

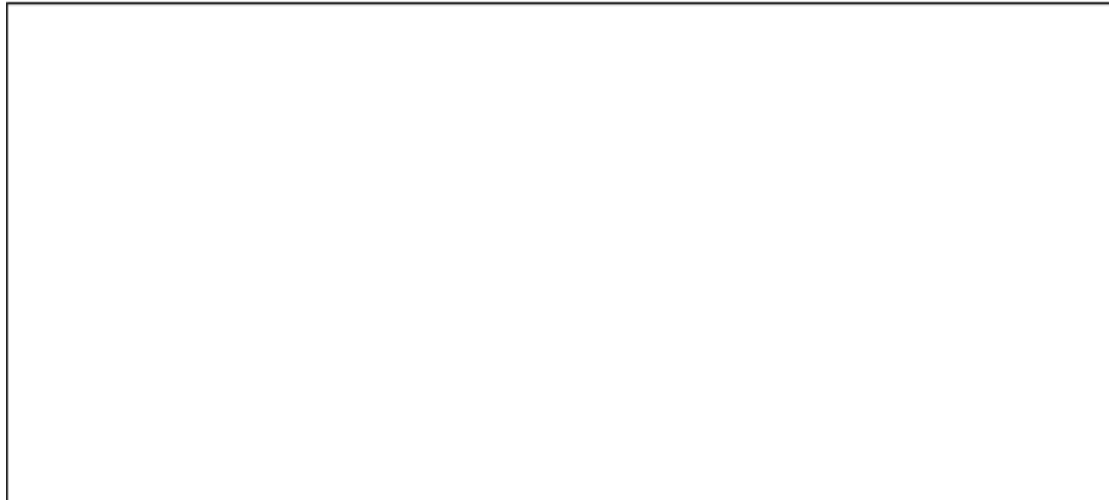
Content Management System

Cloud

Java

PHP

Python



Content Management System

Cloud

Java

PHP

Python

PHP

What is PHP ?

PHP is programming language and it's very easy and has many web frameworks and cms projects. [View more](#)

Web development using PHP ?

Web development text will be here..... [View more](#)

PHP and MySQL configuration

PHP and MySQL Configuration will go here..... [View more](#)

Why PHP is more easy

PHP is more easy details will go here. [View more](#)

....

N number of post....

What is PHP ?

[Home > PHP](#)

PHP is programming language and it's very easy and has many web frameworks and cms projects.....

Paragraph - 2

Paragraph - 3

....

.....

Linking Bootstrap & JQuery with HTML Page

```
<html>
  <head>
    <meta charset="UTF-8">
    <title>Content Management System</title>

    <!-- Bootstrap v3 CSS -->
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap-theme.min.css">
    <!-- Bootstrap v3 -->
  </head>
  <body>

    <!-- jQuery -->
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
    <!-- jQuery -->
    <!-- Bootstrap v3 Javascript -->
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
    <!-- Bootstrap v3 Javascript -->
  </body>
</html>
```

Splitting the html file into header.php and footer.php

header.php

```
<html>
  <head>
    <meta charset="UTF-8">
    <title>Content Management System</title>

    <!-- Bootstrap v3 CSS -->
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap-theme.min.css">
    <!-- Bootstrap v3 -->
  </head>
  <body>
```

footer.php

```
<!-- jQuery -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
<!-- jQuery -->
<!-- Bootstrap v3 Javascript -->
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
<!-- Bootstrap v3 Javascript -->
</body>
</html>
```

After splitting the **index.php** file look like

```
<?php
include './header.php';
?>
```

```
<?php
include './footer.php';
?>
```

Creation of **navbar.php**

```
<nav class="navbar navbar-inverse">
  <div class="container-fluid">

    <div class="navbar-header">
      <button type="button" class="navbar-toggle collapsed" data-toggle="collapse"
data-target="#bs-example-navbar-collapse-1" aria-expanded="false">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a class="navbar-brand" href="#">Content Management System</a>
    </div>

    <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
      <ul class="nav navbar-nav pull-right">

        <li><a href="#">Cloud</a></li>
        <li><a href="#">Java</a></li>
        <li><a href="#">PHP</a></li>
        <li><a href="#">Python</a></li>
      </ul>

    </div>
  </div>
</nav>
```

