

# Mountain Cottage

website

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# Introduction

The “Mountain Cottage” is a website intended to present the facilities of a nice mountain chalet suitable for different kinds of events. The main purpose is to help people who want to spend their vacation in order to decide whether they really want to book the cottage or not. Another aim of the website is to make the whole process of booking the cottage easier and faster for the customers.

The website was also made to help the owner of the cottage to easier promote his business to potential clients and is also a way in which the owner can communicate with his costumers.

# The structure of the website

The website consists of several pages on which the user can navigate via buttons and links. Each page is divided into a header which contains the logo and the menu and a footer which might contain contact details.

# Implementation details

In order to be able to do the website I used the following languages: HTML, CSS, JavaScript and PHP.

All the pages will be saved in one folder which has sub folders such as *assets* where we can find the images from the website and the CSS code, JavaScript code and also the Bootstrap code.

Mountain Cottage Front-end	11/26/2022 7:00 PM	File folder
css	11/26/2022 7:00 PM	File folder
img	11/26/2022 7:00 PM	File folder
js	11/26/2022 7:00 PM	File folder
vendor	11/26/2022 7:00 PM	File folder



HTML- (HyperText Markup Language) is a standard markup language for web page creation. It is used for creating and structuring sections, paragraphs, links and more, with the help of HTML elements (such as tags and attributes).

In this project I am using HTML for all pages of the website

.idea	11/26/2022 7:10 PM	File folder	
assets	11/26/2022 7:00 PM	File folder	
contact	5/26/2022 12:07 PM	Opera GX Web Do...	8 KB
gallery	5/27/2022 12:47 AM	Opera GX Web Do...	15 KB
index	11/26/2022 7:12 PM	Opera GX Web Do...	9 KB
programare	5/28/2022 4:16 PM	Opera GX Web Do...	10 KB
servicii	5/25/2022 11:54 PM	Opera GX Web Do...	8 KB

At the index page I am using HTML in order to be able to do the top bar and the menu buttons

```
34 <body>
35
36 <!-- ===== Top Bar ===== -->
37 <div id="topbar" class="d-none d-lg-flex align-items-center fixed-top">
38   <div class="container d-flex align-items-center justify-content-between">
39     <div class="d-flex align-items-center">
40
41     </div>
42     <div class="d-flex align-items-center">
43
44     </div>
45   </div>
46 </div>
47
48 <!-- ===== Header ===== -->
49 <header id="header" class="fixed-top">
50   <div class="container d-flex align-items-center">
51
52     <a href="index.html" class="logo me-auto"></a>
53     <nav class="nav-menu d-none d-lg-block">
54       <ul>
55         <li class="active"><a href="index.html">Home</a></li>
56
57         <li><a href="gallery.html">Gallery</a></li>
58
59         <li><a href="contact.html">Contact</a></li>
60
61       </ul>
62     </nav><!-- .nav-menu -->
63
64     <a href="programare.html" class="appointment-btn scrollto"><span class="d-none d-md-inline">Book</span> a vacation</a>
65
66   </div>
67 </header><!-- End Header -->
```

Another section in my HTML code is handling the sliding pictures from the homepage on and also the button *Book your vacation now* and the description on top of it.

```
<!-- ===== Hero Section ===== -->
<section id="hero">
  <div id="heroCarousel" data-bs-interval="5000" class="carousel slide carousel-fade" data-bs-ride="carousel">
    <ol class="carousel-indicators" id="hero-carousel-indicators"></ol>
    <div class="carousel-inner" role="listbox">
      <!-- Slide 1 -->
      <div class="carousel-item active" style="background-color: #f8d7da;">
        <div class="container">
          <h2>Mountain Cottage</span> - a dream log cabin</span></h2>
          <p>A vacation to our log cabin is something to remember forever!</p>
          <a href="programare.html" class="btn-get-started scrollto">Book your vacation now!</a>
        </div>
      </div>
      <!-- Slide 2 -->
      <div class="carousel-item" style="background-color: #fff3cd;">
        <div class="container">
          <h2>Mountain Cottage</span> - a dream log cabin</span></h2>
          <p>A vacation to our log cabin is something to remember forever!</p>
          <a href="programare.html" class="btn-get-started scrollto">Book your vacation now!</a>
        </div>
      </div>
      <!-- Slide 3 -->
      <div class="carousel-item" style="background-color: #fff3cd;">
        <div class="container">
          <h2>Mountain Cottage</span> - a dream log cabin</span></h2>
          <p>A vacation to our log cabin is something to remember forever!</p>
          <a href="programare.html" class="btn-get-started scrollto">Book your vacation now!</a>
        </div>
      </div>
    </div>
  </div>
```

```

<a class="carousel-control-prev" href="#heroCarousel" role="button" data-bs-slide="prev">
  <span class="carousel-control-prev-icon icofont-simple-left" aria-hidden="true"></span>
  <span class="sr-only">inapoi</span>
</a>

<a class="carousel-control-next" href="#heroCarousel" role="button" data-bs-slide="next">
  <span class="carousel-control-next-icon icofont-simple-right" aria-hidden="true"></span>
  <span class="sr-only">inainte</span>
</a>

</div>
</section><!-- End Hero -->

