Underneath will be a selection of the PHP code.

Included will be Functions.php (where all the main processing goes on for the script), constants.php (to show more functions and system constants), login.php (to show the login procedure), settings.php (to show all the settings that you can change as a user) and scrape.php (to show the procedure for outputting and formatting the scraped data).

The rest of the code can be seen in PHP code final.zip, (<https://moodle.essex.ac.uk/pluginfile.php/323269/mod_data/content/97950/PHP%20code%20final.zip>)

########################## FUNCTIONS.PHP ##############################

<?php

include'constants.php';

if (session\_status() == PHP\_SESSION\_NONE) {

session\_start();

}

//used to check if session has been setup by user before hand

function checksession($userid,$con){

$site = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT website FROM Project WHERE owner\_project='$userid'")) ['website'];

if($site!=null){

$\_SESSION["ScrapeURL"] = $site;

header('Location:home.php');

}

else{

header('Location:createsession.php');

}

}

//used to check the url that the user inputs, this checks if it is a valid hotelreview

function checkurl($url){

if (strpos($url,'http://www.tripadvisor.co.uk/Hotel\_Review-') !== false) {

return true;

} else {

return false;

}

}

//checks if admin is logged in, if not, page goes back to login

function checkadmin($userid,$con){

$admin = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT admin\_id FROM GlobalSettings WHERE setup\_id=1")) ['admin\_id'];

if ($userid == $admin){return true;}

else{return false;}

}

//checks users login and verifys the PW hash

if (isset($\_POST['login'])) {

if($\_POST['email']!='' and $\_POST['password']!=''){

$email=$\_POST["email"]; $password=$\_POST["password"];

if (pwcheck($password,mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT passwordHash FROM Owner WHERE email='$email'")) ['passwordHash'])==1){

$\_SESSION["error"]="none";

$que=mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT ownerId FROM Owner WHERE email='$email'"));

$userid=$que['ownerId'];

$\_SESSION["userid"]=$userid;

$\_SESSION["email"]=$email;

if (checkadmin($userid,$con)){

$\_SESSION["admin"]=true;

header('Location:home.php');

}

else{

$\_SESSION["admin"]=false;

checksession($userid,$con);

}

}

else{

$\_SESSION["error"]="nomatch";

header("Location:login.php");

}

}

else{$\_SESSION["error"]="fieldcheck";header("Location:login.php");}

}

//redirects users to the registry page

if (isset($\_POST['registryform'])) {header("Location:registry.php");}

//registers the users on the DB, does all the appropriate checks.

if (isset($\_POST['register'])) {

if($\_POST['email']!='' and $\_POST['password']!=''){

$email=$\_POST["email"]; $password=$\_POST["password"];

$query=mysqli\_num\_rows(mysqli\_query($con,"SELECT email FROM Owner WHERE email='$email'"));

if ($query==0){$password=pwhash($password); mysqli\_query($con,"INSERT INTO Owner (email,passwordHash) VALUES ('$email','$password' )");

$\_SESSION["userid"]=mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT ownerId FROM Owner WHERE email=$email"))['ownerId'];

$\_SESSION["error"]="new";

header('Location:login.php');

}

else if($query!=0){$\_SESSION["error"]="emailexist"; header('Location:registry.php');}

}

else{$\_SESSION["error"]="fieldcheck";header('Location:registry.php');}

}

//changes password

if (isset($\_POST['changepw'])) {

if($\_POST['password1']!='' and $\_POST['password2']!='' and $\_POST['password3']!=''){

$password1=$\_POST["password1"]; $password2=$\_POST["password2"]; $password3=$\_POST["password3"]; $email=$\_SESSION["email"];

if ($password2 != $password3){$\_SESSION["error"]="newpwmatch"; header("Location:settings.php"); }

else if (pwcheck($password1,mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT passwordHash FROM Owner WHERE email='$email'")) ['passwordHash'])!=1){

$\_SESSION["error"]="oldpwmatch";

header('Location:settings.php');

}

else{$hash=pwhash($password2);

mysqli\_query($con,"UPDATE Owner SET passwordHash='$hash' WHERE email='$email'");

$\_SESSION["error"]="pwupdated";

header("Location:settings.php");

}

}

else{$\_SESSION["error"]="pwsnotthere";header("Location:settings.php");}

}

//adds the url to the DB in the correct location

if (isset($\_POST['addurl'])) {

if(checkadmin($\_SESSION["userid"],$con)==true){

header('Location:home.php');

}

else{

$URL=$\_POST["URL"];

if ($URL!=''){

if (checkurl($URL)==true){

$id=$\_SESSION["userid"];

mysqli\_query($con,"INSERT INTO Project (website,owner\_project) VALUES ('$URL','$id')");

checksession($id,$con);

}

else{$\_SESSION["error"]="invalidurlformat";

header('Location:createsession.php');}

}

else{

$\_SESSION["error"]="invalidurl";

header('Location:createsession.php');

