Coding assignment for Liana Technologies

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Contents

1. Introduction

This document explain briefly my approach for realizing the assignment you asked me, on date 21 nov 2019. All the skills required in the assignment were implemented in the page, such as HTML, CSS, Javascript and PHP. I will add some example picture to make more clear all the process I went through. Let's start. -->

2. Cases and functionality

2.1 Case assignment 1: Responsive HTML page

In this first assignment it was asked to realize a responsive web page using HTML and CSS as basic skills. I also added some Javascript to get animated numbers and JQuery for the rss feeds.

HTML

The first operation to do with this assignment was to define the layout of the page with HTML, for this I used bootstrap 4.

In this picture is possible to see the top navbar code, using Bootstrap 4 library.

```
<nav id="head">
  <div class="wrap">
    <nav class="navbar navbar-expand-md navbar-light sticky-top">
      <div class="container-fluid">
        <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarResponsive1">
          <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse" id="navbarResponsive1">
          <ul class="navbar-nav ml-auto">
            <li class="nav-item">
              <a class="nav-link" href="https://www.lianatech.com/media.html" style="color: white;">News</a>
            </li>
            <li class="nav-item">
              <a class="nav-link" href="#" style="color: white;">Intranet</a>
            </li>
            <li class="nav-item">
              <div class="dropdown">
                <button class="btn btn-light btn-sm dropdown-toggle" type="button" id="dropdownMenu" data-toggl
                  In English
                </button>
                <div class="dropdown-menu" aria-labelledby="dropdownMenu">
                  <button class="dropdown-item" type="button">Suomeksi</button>
                </div>
              </div>
            </li>
          </ul>
        </div>
      </div>
    </nav>
  </div>
</nav>
```

CSS

With CSS I gave some color and style at the page.

This code helped me to realize the main picture using the scrolling effect (Parallax).

```css
.mainpic{
  /* The image used */
  background-image: url("https://cdn.pixabay.com/photo/2016/02/19/11/19/office-1209640_1280.jpg");

  /* Set a specific height */
  min-height: 500px;
  /*width: 1900px;*/
  height: 620px;

  /* Create the parallax scrolling effect */
  background-attachment: fixed;
  background-position: center;
  background-repeat: no-repeat;
  background-size: cover;
}
```

Javascript and JQuery

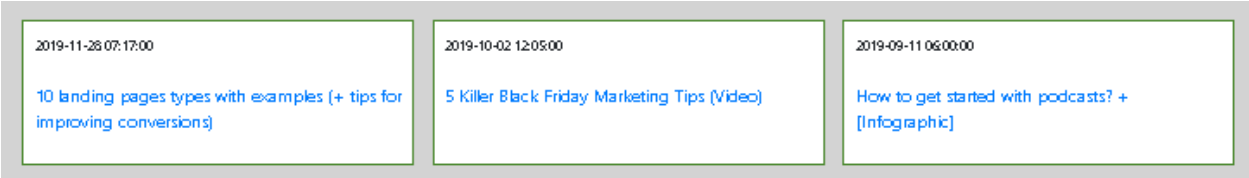
Javascript helped me to realize the animation in the *Client, Employees and Users* section and for fetching the RSS feeds.

```
//numbers animation
$('.count').each(function() {
  $(this).prop('Counter', 0).animate({
    Counter: $(this).text()
}, {
  duration: 2000,
  easing: 'swing',
  step: function(now) {
    $(this).text(Math.ceil(now));
    }
  });
});
```

