

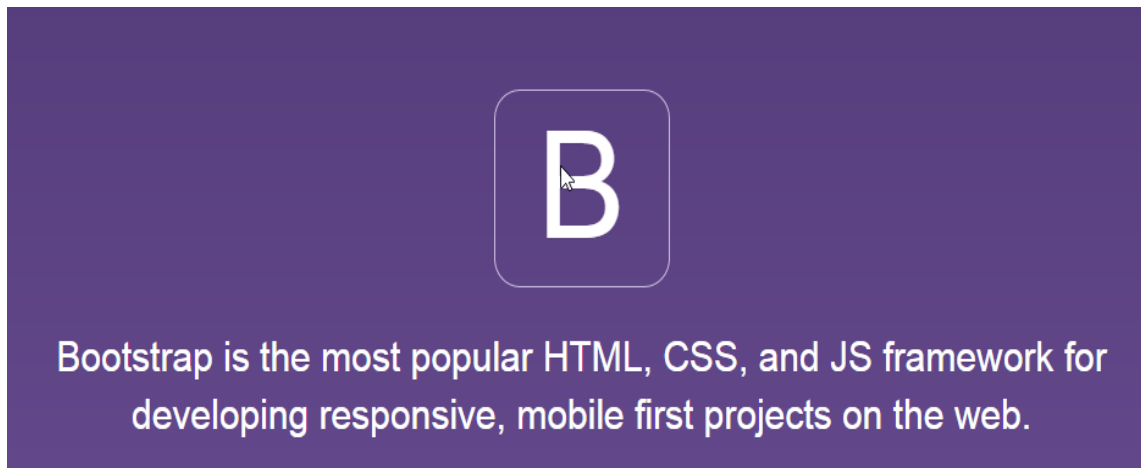


Responsive Web Design using BOOTSTRAP

What is BootStrap?

Bootstrap is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-first web sites. (<http://www.w3schools.com/bootstrap>)

Available here - <http://getbootstrap.com/>



One framework, every device.

Bootstrap easily and efficiently scales your websites and applications with a single code base, from phones to tablets to desktops with CSS media queries.



Full of features

With Bootstrap, you get extensive and beautiful documentation for common HTML elements, dozens of custom HTML and CSS components, and awesome jQuery plugins.

HTML without framework is dull. Doing hard-coded CSS and JS are quite difficult with no promising result on cross platform compatibility. So we decided to explore BootStrap as others said it is the most popular web framework.

Why you need Flat-UI? Seems like a beautiful theme to make my site look professional. Anyway you could get variety of BootStrap theme out there, feel free to select here <http://bootstraphero.com/the-big-badass-list-of-twitter-bootstrap-resources/>

Flat-UI is from DesignModo - <http://designmodo.com/flat/>

What Flat-UI from DesignModo have to offer you?



What is Responsive web design?

Definition: Responsive Web Design is about using CSS and HTML to resize, hide, shrink, enlarge, or move the content to make it look good (visually appealing) on any screen size such as desktop, tablet, phablet or mobile phone.

Example of Responsive Web Layout

Both websites below are displayed from the same HTML code source, however the size of the display are different. The left displayed on desktop screen, while the right displayed on a mobile phone. Previously web developer need to have two different HTML source code; one source is the main desktop layout, and another one is downgraded code to suite mobile phone small screen size. With responsive web layout design, this will be an issue of the past.



Example of Responsive Layout: the display on the left is desktop view, and the right one is mobile phone view.

HTML code requirements

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Case 2-Columns</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1">
  <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.4/css/bootst
rap.min.css">
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquer
y.min.js">
</script>
  <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.4/js/bootstr
ap.min.js">
</script>
</head>
<body>
  ... Content is here...
</body>
</html>
```

This is an important meta information that is required in your responsive HTML head;

```
<meta name="viewport" content="width=device-width, initial-
scale=1">
```

This line define that your HTML page is optimized for mobile device screen.

Importing the Bootstrap framework.

Below are three framework calling for Bootstrap implementation in your HTML page. These three libraries are imported from the cloud. You can also download and store the libraries in your own server, which for us personally the better way to do it. Refer to the project example for hosting the framework in your own server.

1. CSS library

```
<link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.4/css/bootstra
p.min.css">
```

2. JavaScript library jQuery

```
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquery.m
in.js">
</script>
```

3. JavaScript library for Bootstrap