}

}

}

//changes the url, used when user changes their url

if (isset($\_POST['changeurl'])) {

$URL=$\_POST["newurl"];

$id=$\_SESSION["userid"];

if ($URL == mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT website FROM Project WHERE owner\_project='$id'")) ['website']){

$\_SESSION["error"]="sameurl";

header('Location:settings.php');

}

else if (checkurl($URL) == false){

$\_SESSION["error"]="invalidurl1";

header('Location:settings.php');

}

else if ($URL!=''){

mysqli\_query($con,"UPDATE Project SET website='$URL' WHERE owner\_project='$id'");

$\_SESSION["error"]="updatedurl";

$\_SESSION["ScrapeURL"] = $URL;

header('Location:settings.php');

}

}

//changes the url of a specific user, this is the admin version of changeurl

if (isset($\_POST['changeuserurl'])) {

$URL=$\_POST["newurl1"];

$id=$\_POST["emailchoice"];

$id=mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT ownerId FROM Owner WHERE email='$id'")) ['ownerId'];

if ($id=='na'){

$\_SESSION["error"]="emailselect";

header('Location:settings.php');

}

else if ($URL == mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT website FROM Project WHERE owner\_project='$id'")) ['website']){

$\_SESSION["error"]="sameurl1";

header('Location:settings.php');

}

else if (checkurl($URL) == false){

$\_SESSION["error"]="invalidurl1";

header('Location:settings.php');

}

else if($URL!=''){

mysqli\_query($con,"UPDATE Project SET website='$URL' WHERE owner\_project='$id'");

$\_SESSION["error"]="updatedurl1";

header('Location:settings.php');

}

}

//this is used then the admin changes system settings, it finds what form inputs are used and sets them in the db and success messages.

if (isset($\_POST['changeadminsettings'])) {

if (isset($\_POST['reset'])){

mysqli\_query($con,"UPDATE GlobalSettings SET loop\_timeout=600,sleep\_time=5,database\_write\_quota=5 ");

$\_SESSION["error"]="resetDBsettings";

header('Location:settings.php');

}

else{

if($\_POST['looptimeout']!=''){

$q = $\_POST['looptimeout'];

mysqli\_query($con,"UPDATE GlobalSettings SET loop\_timeout=$q ");

$\_SESSION["error"]="looptime";

}

if($\_POST['sleeptime']!=''){

$q = $\_POST['sleeptime'];

mysqli\_query($con,"UPDATE GlobalSettings SET sleep\_time=$q ");

if($\_SESSION["error"]=="looptime"){

$\_SESSION["error"].="sleeptime";

}

else{

$\_SESSION["error"]="sleeptime";

}

}

if($\_POST['writequota']!=''){

$q = $\_POST['writequota'];

mysqli\_query($con,"UPDATE GlobalSettings SET database\_write\_quota=$q");

if(strpos($\_SESSION["error"],"looptime") !== false || strpos($\_SESSION["error"],"sleeptime") !== false){

$\_SESSION["error"].="writequota";

}

else{

$\_SESSION["error"]="writequota";

}

}

header('Location:settings.php');

}

}

//this is used when the user chooses to view data already stored in the db about their hotel.

if (isset($\_POST['old'])){

$userid = $\_SESSION['userid'];

$s = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT sesion\_id FROM SesionHasProject JOIN Project ON SesionHasProject.project\_id = Project.projectId WHERE owner\_project='$userid'")) ['sesion\_id'];

$\_SESSION['scanview']=true;

$\_SESSION['sesion']=$s;

header('Location:scrape.php');

}

//this is used when the admin chooses to view data already stored in the db about a user hotel.

if (isset($\_POST['showuserhotel'])){

$email = $\_POST['emailchoice'];

$userid = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT ownerId FROM Owner WHERE email='$email'")) ['ownerId'];

$\_SESSION['usersid'] = $userid;

$s = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT sesion\_id FROM SesionHasProject JOIN Project ON SesionHasProject.project\_id = Project.projectId WHERE owner\_project='$userid'")) ['sesion\_id'];

$\_SESSION['scanview']=true;

$\_SESSION['sesion']=$s;

header('Location:scrape.php');

}

//used when the user refreshes data in the db about their hotel

if (isset($\_POST['new'])){

$id = $\_SESSION["userid"];

$pid = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT projectId FROM Project WHERE owner\_project='$id'")) ['projectId'];

mysqli\_query($con,"UPDATE Project SET last\_scan=null WHERE projectId='$pid'");

$lasttime = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT \* FROM Sesion WHERE projectId='$pid' ORDER BY start\_time DESC LIMIT 1"));

$checklaststatus = $lasttime ['status'];

//checks if user has unfinished scans in db, if they do, loading page is loaded, this stops system overload, else, new scan started

if($checklaststatus == 'p' || $checklaststatus == 's'){

$\_SESSION['sesion']=$lasttime ['id'];