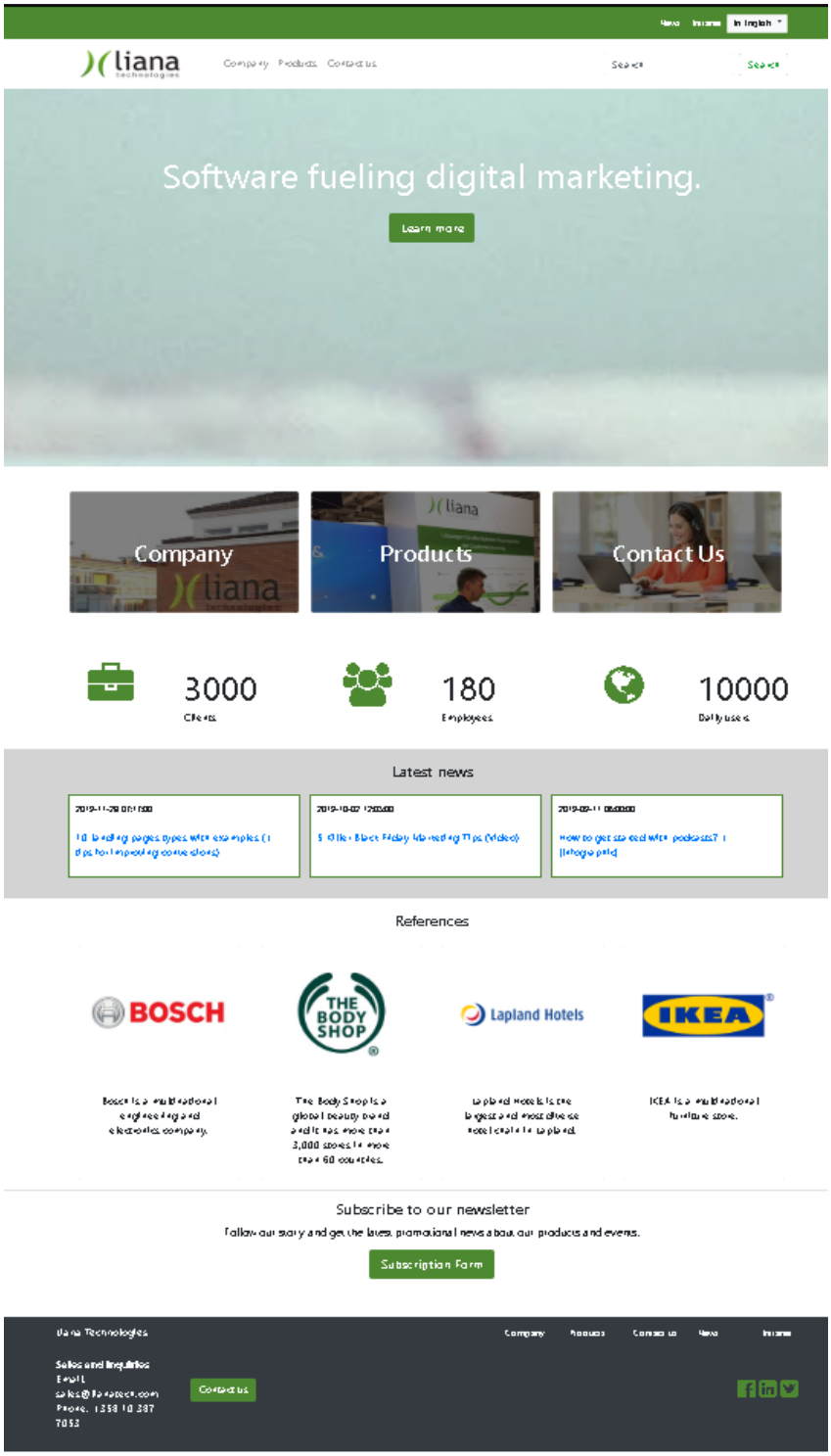
This is the code part for the RSS feeds section. I used JQuery to fetch the data thanks to the rss2json api.

```
//rss feed
var feedURL = "https://www.lianatech.com/blog.rss";
$.ajax({
  type: 'GET',
  url: "https://api.rss2json.com/v1/api.json?rss_url=" + feedURL,
  dataType: 'jsonp',
  success: function(data) {
    console.log(data);
    var item = data.items;

    document.getElementById("time1").innerHTML = item[0].pubDate;
    document.getElementById("title1").innerHTML += "<a href='"+item[0].link+"'>"+item[0].title+"</a>";

    document.getElementById("time2").innerHTML = item[1].pubDate;
    document.getElementById("title2").innerHTML += "<a href='"+item[1].link+"'>"+item[1].title+"</a>";

    document.getElementById("time3").innerHTML = item[2].pubDate;
    document.getElementById("title3").innerHTML += "<a href='"+item[2].link+"'>"+item[2].title+"</a>";
  }
});
```

RSS feeds accessible from the page (date and hyperlink)



Final result



2.2 Case assignment 2: Web form

In this second assignment, you expected me to realize a system which allows to collect email addresses (corporate email) with a web form.

I have been thinking (hopefully it was a good thought), to make this assignment integrated in the first one.

