**Project: PHP & MySQL: Adventure Recommender for Developing Countries**

The project goal is to develop a database driven website for travel planning for people who prefer to travel to developing countries. The website is used to help a user interact with a database that holds geographic information about countries, cities and languages. The user should be able to enter a continent for the trip and a set of spoken languages. The web page should then displays a list of countries, which could be considered developing, to suggest destinations to the traveler.

The final project will include several files:

adventure.css <- This file is supplied in the files at CodersforCauses.com.

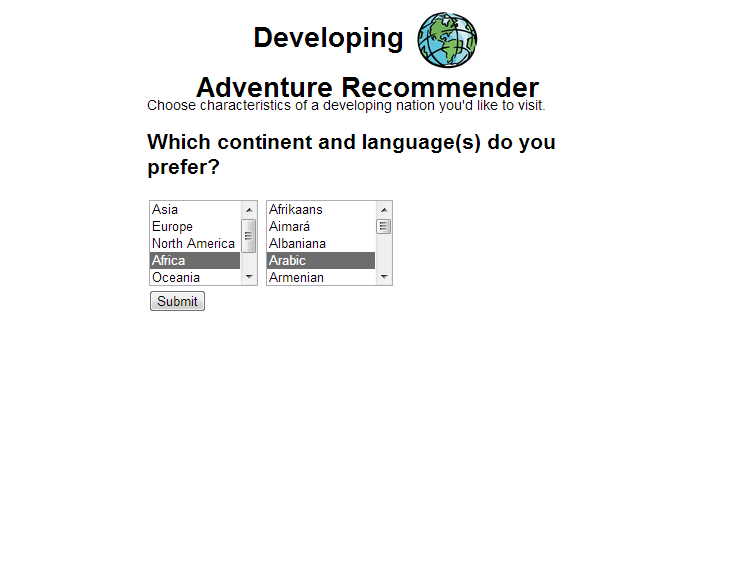
index.php <- 1st page—Creates web form for user to select continent & languages from all choices in database.

top.html <- included in index.php & recommendations.php for HTML & CSS information. This file is supplied in the files at CodersforCauses.com.

shared.php <-performs the database query using PDO (PHP data objects)& is shared by index.php & recommendations.php

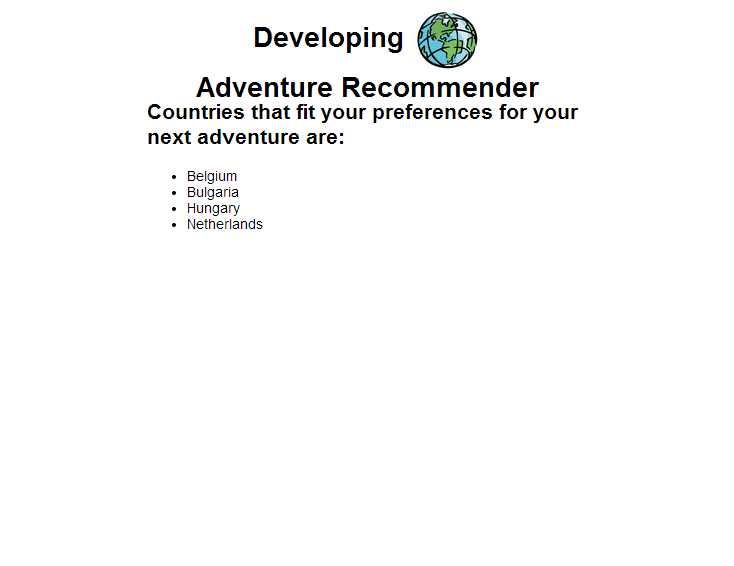
recommendations.php <-this file reads the query data, forms a new database query and outputs the results of the query as a web page.

world.jpg <- used in top.HTML. This file is supplied in the files at CodersforCauses.com.



***First Page:*** User should be able to select one continent and several languages.

This page is produced by index.php and used to gather query information to send to recommendation.php.

***Second Page:*** User will receive suggestions in developing countries.

This page is produced by recommendation.php

***Step 1:*** Prepare your workspace and files: Create a folder at JustHost for your project. Download the files supplied at CodersforCauses.com.

***Step 2:*** Create the first draft of file index.php

a. Include top.html and instructions to the user about how to use the website.

b. Present a form for your user to enter one continent (select from a drop-down menu of options) and several (i.e. an array) of languages.

c. For your first draft, simply add sample values.

***Step 3:*** Create the first draft of recommendations.php

a. Include top.html and a template to present results to your user.

b. Gather the values passed to this file by index.php and echo them to check your work.

***Step 4:*** Understand the database:

a. Tables with Fields:

i. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ii. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

iii. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. Queries (Test in phpMyAdmin):

i. Continent SQL Query: We need a list of the continents in our database to create the selection options for the form in index.php:

ii. Language SQL Query: We need a list of the languages (official languages!) in our database to create the selection options for the form in index.php:

iii. Country SQL Query: We need a selective query which is based on the user entered continent & language array to choose a list of countries for recommendations.php.

***Step 5:*** Create the (first ?) draft of shared.php. Use pdo\_example.php for help. The entire file should be used as a method that can be called from index.php and recommendation.php to perform queries. The method signature: function perform\_query($query) {}

***Step 6:*** Test the interaction of these files (could be a long step, so relax!!!)

***Step 7:*** Examine the fields which can be used to separate developing nations from developed nations. Possibilities to consider:

Population

GNP

Life Expectancy

Independence year

Government form

What are some ranges or options that would separate ‘developing’ from ‘developed’? Browse the database and do some research. Refine the SQL query:

***Step 8:*** Test & debug and congratulate yourself!!!