```

The last important section in the code handling the homepage is the one that presents the facilities from the index page.

```

<!-- ***** Services Section ***** -->
<section id="services" class="services services">
  <div class="container" data-aos="fade-up">

    <div class="section-title">
      <h2>Facilities</h2>
    </div>

    <div class="row">
      <div class="col-lg-4 col-md-6 icon-box" data-aos="zoom-in" data-aos-delay="100">
        <div class="icon"><i class="icofont-pine"></i></div>
        <h4 class="title"><a>Stunning view</a></h4>
      </div>
      <div class="col-lg-4 col-md-6 icon-box" data-aos="zoom-in" data-aos-delay="200">
        <div class="icon"><i class="icofont-telescope"></i></div>
        <h4 class="title"><a>Large living room</a></h4>
      </div>
      <div class="col-lg-4 col-md-6 icon-box" data-aos="zoom-in" data-aos-delay="300">
        <div class="icon"><i class="icofont-table-tennis"></i></div>
        <h4 class="title"><a>Cinema + playing room</a></h4>
      </div>
      <div class="col-lg-4 col-md-6 icon-box" data-aos="zoom-in" data-aos-delay="100">
        <div class="icon"><i class="icofont-wifi"></i></div>
        <h4 class="title"><a>Free Internet Access</a></h4>
      </div>
      <div class="col-lg-4 col-md-6 icon-box" data-aos="zoom-in" data-aos-delay="200">
        <div class="icon"><i class="icofont-bed"></i></div>
        <h4 class="title"><a>3 comfortable bedrooms</a></h4>
      </div>
      <div class="col-lg-4 col-md-6 icon-box" data-aos="zoom-in" data-aos-delay="300">
        <div class="icon"><i class="icofont-bathtub"></i></div>
        <h4 class="title"><a>2 amazing bathrooms</a></h4>
      </div>
    </div>

    <div class="col-lg-4 col-md-6 icon-box" data-aos="zoom-in" data-aos-delay="300">
      <div class="icon"><i class="icofont-bathtub"></i></div>
      <h4 class="title"><a>2 amazing bathrooms</a></h4>
    </div>
  </div>
</section><!-- End Services Section -->

```

The last section from this HTML code on the index page deals with the bottom down of the page and is also linking the Bootstrap code, JavaScript code with the homepage.

```
<!-- ===== Footer ===== -->
<footer id="footer">

  <div class="container">
    <div class="copyright">
      © Copyright <strong><span>Mountain Cottage</span></strong>. All Rights Reserved
    </div>
    <div class="credits">

    </div>
  </div>
</footer><!-- End Footer -->

<div id="preloader"></div>
<a href="#" class="back-to-top"><i class="icofont-simple-up"></i></a>

<!-- Vendor JS Files -->
<script src="assets/vendor/jquery/jquery.min.js"></script>
<script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="assets/vendor/jquery.easing/jquery.easing.min.js"></script>
<script src="assets/vendor/php-email-form/validate.js"></script>
<script src="assets/vendor/waypoints/jquery.waypoints.min.js"></script>
<script src="assets/vendor/counterup/counterup.min.js"></script>
<script src="assets/vendor/owl.carousel/owl.carousel.min.js"></script>
<script src="assets/vendor/venobox/venobox.min.js"></script>
<script src="assets/vendor/aos/aos.js"></script>

<script src="assets/js/main.js"></script>

</body>
</html>
```



The second page is the gallery page which has a similar structure in HTML as all page at the beginning, I will present this structure on after I will describe every page.

The code is the same for every image which is added on this page so I will post screenshots just with the first part of the div which I am using in order to store all the photos on the page.

```
<div class="row">

  <div class="col-lg-3 col-md-6 d-flex align-items-stretch">
    <div class="member" data-aos="fade-up" data-aos-delay="100">
      <div class="member-img">
        
      </div>
    </div>
  </div>

  <div class="col-lg-3 col-md-6 d-flex align-items-stretch">
    <div class="member" data-aos="fade-up" data-aos-delay="200">
      <div class="member-img">
        
      </div>
    </div>
  </div>

  <div class="col-lg-3 col-md-6 d-flex align-items-stretch">
    <div class="member" data-aos="fade-up" data-aos-delay="300">
      <div class="member-img">
        
      </div>
    </div>
  </div>
</div>
```

The last section of this code is the same as the code in the index page because I also need to link this page with the JavaScript and Bootstrap code.