$\_SESSION['loading'] = true;

$\_SESSION['startscrape']=true;

header('Location:loading.php');

}

else{

mysqli\_query($con,"INSERT INTO Sesion (start\_time,projectId) VALUES (NOW(),$pid)");

$s = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT id FROM Sesion ORDER BY start\_time DESC LIMIT 1")) ['id'];

mysqli\_query($con,"DELETE FROM SesionHasProject WHERE project\_id='$pid'");

mysqli\_query($con,"INSERT INTO SesionHasProject VALUES ($s,$pid)");

shell\_exec("/var/www/html/py/scrap.py ".$s ." > /dev/null 2>/dev/null &");

$\_SESSION['sesion']=$s;

$\_SESSION['loading'] = true;

$\_SESSION['startscrape']=true;

header('Location:loading.php');

}

}

//this is used when the admin deletes the user

if (isset($\_POST['removeuser'])){

$email = $\_POST['emailchoice'];

$id= mysqli\_fetch\_assoc(mysqli\_query($con, "SELECT ownerId FROM Owner WHERE email='$email'"))['ownerId'];

mysqli\_query($con,"DELETE FROM Project WHERE owner\_project='$id'");

mysqli\_query($con,"DELETE FROM Owner WHERE email='$email'");

$\_SESSION["error"]="removeduser";

header('Location:settings.php');

}

?>

######################## CONSTANTS.PHP ##########################

<?php

//max execution time set for php page before error

ini\_set('max\_execution\_time', 300);

//default database connection settings are stored here, this makes it easier to start connection.

$con=mysqli\_connect("localhost","root","trip","Reviews");

if (mysqli\_connect\_errno($con))

{

echo "Failed to connect: " . mysqli\_connect\_error();

}

//used to hash the password

function pwhash($password){

$hash=password\_hash($password,PASSWORD\_DEFAULT);

return $hash;

}

//used to check the password

function pwcheck($password,$hashed){

$hashcheck=password\_verify($password,$hashed);

return $hashcheck;

}

//used to check the login of the user, if no one is logged in, login screen shown.

function checklogin(){

if($\_SESSION["userid"]==null){

header('Location:login.php');

}

}

?>

######################### LOGIN.PHP ##############################

<!DOCTYPE html>

<html lang="en"><head><meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<meta name="description" content="Website Scraper">

<meta name="author" content="Group H">

<link rel="icon" href="favicon.ico">

<title>Hotel review scraper</title>

<!-- Bootstrap core CSS -->

<link href="./css/bootstrap.min.css" rel="stylesheet">

<!-- Custom styles for this template -->

<link href="./css/style.css" rel="stylesheet">

<!-- Just for debugging purposes. Don't actually copy these 2 lines! -->

<!--[if lt IE 9]><script src="../../js/ie8-responsive-file-warning.js"></script><![endif]-->

<script src="./js/ie-emulation-modes-warning.js"></script><style type="text/css"></style>

<!-- HTML5 shim and Respond.js for IE8 support of HTML5 elements and media queries -->

<!--[if lt IE 9]>

<script src="https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.js"></script>

<script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>

<![endif]-->

</head>

<body>

<nav class="navbar navbar-inverse navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button type="button" class="navbar-toggle collapsed" data-toggle="collapse" data-target="#navbar" aria-expanded="false" aria-controls="navbar">

<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">Group H - Review Scraper</a>

</div>

<div id="navbar" class="collapse navbar-collapse">

<ul class="nav navbar-nav">

<li class="disabled"><a>Introduction</a></li>

<li class="disabled"><a>Scrape!</a></li>

<li class="disabled"><a>Settings</a></li>

<li class="disabled"><a>Project Info</a></li>

<li class="disabled"><a>Licensing</a></li>

</ul>

</div>

</div>

</nav>

<div class="container">

<div class="starter-template">

<h1>Login</h1>

<p class="lead">Please login to use this system:</p>

<form role="form" action='functions.php' method='post'>

<div class="form-group">

<label for="email">Email:</label>

<input type="email" class="form-control" name="email" placeholder="Enter email">

</div>

<div class="form-group">

<label for="pwd">Password:</label>

<input type="password" class="form-control" name="password" placeholder="Enter password">

</div>

<button type="login" name="login" class="btn btn-default">Login</button>

<button type="register" name="registryform" class="btn btn-default">Not a member?</button>

</form>

<?php //error checks//

session\_start();

if (isset ($\_SESSION["error"])){

if($\_SESSION["error"]=="nomatch"){

$\_SESSION["error"]="none";

echo("<span style='color: red'>Please enter the correct password.</span>");

}

elseif($\_SESSION["error"]=="fieldcheck"){

$\_SESSION["error"]="none";

echo("<span style='color: red'>Please fill in all the fields.</span>");

