**Overview**

In this project, we are going to create a local search file on world map. We use PHP language for reading a CSV file and import an API, which find country names based on the user entry.

**Goals**

1. MVC on PHP project
2. Read and write on CSV file

**Task Description**

In this section, we are going to explain the tasks related to this project. The learning task is a table of all the required knowledge we need to learn before start the project. Then the Coding tasks or practical tasks will start.

Learning Task

We need to improve our knowledge about PHP and file reader in PHP before start the project. Then we go to find how to use JavaScript to autocomplete the form. Priorities divided to three sections; 1 is the highest and 3 in the lowest.

|  |  |  |  |
| --- | --- | --- | --- |
| Task Name | Estimated Hours | Priority | Real hour |
| Getting familiar with PHP | 4 | 1 | 6 |
| Getting familiar with CSV file reading in PHP | 3 | 1 | 3 |
| Familiarity with PHP MVC | 4 | 1 | 3 |
| Familiar with Object Oriented PHP | 4 | 2 | 4 |
| JavaScript Autocomplete | 2 | 3 | 3 |
| Function() in PHP | 2 | 2 | 3 |
| Debug in PHP | 4 | 3 | 4 |

Practical Task

In this section, we are going to create the task and distributing the project to the smaller units. It is very important to sync the commits in Git with the task, So at the end we will explain why we create different commits in master branch for few tasks at the same time. Priorities divided to three sections; 1 is the highest and 3 in the lowest.

|  |  |  |  |
| --- | --- | --- | --- |
| Task Name | Estimated Hours | Priority | Real hour |
| Create index page | 4 | 1 | 6 |
| Read the CSV file | 3 | 1 | 3 |
| (MVC) Implement Model | 4 | 1 | 4 |
| (MVC) Implement View | 4 | 1 | 4 |
| (MVC) Implement Controller | 4 | 1 | 4 |
| Import the API | 4 | 1 | 4 |
| Write on CSV | 4 | 1 | 8 |
| JavaScript autocomplete | 2 | 2 | 3 |
| Style CSS | 2 | 2 | 4 |
| MapGenerator Class in Model | 3 | 2 | 4 |
| Template PHP | 2 | 2 | 4 |

**Milestones**

1. Read the CSV file and represent it on the screen

This code is used to read the data from csv file and show all of its rows to the user.

$row = 1;

if (($handle = fopen("countries.csv", "r")) !== FALSE) {

     while (($data = fgetcsv($handle, 1000, ",")) !== FALSE) {

      $num = count($data);

        echo "<p> $num fields in line $row: <br /></p>\n";

        $row++;

        for ($c=0; $c < $num; $c++) {

            echo $data[$c] . "<br />\n";

        }

    }

    fclose($handle);

}

This is the default way to read all the csv files.

1. <Form> receiver in the same page

In this section the task is to create a php file that give an entry from the user and show it to another <div> to the user. In order to do that we use this code.

<html>

<head></head>

<body>

<form action="" method="post">

  Name of the Country: <input name="country" type="text" />

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

</form>

    <div style="position:center; margin:5cm">

<?php

  if (isset($\_POST['submit'])) {

    $countryinput = $\_POST['country'];

    echo "You are looking for the " . $countryinput . " ";

  }

?>    </div> </body> </html>

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1. MVC

In this section, we will define what MVC is and why it is important to implement this project in MVC forma.

1. Model

In the Model, we create MapGenerator Class, which has a function called rangeCSV.

1. View

In the View, we create two PHP file, template is dealing with the middle of page where we show the map and history of the countries searched. In addition, in the Content folder we have a file call Map that sow the map inside the div.

1. Controller

In Controller file we have 2 main function. templateShow() which dealing with view page and Map(). Actually controller is seating between Model and View.