I made the form using HTML and CSS, Javascript for validate the input fields, and as asked PHP as server language.

I stored the corporate emails on Mysql database and Xampp helped to interpret and connect the parts.

HTML form

```
<form class="needs-validation" method="post" action="connect.php" novalidate>
  <div class="form-row">
    <div class="col-md-6 mb-3">
      <label for="validationCustom01">First name</label>
      <input type="text" class="form-control" id="validationCustom01" placeholder="First name" required>
      <div class="invalid-feedback">
        First name is required.
      </div>
    </div>
    <div class="col-md-6 mb-3">
      <label for="validationCustom02">Last name</label>
      <input type="text" class="form-control" id="validationCustom02" placeholder="Last name" required>
      <div class="invalid-feedback">
        Last name is required.
      </div>
    </div>
  </div>
  <div class="form-row">
    <div class="col-md-6 mb-3">
      <label for="validationEmail">Email</label>
      <input type="email" class="form-control" id="validationEmail" placeholder="Email" required>
      <div class="invalid-feedback">
        Please provide a valid email.
      </div>
    </div>
    <div class="col-md-6 mb-3">
      <label for="validationEmail">Corporate email</label>
      <input type="email" class="form-control" id="validationCorpoemail" name="corporateEmail" placeholder="Corporate email" required>
      <div class="invalid-feedback">
        Please provide a valid email.
      </div>
    </div>
  </div>
  <div class="form-row">
    <div class="col-md-6 mb-3">
      <label for="validationCustom03">City</label>
      <input type="text" class="form-control" id="validationCustom03" placeholder="City" required>
      <div class="invalid-feedback">
        Please provide a valid city.
      </div>
    </div>
    <div class="col-md-3 mb-3">
      <label for="validationCustom04">State</label>
      <input type="text" class="form-control" id="validationCustom04" placeholder="State" required>
      <div class="invalid-feedback">
        Please provide a valid state.
      </div>
    </div>
    <div class="col-md-3 mb-3">
      <label for="validationCustom05">Zip</label>
      <input type="text" class="form-control" id="validationCustom05" placeholder="Zip" required>
      <div class="invalid-feedback">
        Please provide a valid zip.
      </div>
    </div>
  </div>
  <div class="form-group">
    <div class="form-check">
      <input class="form-check-input" type="checkbox" value="" id="invalidCheck" required>
      <label class="form-check-label" for="invalidCheck">
        Agree to terms and conditions
      </label>
      <div class="invalid-feedback">
        You must agree before submitting.
      </div>
    </div>
  </div>
  <div class="modal-footer d-flex justify-content-center">
    <input type="submit" value="Submit" class="btn my-btn">
  </div>
</form>
```

Javascript validation

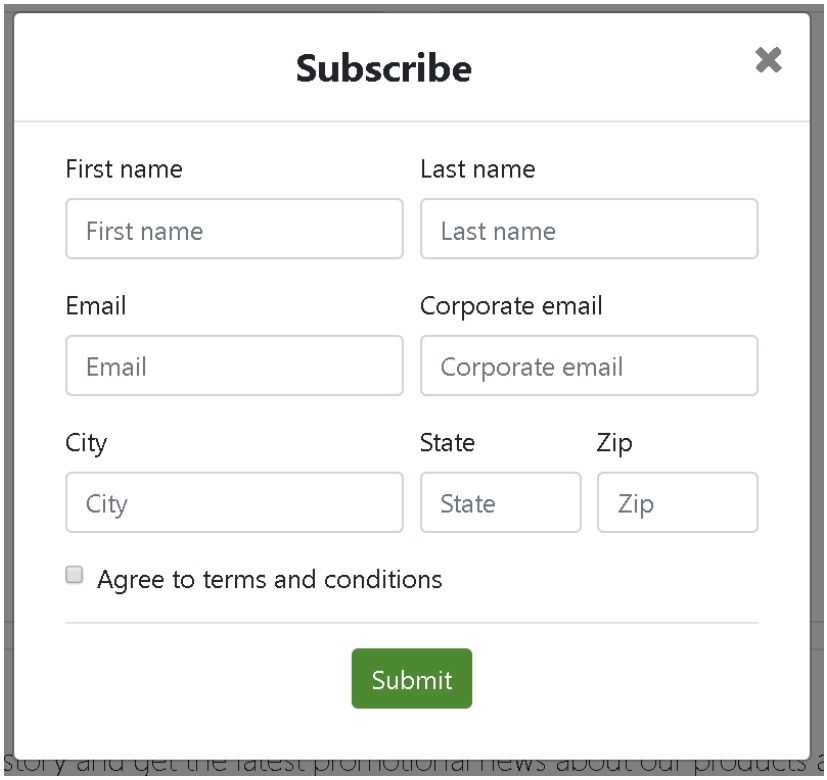
```javascript
// form validation
(function() {
  'use strict';
  window.addEventListener('load', function() {
    // Fetch all the forms we want to apply custom Bootstrap validation styles to
    var forms = document.getElementsByClassName('needs-validation');
    // Loop over them and prevent submission
    var validation = Array.prototype.filter.call(forms, function(form) {
      form.addEventListener('submit', function(event) {
        if (form.checkValidity() === false) {
          event.preventDefault();
          event.stopPropagation();
        }
        form.classList.add('was-validated');
      }, false);
    });
  }, false);
})();
```