}

}

?>

</div>

</div>

<!-- Bootstrap core JavaScript

================================================== -->

<!-- Placed at the end of the document so the pages load faster -->

<script src="./js/jquery.min.js"></script>

<script src="./js/bootstrap.min.js"></script>

<!-- IE10 viewport hack for Surface/desktop Windows 8 bug -->

<script src="./js/ie10-viewport-bug-workaround.js"></script>

</body></html>

###################### SETTINGS.PHP ##############################

<!DOCTYPE html>

<?php

session\_start();

include 'constants.php';

checklogin();

?>

<html lang="en"><head><meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<meta name="description" content="Website Scraper">

<meta name="author" content="Group H">

<link rel="icon" href="favicon.ico">

<title>Hotel review scraper</title>

<!-- Bootstrap core CSS -->

<link href="./css/bootstrap.min.css" rel="stylesheet">

<!-- Custom styles for this template -->

<link href="./css/style.css" rel="stylesheet">

<!-- Just for debugging purposes. Don't actually copy these 2 lines! -->

<!--[if lt IE 9]><script src="../../js/ie8-responsive-file-warning.js"></script><![endif]-->

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<script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>

<![endif]-->

<script type="text/javascript">

var hook = true;

window.onbeforeunload = function() {

if (hook) {

return "Please log out first"

}

}

function unhook() {

hook=false;

}

function bypass(){

unhook();

}

</script>

</head>

<body>

<nav class="navbar navbar-inverse navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button type="button" class="navbar-toggle collapsed" data-toggle="collapse" data-target="#navbar" aria-expanded="false" aria-controls="navbar">

<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">Group H - Review Scraper</a>

</div>

<div id="navbar" class="collapse navbar-collapse">

<ul class="nav navbar-nav">

<li class="inactive"><a onclick="bypass()" href="home.php">Introduction</a></li>

<li class="inactive"><a onclick="bypass()" href="scrape.php">Scrape!</a></li>

<li class="inactive"><a onclick="bypass()" href="project\_info.php">Project Info</a></li>

<li class="inactive"><a onclick="bypass()" href="license.php">Licensing</a></li>

</ul>

<ul class="nav navbar-nav navbar-right">

<li class="active"><a onclick="bypass()" href="settings.php"><span class="glyphicon glyphicon-cog"></span> Settings</a></li>

<li class="inactive"><a onclick="bypass()" href="logout.php"><span class="glyphicon glyphicon-log-out"></span> Logout</a></li>

</ul>

</div>

</div>

</nav>

<div class="container">

<div class="starter-template">

<h1>Settings</h1>

</div>

<div class="row">

<div class="col-sm-4">

<h3>Change Account Settings</h3>

<u><b>Change password</b></u><br><br>

<form role="form" action='functions.php' method='post'>

<div class="form-group">

<label for="pwd">Current password:</label>

<input type="password" class="form-control" name="password1" placeholder="Enter current password"><br>

<label for="pwd">New password:</label>

<input type="password" class="form-control" name="password2" placeholder="Enter new password"><br>

<label for="pwd">Confirm new password:</label>

<input type="password" class="form-control" name="password3" placeholder="Confirm new password">

</div>

<button type="update" name="changepw" onclick="bypass()" class="btn btn-default">Update Password</button>

</form>

<?php //error checks//

if (isset ($\_SESSION["error"])){

if($\_SESSION["error"]=="pwsnotthere"){

$\_SESSION["error"]="none";

echo("<span style='color: red'>Please fill in all the fields.</span>");

}

else if($\_SESSION["error"]=="oldpwmatch"){

$\_SESSION["error"]="none";

echo("<span style='color: red'>Please make sure the old password is correct.</span>");

}

else if($\_SESSION["error"]=="nopwmatch"){

$\_SESSION["error"]="none";

echo("<span style='color: red'>Please make sure the new passwords match.</span>");

}

else if($\_SESSION["error"]=="pwupdated"){

$\_SESSION["error"]="none";

echo("<span style='color: green'>Password updated.</span>");

}

}

?>

</div>

<?php

// if the admin is not logged in, normal user settings shown, these inc, above pw change, and url change

if ($\_SESSION["admin"]==false){

?>

<div class="col-sm-4">

<h3>Change Hotel Settings</h3>

<B>Your project is setup with URL:</B> <br>

<?=$\_SESSION["ScrapeURL"]; ?><br><br>

<u><b>Change TripAdvisor URL</b></u><br><br>

<form role="form" action='functions.php' method='post'>

<div class="form-group">

<label >New TripAdvisor URL:</label>

<input type="text" class="form-control" name="newurl" placeholder="Paste URL here">

</div>

<button type="update" name="changeurl" onclick="bypass()" class="btn btn-default">Change URL</button>

</form>

<?php //error checks//

if (isset ($\_SESSION["error"])){

if($\_SESSION["error"]=="invalidurl"){

$\_SESSION["error"]="none";

echo("<span style='color: red'>Please enter a valid TripAdvisor URL.</span>");

}

else if($\_SESSION["error"]=="sameurl"){

$\_SESSION["error"]="none";

echo("<span style='color: red'>Please enter a different TripAdvisor URL.</span>");

}

else if($\_SESSION["error"]=="updatedurl"){

$\_SESSION["error"]="none";

echo("<span style='color: green'>URL updated.</span>");

}

}

?>

</div>

<div class="col-sm-4">

<h3>Helpful tips about settings</h3>

<br><u><b>Passwords</b></u><br>

When changing your password, use a password that is suitably secure and memorable.