Creation of page.php

```
<?php
include './header.php';
include './navbar.php';
?>

<div class="container">
  <div class="row">
    <div class="col-sm-12">
      <h2 class="page-header">PHP</h2>

      <a href="post.php"><h3>What is PHP</h3> </a>
      <p>
        PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source
        general-purpose scripting language that is especially suited for web development and can be embedded
        into HTML.
        <a href="post.php">View More</a>
      </p>
      <br>
      <a href="post.php"><h3>Why is PHP</h3> </a>
      <p>
        PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source
        general-purpose scripting language that is especially suited for web development and can be embedded
        into HTML.
        <a href="post.php">View More</a>
      </p>

      <br>
      <a href="post.php"><h3>Web development using PHP</h3> </a>
      <p>
        PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source
        general-purpose scripting language that is especially suited for web development and can be embedded
        into HTML.
        <a href="post.php">View More</a>
      </p>

    </div>
  </div>
</div>

<?php
include './footer.php';
?>
```

Post.php

```
<?php
include './header.php';
include './navbar.php';
?>

<div class="container">
  <div class="row">
    <div class="col-sm-12">
      <h2>What is PHP</h2>
      <small class="pull-right">
        <a href="/">Home</a> > PHP
      </small>
      <br><br>
    <p>
      PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source
general-purpose scripting language that is especially suited for web development and can be embedded into
HTML.
```

```
    <br>
```

```

      Instead of lots of commands to output HTML (as seen in C or Perl), PHP pages contain HTML with
embedded code that does "something" (in this case, output "Hi, I'm a PHP script!"). The PHP code is enclosed in
special start and end processing instructions that allow you to jump into and out of "PHP mode."
```

```
    </p>
  </div>
</div>
</div>
```

```
<?php
include './footer.php';
?>
```


Modify header.php file

```
<nav class="navbar navbar-inverse">
  <div class="container-fluid">

    <div class="navbar-header">
      <button type="button" class="navbar-toggle collapsed" data-toggle="collapse"
data-target="#bs-example-navbar-collapse-1" aria-expanded="false">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a class="navbar-brand" href="#">Content Management System</a>
    </div>

    <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
      <ul class="nav navbar-nav pull-right">

        <li><a href="page.php">Cloud</a></li>
        <li><a href="page.php">Java</a></li>
        <li><a href="page.php">PHP</a></li>
        <li><a href="page.php">Python</a></li>
      </ul>

    </div>
  </div>
</nav>
```

Making Dynamic Web Application

addPage.php

```
<html>
  <head>
    <meta charset="UTF-8">
    <title></title>
  </head>
  <body>
    <form method="post">
      <h2> Add Page </h2>
      <pre>

          Name : <input type="text" name="name" required>

          Description :
              <textarea name="description"></textarea>

              <input type="submit" name="submit">

      </pre>
    </form>
  </body>
</html>

<?php
if(isset($_POST['submit']))
{
    include '../DbConfig.php'; /* Class file for database connection */
    $obj=new Connection(); /* Connection Object */

    $name=$_POST['name'];
    $description=$_POST['description'];

    $qry="INSERT INTO page (`Name`, `Description`) VALUES ('$name', '$description')";
    $obj->putData($qry);
}??>
```

Modifying navbar.php

```
<?php
include './DbConfig.php';
$obj=new Connection();
$result=$obj->getData("select ID,name from page");
?>

<nav class="navbar navbar-inverse">
  <div class="container-fluid">

    <div class="navbar-header">
      <button type="button" class="navbar-toggle collapsed" data-toggle="collapse"
data-target="#bs-example-navbar-collapse-1" aria-expanded="false">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a class="navbar-brand" href="#">Content Management System</a>
    </div>
    <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
      <ul class="nav navbar-nav pull-right">

        <?php
        foreach ($result as $page)
        {
          ?>
            <li><a href="page.php?pageID=<?=$page['ID'];?>"><?=$page['name'];?></a></li>
          <?php
          }
          ?>
        </ul>

      </div>
    </div>
  </nav>
```

