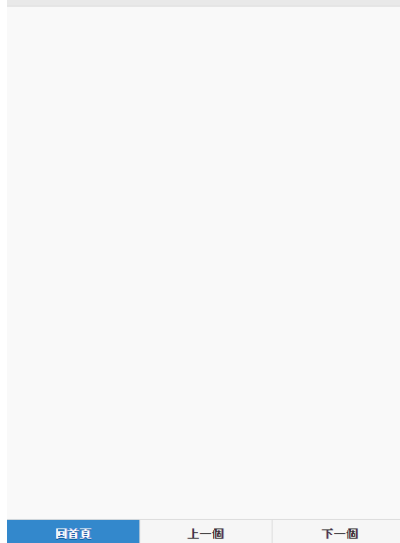
```
<div data-role="page" id="intro">
  <div data-role="header"><h1>快樂出版社簡介</h1></div>
  <div data-role="content">
    <p>快樂出版社專門發行各類電腦書籍，包括 Office、程式設計、繪圖...等系列圖書，若您有任何問題，請來電與我們聯絡。</p>
  </div>
</div>
```


#book

書籍介紹

| 回首頁 | 上一個 | 下一個 |

2. 建立資料庫

			book_id	image_name	description
☐	✎	✗	1	ACL037300.jpg	價格：350　書號：ACL037300 網頁開發人員升級至 HTML5 的最佳利器！
☐	✎	✗	2	ACL039600.jpg	價格：540　書號：ACL039600 ★超值加碼！使用 PhoneGap Build 將行...
☐	✎	✗	3	AEB002800.jpg	價格：560　書號：AEB002800 訪察多所院校之資電科系、理工科系教師意見編寫而成，...
☐	✎	✗	4	AEB003100.jpg	價格：520　書號：AEB003100 針對資訊科學教育所設計，廣泛且精要地探討資訊科學相...
☐	✎	✗	5	AEN003400.jpg	價格：550　書號：AEN003400 完全針對網路概論、資料通訊所設計，廣泛且精要地探討...

3. 設計按鈕觸發事件

```html
<div data-role="page" id="book">
  <div data-role="header"><h1>書籍介紹</h1></div>
  <div data-role="content">
    <img id="bookimg" width="100%">
    <p id="bookmsg" />
  </div>
  <div data-role="footer" data-position="fixed">
    <div data-role="navbar">
      <ul>
        <li><a href="#home" class="ui-btn-active ui-state-persist">回首頁</a></li>
        <li><a href="javascript:get_book_info('prev')">上一個</a></li>
        <li><a href="javascript:get_book_info('next')">下一個</a></li>
      </ul>
    </div>
  </div>
</div>
```

4. 新增ajax 語法($.get)

```html
<script>
var book_id = 0;

function get_book_info(mode)
{
  $.get("get_book_info.php", {book_id: book_id, mode: mode}, function(data){
    book_id = data.book_id;
    $("#bookimg").attr("src", data.image_name);
    $("#bookmsg").html(data.description);
  }, "json");
}
</script>
```

book_id: 用來記錄第幾張圖片**(book_id)**
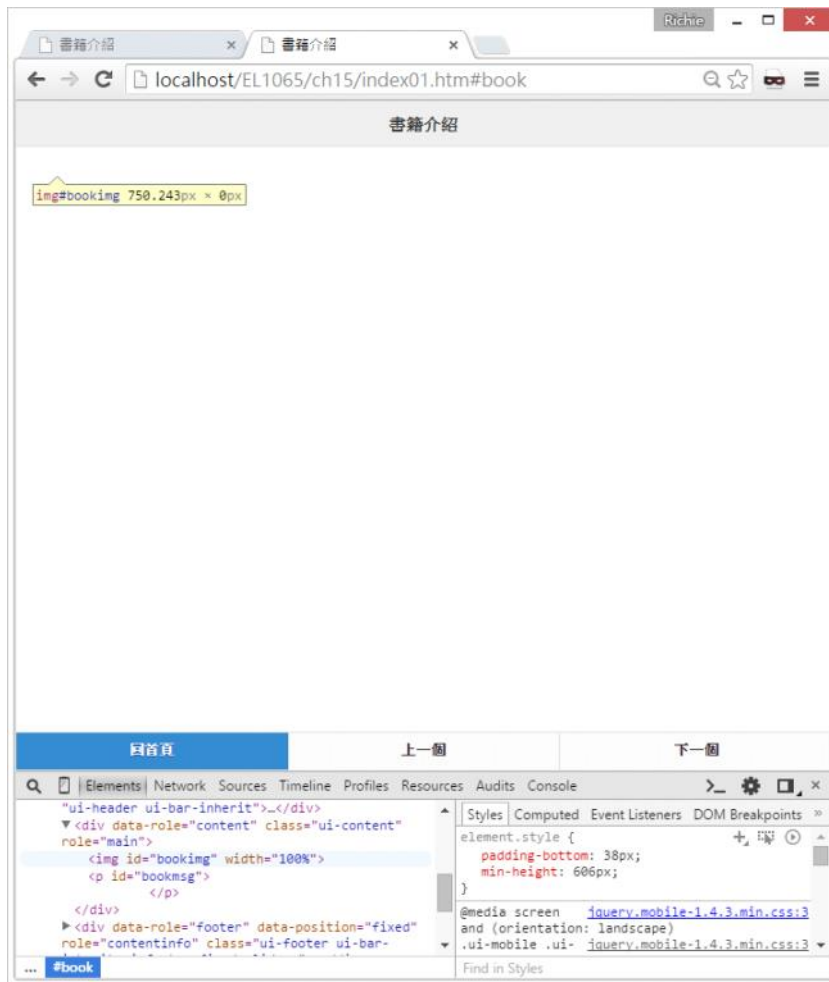{book_id: book_id, mode: mode}: 傳遞給get_book_info.php的兩個參數
function(data): 回傳的資料與要執行的動作函式
$("#bookimg").attr("src", data.image_name): 將#bookimg這個位置的圖片改成 data.image_name**(資料撈取的資料)**
$("#bookmsg").html(data.description): 將#bookmsg這個位置的圖片改成 data.description**(資料撈取的資料)**