<br>

If you forget your password, please contact the site admin.

<br><br><u><b>Changing website URL</b></u><br>

When you change the url of your hotel, you must submit a valid, active URL from the current TripAdvisor website. When your URL is updated, all previously saved data will be removed.

</div>

<?php

}

// if the admin is logged in, system settings shown, these inc,pw change, any user url change and system setting change

else if ($\_SESSION["admin"]==true){

?>

<div class="col-sm-4">

<h3>Change Hotel Settings</h3>

<u><b>Change a users TripAdvisor URL</b></u><br><br>

<form role="form" action='functions.php' method='post'>

<div class="form-group">

<label >Select user via Email:</label>

<select class="form-control" name="emailchoice">

<option value='na'>Select an email</option>

<?php

$user=$\_SESSION["userid"];

$emails = mysqli\_fetch\_all(mysqli\_query($con,"SELECT ownerId,email FROM Owner WHERE ownerId>0"));

foreach($emails as $row){

echo('<option>');

echo $row[1];

echo('</option>');

}?>

</select><br>

<label >New TripAdvisor URL:</label>

<input type="text" class="form-control" name="newurl1" placeholder="Paste URL here">

</div>

<button type="update" name="changeuserurl" onclick="bypass()" class="btn btn-default">Change URL</button>

</form>

<?php //error checks//

if (isset ($\_SESSION["error"])){

if($\_SESSION["error"]=="invalidurl1"){

$\_SESSION["error"]="none";

echo("<span style='color: red'>Please enter a valid TripAdvisor URL.</span>");

}

else if($\_SESSION["error"]=="sameurl1"){

$\_SESSION["error"]="none";

echo("<span style='color: red'>Please enter a different TripAdvisor URL.</span>");

}

else if($\_SESSION["error"]=="emailselect"){

$\_SESSION["error"]="none";

echo("<span style='color: red'>Please select an email.</span>");

}

else if($\_SESSION["error"]=="updatedurl1"){

$\_SESSION["error"]="none";

echo("<span style='color: green'>URL updated.</span>");

}

}

?>

<br><br><u><b>Remove a user from the system</b></u><br><br>

<form role="form" action='functions.php' method='post'>

<div class="form-group">

<label >Select user via Email:</label>

<select class="form-control" name="emailchoice">

<option value='na'>Select an email</option>

<?php

$user=$\_SESSION["userid"];

$emails = mysqli\_fetch\_all(mysqli\_query($con,"SELECT ownerId,email FROM Owner WHERE ownerId>0"));

foreach($emails as $row){

echo('<option>');

echo $row[1];

echo('</option>');

}?>

</select><br>

<button type="update" name="removeuser" onclick="bypass()" class="btn btn-default">Remove user</button>

</form></div>

<?php //error checks//

if (isset ($\_SESSION["error"])){

if($\_SESSION["error"]=="removeduser"){

$\_SESSION["error"]="none";

echo("<span style='color: green'>User removed.</span>");

}

}

?>

</div>

<div class="col-sm-4">

<h3>Admin only settings</h3>

<u><b>Change global settings for data analysis</b></u><br><br>

<form role="form" action='functions.php' method='post'>

<div class="form-group">

<label >Loop Timeout:</label>

<input type="number" class="form-control" name="looptimeout" placeholder="loop\_timeout"><br>

<label >Sleep Time:</label>

<input type="number" class="form-control" name="sleeptime" placeholder="sleep\_time"><br>

<label >Write Quota:</label>

<input type="number" class="form-control" name="writequota" placeholder="database\_write\_quota">

<div class="checkbox">

<label><input type="checkbox" value="reset" name="reset">Reset to standard - (loop=600, sleep=5, database=5)</label>

</div>

</div>

<button type="update" name="changeadminsettings" onclick="bypass()" class="btn btn-default">Change settings</button>

</form>

<?php //error checks//

if (isset ($\_SESSION["error"])){

if($\_SESSION["error"]=="resetDBsettings"){

$\_SESSION["error"]="none";

echo("<span style='color: green'>System global settings have been reset.</span>");

}

if(strpos($\_SESSION["error"],"looptime") !== false ){

echo("<span style='color: green'>Loop time has been changed.</span><br>");

}

if(strpos($\_SESSION["error"],"sleeptime") !== false ){

echo("<span style='color: green'>Sleep time has been changed.</span><br>");