The contact page follows a similar structure as the first page and the gallery page. It has a form which can be completed by the user, and it also links the Bootstrap code and the JavaScript code with this website page.

The form is made between the <section> tag in HTML code. And it is linked also with a PHP file which deals with the back-end of the website

```
<div class="container">
  <div class="row mt-5">
    <div class="col-lg-6">
      <div class="row">
        <div class="col-md-12">
          <div class="info-box">
            <i class="bx bx-map"></i>
            <h3>Address</h3>
            <p>Spring's Rue, number 9</p>
          </div>
        </div>
        <div class="col-md-6">
          <div class="info-box mt-4">
            <i class="bx bx-envelope"></i>
            <h3>Email address</h3>
            <p>contact@MountainCottage.ro</p>
          </div>
        </div>
        <div class="col-md-6">
          <div class="info-box mt-4">
            <i class="bx bx-phone-call"></i>
            <h3>Phone number</h3>
            <p>+40 12 789 325</p>
          </div>
        </div>
      </div>
    </div>
  </div>
</div>
```

```
<div class="col-lg-8">
  <form action="forms/contact.php" method="post" role="form" class="php-email-form">
    <div class="row">
      <div class="col form-group mt-3">
        <input type="text" name="name" class="form-control" id="name" placeholder="Name" />
        <div class="validate"></div>
      </div>
      <div class="col form-group mt-3">
        <input type="email" class="form-control" name="email" id="email" placeholder="Email"/>
        <div class="validate"></div>
      </div>
      <div class="col form-group mt-3">
        <input type="text" class="form-control" name="subject" id="subject" placeholder="Subject" />
        <div class="validate"></div>
      </div>
      <div class="col form-group mt-3">
        <textarea class="form-control" name="message" rows="5" data-rule="required" data-msg="Please write something" placeholder="Message"></textarea>
        <div class="validate"></div>
      </div>
      <div class="text-center"><button type="submit">Send</button></div>
    </div>
  </form>
</div>
```

The *Book a vacation* page has a similar structure with the Contact page, it also has a form which this time is a little bit different, and the

page ending is the same as all pages, also the last part of the HTML is just about including Bootstrap code and JavaScript code.

```
<section id="appointment" class="appointment section-bg">
  <div class="container" data-aos="fade-up">

    <div class="section-title">
      <h2>Book a reservation</h2>
      <p>Complete the form below in order to reserve for you the cabin <strong>Mountain Cottage</strong></p>
    </div>

    <form action="forms/appointment.php" method="post" role="form" class="php-email-form" data-aos="fade-up" data-aos-delay="100">
      <div class="row">
        <div class="col-md-4 form-group">
          <input type="text" name="name" class="form-control" id="name" placeholder="Name">
          <div class="validate"></div>
        </div>
        <div class="col-md-4 form-group mt-3 mt-md-0">
          <input type="email" class="form-control" name="email" id="email" placeholder="Email">
          <div class="validate"></div>
        </div>
        <div class="col-md-4 form-group mt-3 mt-md-0">
          <input type="tel" class="form-control" name="telefon" id="telefon" placeholder="Phone number">
          <div class="validate"></div>
        </div>
      </div>
      <div class="row">
        <div class="col-md-4 form-group mt-3" style="...">
          <input type="datetime" name="data" class="form-control datepicker" id="data" placeholder="Date">
          <div class="validate"></div>
        </div>
        <div class="col-md-4 form-group mt-3">
          <select name="zile" id="departament" class="form-select">
            <option value="">Number of nights</option>
            <option value="1">1</option>
            <option value="2">2</option>
            <option value="3">3</option>
            <option value="4">4</option>
          </select>
        </div>
      </div>
    </form>
  </div>
</section>
```

This page is also linked with a PHP file that stores the vacations booked into a database.

All the HTML start in the same way, because in all pages, for first I am linking them with the CSS files and with Bootstrap code and I am also including google fonts.

```
<meta charset="utf-8">
<meta content="width=device-width, initial-scale=1.0" name="viewport">

<title>Mountain Cottage</title>
<meta content="" name="description">
<meta content="" name="keywords">

<link href="assets/img/favicon2.png" rel="icon">
<link href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">

<link href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700,700i|Roboto:300,300i,400,400i,500,500i,600,600i,700,700i|Poppins:300,300i,400,400i,500,500i,600,600i,700,700i">

<link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
<link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
<link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
<link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
<link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
<link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
<link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
<link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
```

Also, the menu from the homepage is implemented in all pages from the website, such that the user can go from a page to another.