```
<script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.4/js/bootstrap.
min.js">
</script>
```

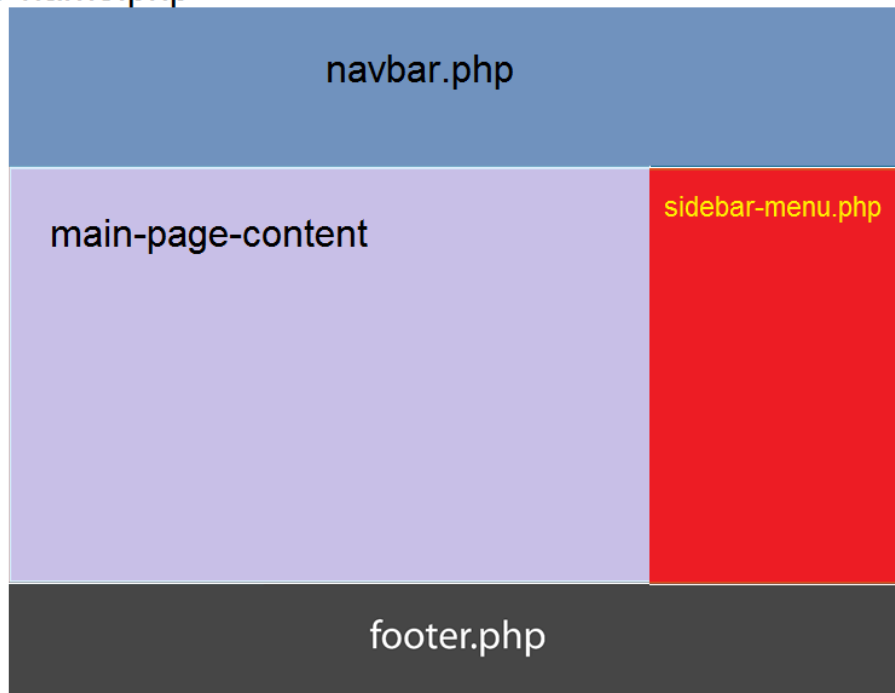
Project Example

We would like to brief the project MyCOMPANYHR – a simple web based system to manage employees' profiles.

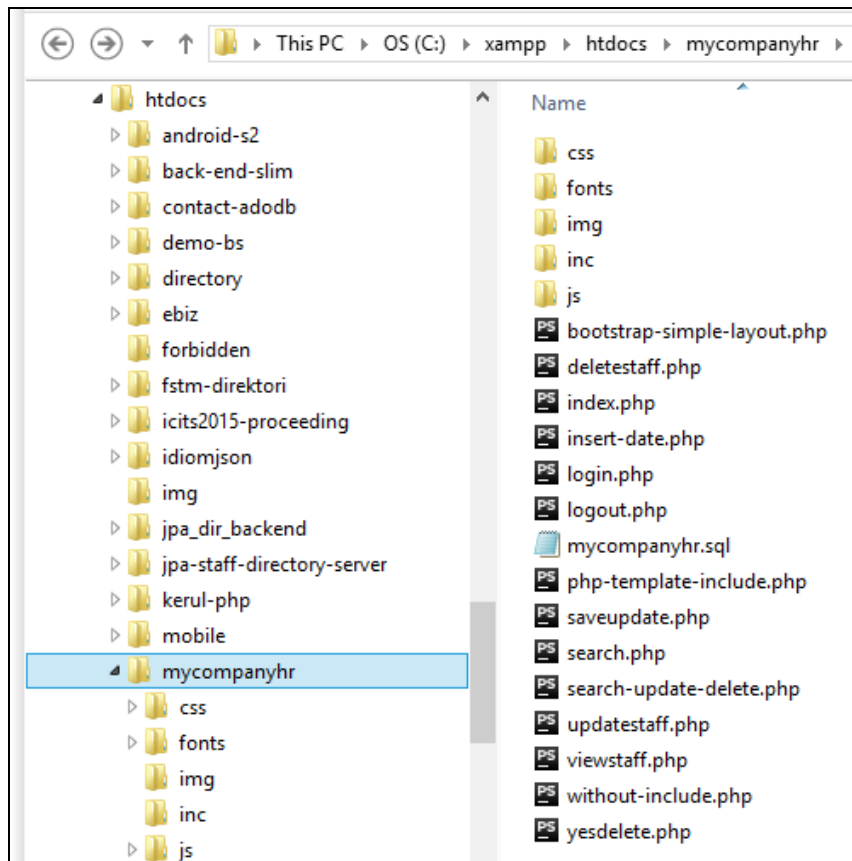
Below is the simple layouting. And we use a lot of PHP file include in the project.

- The include statement includes and evaluates the specified file.
- When a file is included, the code it contains inherits the variable scope of the line on which the include occurs. Any variables available at that line in the calling file will be available within the called file, from that point forward. However, all functions and classes defined in the included file have the global scope.
- To learn more, head to php.net/include

file-name.php



The main layout of MyCOMPANYHR project.



The mycompanyhr project folder structure

Working with the project template.

- Download the template here - <http://bit.ly/mycompanyhr>
- You can import the MySQL database by importing the *mycompanyhr.sql* into your MySQL server. Use import feature available in the *phpMyAdmin*.
- The template file is *php-db-template.php*
- The files for inclusion are available at folder **inc**
 - *dbconn.php*
 - *navbar.php*
 - *sidebar-menu.php*
 - *footer.php*
- CSS and JS folders are also available, contain the FLAT-UI BootStrap framework.

The main PHP files contains code as below.