}

if(strpos($\_SESSION["error"],"writequota") !== false ){

echo("<span style='color: green'>Write quota has been changed.</span>");

}

$\_SESSION["error"]="none";

}

?>

</div>

<?php } ?>

</div>

</div>

<!-- Bootstrap core JavaScript

================================================== -->

<!-- Placed at the end of the document so the pages load faster -->

<script src="./js/jquery.min.js"></script>

<script src="./js/bootstrap.min.js"></script>

<!-- IE10 viewport hack for Surface/desktop Windows 8 bug -->

<script src="./js/ie10-viewport-bug-workaround.js"></script>

</body></html>

####################### SCRAPE.PHP #################################

<!DOCTYPE html>

<?php

session\_start();

include 'constants.php';

checklogin();

?>

<html lang="en"><head><meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<meta name="description" content="Website Scraper">

<meta name="author" content="Group H">

<link rel="icon" href="favicon.ico">

<title>Hotel review scraper</title>

<!-- Bootstrap core CSS -->

<link href="./css/bootstrap.min.css" rel="stylesheet">

<!-- Custom styles for this template -->

<link href="./css/style.css" rel="stylesheet">

<!-- Just for debugging purposes. Don't actually copy these 2 lines! -->

<!--[if lt IE 9]><script src="../../js/ie8-responsive-file-warning.js"></script><![endif]-->

<script src="./js/ie-emulation-modes-warning.js"></script><style type="text/css"></style>

<!-- HTML5 shim and Respond.js for IE8 support of HTML5 elements and media queries -->

<!--[if lt IE 9]>

<script src="https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.js"></script>

<script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>

<![endif]-->

<script type="text/javascript">

var hook = true;

window.onbeforeunload = function() {

if (hook) {

return "Please log out first"

}

}

function unhook() {

hook=false;

}

function bypass(){

unhook();

}

function limitReviews() {

var dfrom = document.getElementById("dfrom").value;

var dto = document.getElementById("dto").value;

var table = document.getElementById("rws");

var childPorducts = table.children;

for(var i = 1; i < childPorducts.length; i++){

var deeperChild = childPorducts[i].children;

if(dfrom<=i && dto>=i){

childPorducts[i].style.display = "";

}

else{childPorducts[i].style.display = "none";}

}

}

</script>

</head>

<body onload="limitDates()">

<nav class="navbar navbar-inverse navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button type="button" class="navbar-toggle collapsed" data-toggle="collapse" data-target="#navbar" aria-expanded="false" aria-controls="navbar">

<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">Group H - Review Scraper</a>

</div>

<div id="navbar" class="collapse navbar-collapse">

<ul class="nav navbar-nav">

<li class="inactive"><a onclick="bypass()" href="home.php">Introduction</a></li>

<li class="active"><a onclick="bypass()" href="scrape.php">Scrape!</a></li>

<li class="inactive"><a onclick="bypass()" href="project\_info.php">Project Info</a></li>

<li class="inactive"><a onclick="bypass()" href="license.php">Licensing</a></li>

</ul>

<ul class="nav navbar-nav navbar-right">

<li class="inactive"><a onclick="bypass()" href="settings.php"><span class="glyphicon glyphicon-cog"></span> Settings</a></li>

<li class="inactive"><a onclick="bypass()" href="logout.php"><span class="glyphicon glyphicon-log-out"></span> Logout</a></li>

</ul>

</div>

</div>

</nav>

<div class="container">

<div class="starter-template">

<?php

if($\_SESSION['admin'] == true){

if (isset($\_SESSION["scanview"]) && $\_SESSION["scanview"]==true){

$\_SESSION["scanview"]=false;

echo '<FORM><button type="update" name="showuserhotel" onClick="bypass(),history.go(0)" class="btn btn-default">Show Reviews for another user</button></FORM>';

$id = $\_SESSION['usersid'];

$scrapestamp = $\_SESSION['sesion'];

$scrapetime = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT start\_time FROM Sesion WHERE id='$scrapestamp'"))['start\_time'];

$revs = mysqli\_fetch\_all(mysqli\_query($con,"SELECT \* FROM ScrapedReview JOIN Project on ScrapedReview.project\_id=Project.projectId WHERE owner\_project='$id'"));

$average = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT avg(rating) from ScrapedReview JOIN Project on ScrapedReview.project\_id=Project.projectId WHERE owner\_project='$id'"))['avg(rating)'];

$recent = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT date\_published from ScrapedReview JOIN Project on ScrapedReview.project\_id=Project.projectId WHERE owner\_project='$id' ORDER BY date\_published DESC LIMIT 1;"))['date\_published'];

$oldest = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT date\_published from ScrapedReview JOIN Project on ScrapedReview.project\_id=Project.projectId WHERE owner\_project='$id' ORDER BY date\_published ASC LIMIT 1;"))['date\_published'];