5. 將畫面商品欄位與說明欄未命名

```html
<div data-role="page" id="book">
  <div data-role="header"><h1>書籍介紹</h1></div>
  <div data-role="content">
    <img id="bookimg" width="100%">
    <p id="bookmsg" />
  </div>
  <div data-role="footer" data-position="fixed">
    <div data-role="navbar">
      <ul>
        <li><a href="#home" class="ui-btn-active ui-state-persist">回首頁</a></li>
        <li><a href="#">上一個</a></li>
        <li><a href="#">下一個</a></li>
      </ul>
    </div>
  </div>
</div>
```

6. dbtools.inc.php

```php
<?php
  function create_connection()
  {
    $link = mysqli_connect("localhost", "root", "123456")
      or die("無法建立資料連接: " . mysqli_connect_error());

    mysqli_query($link, "SET NAMES utf8");
    return $link;
  }

  function execute_sql($link, $database, $sql)
  {
    mysqli_select_db($link, $database)
      or die("開啟資料庫失敗: " . mysqli_error($link));

    $result = mysqli_query($link, $sql);

    return $result;
  }
?>
```

7. dbtools.inc.php

```php
<?php
  function create_connection()
  {
    $link = mysqli_connect("localhost", "root", "123456")
      or die("無法建立資料連接: " . mysqli_connect_error());

    mysqli_query($link, "SET NAMES utf8");
    return $link;
  }

  function execute_sql($link, $database, $sql)
  {
    mysqli_select_db($link, $database)
      or die("開啟資料庫失敗: " . mysqli_error($link));

    $result = mysqli_query($link, $sql);

    return $result;
  }
?>
```

此檔案的目的就是要定義 create_connection() and execute_sql($link, $database, $sql)這兩個function

8. get_book_info.php

```php
<?php
  require_once("dbtools.inc.php");

  $book_id = $_GET["book_id"];
  $mode = $_GET["mode"];
  $link = create_connection();

  if ($mode == "prev")
  {
    $sql = "select * from product where book_id < $book_id order by book_id desc limit 1";
    $result = execute_sql($link, "mobile_store", $sql);
    $total_records = mysqli_num_rows($result);

    if ($total_records == 1)
    {
      $row = mysqli_fetch_assoc($result);

      echo json_encode(array("book_id" => $row["book_id"], "image_name" => $row["image_name"], "description" => $row["description"]));
    }
    else
    {
      $sql = "select * from product where book_id = (select max(book_id) from product)";
      $result = execute_sql($link, "mobile_store", $sql);
      $row = mysqli_fetch_assoc($result);

      echo json_encode(array("book_id" => $row["book_id"], "image_name" => $row["image_name"], "description" => $row["description"]));
    }
  }
  else if...

  mysqli_free_result($result);
  mysqli_close($link);
?>
```

require_once("dbtools.inc.php"): 載入dbtools.inc.php
$book_id = $_GET["book_id"]: 接受由按鈕傳遞過來的book_id
$mode = $_GET["mode"]: 接受由按鈕傳遞過來的mode

當按鈕為"上一個"取得上一本書籍的介紹，若已經是位於第一本則取得最後一本書!

```php
<?php
  require_once("dbtools.inc.php");

  $book_id = $_GET["book_id"];
  $mode = $_GET["mode"];
  $link = create_connection();

  if ($mo...
  else if ($mode == "next")
  {
    $sql = "select * from product where book_id > $book_id order by book_id limit 1";
    $result = execute_sql($link, "mobile_store", $sql);
    $total_records = mysqli_num_rows($result);

    if ($total_records == 1)
    {
      $row = mysqli_fetch_assoc($result);

      echo json_encode(array("book_id" => $row["book_id"], "image_name" => $row["image_name"], "description" => $row["description"]));
    }
    else
    {
      $sql = "select * from product where book_id = (select min(book_id) from product)";
      $result = execute_sql($link, "mobile_store", $sql);
      $row = mysqli_fetch_assoc($result);

      echo json_encode(array("book_id" => $row["book_id"], "image_name" => $row["image_name"], "description" => $row["description"]));
    }
  }

  mysqli_free_result($result);
  mysqli_close($link);
?>
```

當按鈕為"下一個"取得下一本書籍的介紹，若已經是位於最後一本則取得第一本書!

9. 設定初始值為第一張，配合book_id=0

```
<body onload="javascript:get_book_info('next')">
```

10. 請改寫成一次顯示兩張圖片