addPost.php

```
<?php
include '../DbConfig.php'; /* Class file for database connection */
$obj=new Connection(); /* Connection Object */

$result=$obj->getData("select ID,name from page");
?>
<html>
<head>
<meta charset="UTF-8">
<title></title>
</head>
<body>
<form method="post">
<h2> Add Page </h2>
<pre>
    Page      : <select name="PageID">
        <?php
            foreach ($result as $page)
            {
                ?>
                <option value="<?=$page['ID'];?>"><?=$page['name'];?></option>
            <?php
            }
            ?>
        </select>

    Post Title : <input type="text" name="PostTitle" required>

    Post Body :
        <textarea name="PostBody" rows="20" cols="100"></textarea>

        <input type="submit" name="submit">
    </pre>
</form>
</body>
</html>

<?php
if(isset($_POST['submit']))
{
    $PageID=$_POST['PageID'];
    $PostTitle=$_POST['PostTitle'];
    $PostBody=$_POST['PostBody'];
    $PostBody= addslashes($PostBody);
    $qry=" INSERT INTO post ( `PageID`,`PostTitle`,`PostBody`) VALUES ($PageID,'$PostTitle','$PostBody')";

    $obj->putData($qry);
}??>
```

Modifiying page.php

```
<?php
include './header.php';
include './navbar.php';
?>

<?php
$pageID=$_GET['pageID'];
$result = $obj->getData("select post.ID,Name,PostTitle,PostBody from page LEFT JOIN post ON
page.ID=post.pageID WHERE page.ID=$PageID");

?>

<div class="container">
    <div class="row">
        <div class="col-sm-12">
            <h2 class="page-header"><?=$result[0][1];?></h2>

<?php
foreach ($result as $post) {
    ?>
        <a href="post.php?postID=<?=$post[0];?>"><h3><?=$post[2]; ?></h3> </a>
        <p>
            <?=substr($post[3],0,300);?> <a href=""></a>

        </p>
        <br>

    <?php
}
?>

    </div>
</div>

</div>

<?php
include './footer.php';
?>
```

Modifying post.php

```
<?php
include './header.php';
include './navbar.php';
?>
<?php
$postID=$_GET['postID'];
$result = $obj->getData("select * from page LEFT JOIN post ON page.ID=post.pageID WHERE
post.ID=$postID ");
?>

<div class="container">
  <div class="row">
    <div class="col-sm-12">
      <h2><?=$result[0]['PostTitle'];?></h2>
      <small class="pull-right">
        <a href="/">Home</a> > <?=$result[0]['Name'];?>
      </small>
      <br><br>

      <?php
      foreach ($result as $post) {
        ?>
        <p>
          <?=$post['PostBody'];?>
        </p>
      <?php
      }
      ?>

    </div>
  </div>
</div>

<?php
include './footer.php';
?>
```

API Development

Install libraries in python

```
sudo apt-get update
sudo apt-get install python-pip
sudo -H pip install --upgrade pip
```

```
sudo -H pip install PyMySQL
sudo -H pip install flask
```

Connection.py # Database connection class

```
import pymysql

HOST='localhost'
UserName='root'
PassWord='root'
Database='cms'
class Connection:

    def __init__(self):
        try:
            self.connection=pymysql.connect(HOST,UserName,PassWord,Database)
        except:
            print ("Connection Error!!!!")

    def select(self,table,column,filters):

        try:
            self.cursor = self.connection.cursor()
            self.cursor.execute("select "+ column +" from "+table+" where "+filters)
            return self.cursor
        except IOError as e:
            print format(e.errno, e.strerror)
```

api.py

```
from flask import Flask, request
from Connection import Connection
import json

app=Flask(__name__)
DBConnection=Connection()

@app.route('/')
def index():
    return "<h3>Welcome to API Service for Content Management System.</h3>"

@app.route('/page',methods=['GET'])
def getPage():
    if request.method == 'GET':
        cursor=DBConnection.select('page',' * ',' 1 ');
        results = [{'PageID': row[0], 'Name': row[1] ,
                    'Description':row[2],
                    'created_at':str(row[3])}
                    for row in cursor.fetchall()]
        return json.dumps(results)

@app.route('/post/<int:post_id>',methods=['GET'])
def getPost(post_id):
    if request.method == 'GET':
        cursor=DBConnection.select('post',' * ',' PageID='+str(post_id));
        results = [{'PostID': row[0],
                    'PostTitle': row[2],
                    'PostBody':row[3],
                    'created_at':str(row[4])}
                    for row in cursor.fetchall()]
        return json.dumps(results)

if __name__=='__main__':
    app.run(host='0.0.0.0',debug=True)
```

Execute :
python api.py