$one=0;$two=0;$three=0;$four=0;$five=0;

?>

<div class = 'column'>

<div class="col-md-4"><br>

<table class="table table-hover">

<thead>

<tr>

<th> Hotel statistics </th>

<th></th>

</tr>

</thead>

<tbody>

<tr>

<td>Average rating: </td>

<td><?=number\_format((float)$average,1,'.','') ?> </td>

</tr><tr>

<td>Reviews scraped: </td>

<td><?=count($revs)?></td>

</tr><tr>

<td>Scrape timestamp: </td>

<td><?=date('H:i:s d-m-Y', strtotime($scrapetime)-7200)?> </td>

</tr><tr>

<td>Most recent review: </td>

<td><?=$recent?> </td>

</tr><tr>

<td>Oldest review scraped: </td>

<td><?=$oldest?> </td>

</tr>

</tbody>

</table>

Rating percentage:

<div id="donutchart" style="width: 350px; height: 350px;"></div>

Rating count:

<div id="bottom\_x\_div" style="width: 350px; height: 350px;"></div>

</div>

</div>

<div class='column'>

<div class="col-md-8"><br>

<table class="table table-hover">

<thead>

<tr>

<th> Review title </th>

<th> Rating </th>

<th> Content </th>

<th> Date </th>

</tr>

</thead>

<tbody>

<tr>

<?php

foreach ($revs as $row){

echo('<tr>');

echo('<td>'. $row[8] .'</td>');

echo('<td>'. $row[4] .'</td>');

echo('<td>'. $row[3] .'</td>');

echo('<td>');

echo( date('d-m-Y',strtotime($row[7])));

echo('</td>');

echo('</tr>');

//get data for charts

if($row[4]==1){$one++;}

else if($row[4]==2){$two++;}

else if($row[4]==3){$three++;}

else if($row[4]==4){$four++;}

else if($row[4]==5){$five++;}

}

?>

</tr>

</tbody>

</table>

</div>

</div>

<?php

}

else{?>

<h3>Select a user to view their hotel stats</h3>

<form role="form" action='functions.php' method='post'>

<div class="form-group">

<label >Select user via Email:</label>

<select class="form-control" name="emailchoice">

<option value='na'>Select an email</option>

<?php

$user=$\_SESSION["userid"];

$emails = mysqli\_fetch\_all(mysqli\_query($con,"SELECT ownerId,email FROM Owner WHERE ownerId>0"));

foreach($emails as $row){

echo('<option>');

echo $row[1];

echo('</option>');

}?>

</select><br>

<button type="update" name="showuserhotel" onclick="bypass()" class="btn btn-default">Show Reviews for user</button>

</form></div>

<?php

}}

else{

if(isset($\_SESSION['loading']) && $\_SESSION['loading'] == true && $\_SESSION['admin'] == false){header('Location:loading.php');}

if(isset($\_SESSION["scanview"])==false && $\_SESSION['admin']==false){?>

<h1>Scrape!</h1>

<form class="form-horizontal" action='functions.php' method='post'>

<fieldset>

<legend>Do you wish to use older data, or to refresh the data in the database?</legend>

<?php

$userid = $\_SESSION["userid"];

$seshid = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT sesion\_id FROM SesionHasProject JOIN Project ON SesionHasProject.project\_id = Project.projectId WHERE owner\_project='$userid'")) ['sesion\_id'];

$stime = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT start\_time FROM Sesion WHERE id='$seshid'")) ['start\_time'];

$date = strtotime($stime);

if($date == strtotime("02:00:00 01-01-1970")){

echo("You have never used the system, click below to begin your first scan")?>

<br>

<div class="control-group">

<div class="controls">

<button id="button2id" name="new" class="btn btn-danger" onclick="bypass()">First time scan</button>

</div>

</div>

<?php }

else{

echo("<br>The Database was last updated at: <br>");

echo date('H:i:s d-m-Y', ($date -7200));

?><br>

<div class="control-group">

<div class="controls">

<button id="button1id" name="old" class="btn btn-success" onclick="bypass()">Use older data</button>

<button id="button2id" name="new" class="btn btn-danger" onclick="bypass()">Refresh database</button>

</div>

</div>

<?php } ?>

</fieldset>

</form>

<?php

}

else if($\_SESSION["scanview"]==true){

echo '<h2>Review analysis</h2>';

$id = $\_SESSION['userid'];

$scrapestamp = $\_SESSION['sesion'];

$scrapetime = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT start\_time FROM Sesion WHERE id='$scrapestamp'"))['start\_time'];

$revs = mysqli\_fetch\_all(mysqli\_query($con,"SELECT \* FROM ScrapedReview JOIN Project on ScrapedReview.project\_id=Project.projectId WHERE owner\_project='$id'"));

$average = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT avg(rating) from ScrapedReview JOIN Project on ScrapedReview.project\_id=Project.projectId WHERE owner\_project='$id'"))['avg(rating)'];