```
<?php
//include the database connectivity setting
include ("inc/dbconn.php");
//include the navigation bar
include ("inc/header-navbar.php");?>

<div class="container">
    <br>
    <br>
    <div class="row">
        <div class="col-md-9" name="maincontent" id="maincontent">
            <!-- *****Edit your content STARTS from here***** -->

            THE PAGE CONTENTS ARE HERE

            <!-- *****Edit your content ENDS here***** -->

        </div><!-- end main content -->

        <?php
            //include the sidebar menu
            include ("inc/sidebar-menu.php");
        ?>
    </div><!-- end row -->
</div><!-- end container -->

<?php
//include the footer
include ("inc/footer.php");?>
```

Notice the comment below, those are HTML comment. Write your PHP codes inside the border.

```
<!-- *****Edit your content STARTS from here***** -->

    THE PAGE CONTENTS ARE HERE

<!-- *****Edit your content ENDS here***** -->
```

Some screenshots of the available features of the simple system.

localhost/myhr/login-form.php

KERUL.net KUIS FSTM.kuis.edu.my PHP.net/mysql

Login

000341

.....

Sign In

HR Public menus

Home Directory

Login

mysql Ref

by Kerul.net

KERUL.net FSTM.kuis.edu.my KUIS PHP.net/mysql

Login page

localhost/mycompanyhr/php-template-include.php

KERUL.net KUIS FSTM.kuis.edu.my PHP.net/mysql

Template for PHP-MySQL Exercises

Simple Staff Search

Staff name... Search

HR system menus

Home Directory

Simple Staff Search

Advance Search

Insert New Staff

Update/Delete Staff

Logout

mysql Ref

Employee search feature

INSERT new staff

Insert new Staff Info

Staff ID
Employee number (Example 000567)

Firstname
Staff firstname here...

Lastname
Staff lastname here...

Department
B01 PLANNING

Phone
The staff phone extension...

Save new staff record

HR system menus

- Home Directory
- Simple Staff Search
- Advance Search
- Insert New Staff
- Update/Delete Staff

User ID 000341

Inserting a new record

Template for PHP-MySQL Ex

Search staff to update/delete record

Staff name... **Search**

Search result "john"

Employee no.	Firstname	Lastname	Department	Phone
000050	JOHNY	GEYER	E11	1001
000290	JOHN	PARKER	E11	4502

HR system menus

- Home Directory
- Simple Staff Search
- Advance Search
- Insert New Staff
- Update/Delete Staff

User ID 000341

View Profile

Logout

Deleting a record

Updating a record

EXERCISE

Develop a simple proceeding management system to facilitate an administrator to manage the proceedings paper of an academic conference. An academic proceeding paper is paperwork that is presented in an academic conference.

Administrator's page: The system could store (at least) information of the PDF file, paper id, paper title, name of authors, institution, corresponding email, abstract and keywords in the database.

The public page could display the list of proceedings as below to the public user.

Template for the exercise – Proceeding Management System.

Download here –

https://drive.google.com/file/d/0B5_Hw_xzXWcXaElxeENBTDB2aXc/view?usp=sharing