PHP code for saving corporate email with unique user ID

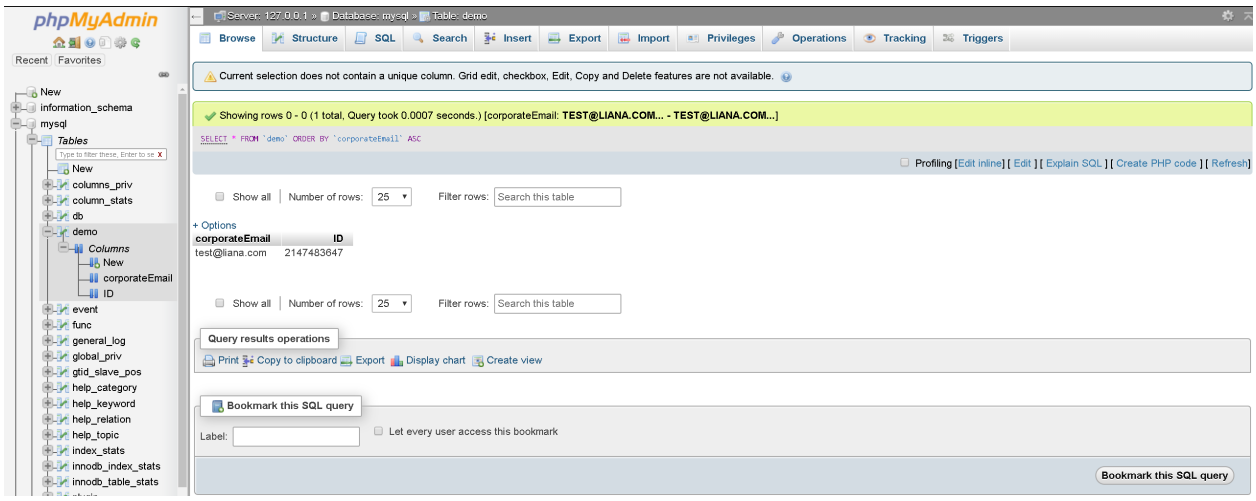
c: > xampp > htdocs > connect.php

```php
<?php
$corporateEmail = filter_input(INPUT_POST, 'corporateEmail');

if (!empty($corporateEmail)){
$host = "localhost";
$dbusername = "root";
$dbpassword = "";
$dbname = "mysql";
// Create connection
$conn = new mysqli ($host, $dbusername, $dbpassword, $dbname);
if (mysqli_connect_error()){
  die('Connect Error ('. mysqli_connect_errno() .') '
  . mysqli_connect_error());
}
else{
  $id = uniqid (rand(), true);
  $sql = "INSERT INTO demo (corporateEmail, ID)
  values ('$corporateEmail', '$id')";
if ($conn->query($sql)){
  echo "Thanks for subscribing!";
  header("refresh:3; url=index.html");
}
else{
  echo "Error: ". $sql ."
  ". $conn->error;
}
$conn->close();
}
}
else{
  echo "Email should not be empty";
die();
}

?>
```

Form image



Record stored on the database



3. Conclusions

The exercise has been interesting and funny to make. It took for me about 40h working on it for 10 days. It has been not that complicated so that I have been working on those kind of applications before. I found maybe a bit challenging the part where I had to connect the application to a database. It took a bit before finding in XAMPP the final solution.