$recent = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT date\_published from ScrapedReview JOIN Project on ScrapedReview.project\_id=Project.projectId WHERE owner\_project='$id' ORDER BY date\_published DESC LIMIT 1;"))['date\_published'];

$oldest = mysqli\_fetch\_assoc(mysqli\_query($con,"SELECT date\_published from ScrapedReview JOIN Project on ScrapedReview.project\_id=Project.projectId WHERE owner\_project='$id' ORDER BY date\_published ASC LIMIT 1;"))['date\_published'];

$one=0;$two=0;$three=0;$four=0;$five=0;

?>

<div class = 'column'>

<div class="col-md-4"><br>

<table class="table table-hover">

<thead>

<tr>

<th> Hotel statistics </th>

<th></th>

</tr>

</thead>

<tbody>

<tr>

<td>Average rating: </td>

<td><?=number\_format((float)$average,1,'.','') ?> </td>

</tr><tr>

<td>Reviews scraped: </td>

<td><?=count($revs)?></td>

</tr><tr>

<td>Scrape timestamp: </td>

<td><?=date('H:i:s d-m-Y', strtotime($scrapetime)-7200)?> </td>

</tr><tr>

<td>Most recent review: </td>

<td><?=$recent?> </td>

</tr><tr>

<td>Oldest review scraped: </td>

<td><?=$oldest?> </td>

</tr>

</tbody>

</table>

Rating percentage:

<div id="donutchart" style="width: 350px; height: 350px;"></div>

Rating count:

<div id="bottom\_x\_div" style="width: 350px; height: 350px;"></div>

</div>

</div>

<br>

<form class="form-inline" style="margin-right: 1em;" name="pagination">

<label>Show Reviews From: </label><input type="number" style="width: 50px" id="dfrom" name="dfrom" value="0">

<label>To: </label><input type="number" style="width: 50px" id="dto" name="dto" value="50" >

<input type = "button"

onclick= "limitReviews()"

value="Limit Reviews">

</form>

<div class='column'>

<div class="col-md-8"><br>

<table class="table table-hover">

<thead>

<tr>

<th> Review title </th>

<th> Rating </th>

<th> Content </th>

<th> Date </th>

</tr>

</thead>

<tbody id="rws">

<tr>

<?php

foreach ($revs as $row){

echo('<tr>');

echo('<td>'. $row[8] .'</td>');

echo('<td>'. $row[4] .'</td>');

echo('<td>'. $row[3] .'</td>');

echo('<td>');

echo( date('d-m-Y',strtotime($row[7])));

echo('</td>');

echo('</tr>');

//get data for charts

if($row[4]==1){$one++;}

else if($row[4]==2){$two++;}

else if($row[4]==3){$three++;}

else if($row[4]==4){$four++;}

else if($row[4]==5){$five++;}

}

?>

</tr>

</tbody>

</table>

</div>

</div>

<?php } }

?>

</div>

</div>

<!-- Bootstrap core JavaScript

================================================== -->

<!-- Placed at the end of the document so the pages load faster -->

<script src="./js/jquery.min.js"></script>

<script src="./js/bootstrap.min.js"></script>

<!-- IE10 viewport hack for Surface/desktop Windows 8 bug -->

<script src="./js/ie10-viewport-bug-workaround.js"></script>

<!-- code for charts -->

<script type="text/javascript" src="https://www.google.com/jsapi"></script>

<script type="text/javascript">

google.load("visualization", "1", {packages:["corechart"]});

google.setOnLoadCallback(drawChart);

function drawChart() {

var data = google.visualization.arrayToDataTable([

['Ratings', 'user rating'],

['1 star', <?php echo $one; ?>],

['2 star', <?php echo $two; ?>],

['3 star', <?php echo $three; ?>],

['4 star', <?php echo $four; ?>],

['5 star', <?php echo $five; ?>],

]);

var options = {

width: 400,

pieHole: 0.3,

};

var chart = new google.visualization.PieChart(document.getElementById('donutchart'));

chart.draw(data, options);

}

google.load("visualization", "1.1", {packages:["bar"]});

google.setOnLoadCallback(drawStuff);

function drawStuff() {

var data = new google.visualization.arrayToDataTable([

['Ratings', 'User ratings'],

['1 star', <?php echo $one; ?>],

['2 star', <?php echo $two; ?>],

['3 star', <?php echo $three; ?>],

['4 star', <?php echo $four; ?>],

['5 star', <?php echo $five; ?>],

]);

var options = {

width: 250,

legend: { position: 'none' },

bars: 'vertical',

axes: { x: {0: { side: 'bottom', label: 'Review count'} } },

bar: { groupWidth: "100%" }

};

var chart = new google.charts.Bar(document.getElementById('bottom\_x\_div'));

chart.draw(data, options);

};

</script>

</body></html>