CSS- (Cascading Style Sheets) is used to style and layout web pages (for example, for altering the font, the color, the size of the content).

CSS is implemented in this project by only one stylesheet which deals with all of the style of the website together with Bootstrap and JavaScript. The style.css folder can be found in the folder styles from assets. It handles the responsiveness of the website and all the design using classes and ids which are implemented in the HTML files. This file is also grouped for example all styles for specific actions are done one after another and they are marked with a commentary. An example could be the styles used for the contact form.

```
/*-----  
# Contact  
-----*/  
  
.contact .info-box {  
  color: #444444;  
  text-align: center;  
  box-shadow: 0 0 20px rgba(214, 215, 216, 0.5);  
  padding: 20px 0 30px 0;  
}  
  
.contact .info-box i {  
  font-size: 32px;  
  color: #8bc34a;  
  border-radius: 50%;  
  padding: 8px;  
  border: 2px dotted #c5e9ec;  
}  
  
.contact .info-box h3 {  
  font-size: 28px;  
  color: #777777;  
  font-weight: 700;  
  margin: 10px 0;  
}  
  
.contact .info-box p {  
  padding: 0;  
  line-height: 24px;  
  font-size: 14px;  
  margin-bottom: 0;  
}
```

The stylesheet is used in order to set the backgrounds and the position of the images or forms on the website pages.



JS-(JavaScript) is used to add dynamic and interactive behavior to the web pages (such as some special effects, or an image slideshow).

JavaScript is used in order to make the website more responsive to the user. It is used in order to be able to handle functionalities of the forms, to make the scroll smother for the user and also for mobile navigation, in order to make the user able to access the website from a phone device also.

The purpose of this code is to make the scrolling smother for the user.

```
!(function($) {
    "use strict";

    // Smooth scroll for the navigation menu and links with .scrollto classes
    var scrolltoOffset = $('#header').outerHeight() - 1;
    $(document).on('click', '.nav-menu a, .mobile-nav a, .scrollto', function(e) {
        if (location.pathname.replace(/^\//, '') == this.pathname.replace(/^\//, '') && location.hostname == this.hostname) {
            var target = $(this.hash);
            if (target.length) {
                e.preventDefault();

                var scrollto = target.offset().top - scrolltoOffset;

                if ($(this).attr("href") == '#header') {
                    scrollto = 0;
                }

                $('html, body').animate({
                    scrollTop: scrollto
                }, 1500, 'easeInOutExpo');

                if ($(this).parents('.nav-menu, .mobile-nav').length) {
                    $('.nav-menu .active, .mobile-nav .active').removeClass('active');
                    $(this).closest('li').addClass('active');
                }

                if ($('body').hasClass('mobile-nav-active')) {
                    $('body').removeClass('mobile-nav-active');
                    $('.mobile-nav-toggle i').toggleClass('icofont-navigation-menu icofont-close');
                    $('.mobile-nav-overly').fadeOut();
                }

                return false;
            }
        }
    });
});
```

JavaScript is also used for other functionalities such that making the homepage image slideshow responsive for the user.

```
// Intro carousel
var heroCarousel = $("#heroCarousel");
var heroCarouselIndicators = $("#hero-carousel-indicators");
heroCarousel.find(".carousel-inner").children(".carousel-item").each(function(index) {
    (index === 0) ?
        heroCarouselIndicators.append("<li data-bs-target='#heroCarousel' data-bs-slide-to='" + index + "' class='active'></li>"):
        heroCarouselIndicators.append("<li data-bs-target='#heroCarousel' data-bs-slide-to='" + index + "'></li>");
});
```



Bootstrap-Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains HTML, CSS and JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

Bootstrap is used in my project in order to be able to handle the responsiveness of the website, as state in his definition, Bootstrap is a framework which contains templates and helps front-end programmers in order to be able to handle buttons, menus, forms and many or responsiveness on other devices. Bootstrap can also be used in order to do different things, but I did not use it for those purposes. In order to be able to do the front end of the website I picked a bootstrap template which I started to edit. All Bootstrap files can be found in the asset folder, more exactly in the vendor folder. All webpages are linked via HTML code with Bootstrap files.



PHP-(PHP) is an open-source server-side scripting language that can be used to receive data from forms and can work with databases (it is used for the contact form and for the appointment form in order to connect them with the databases).

In my project I am using PHP to deal with the back end of the website. The two forms which I have on my Book a vacation page and Contact page are linked with PHP to a MariaDB database which stores the details of the contact form and the booking form.



Both PHP files are found in this folder and the structure of them is similar.

This is the contact PHP file:

```
<?php

$link=mysqli_connect("127.0.0.1", "root", "", "project-db") or die("Failed connection");
if($_SERVER["REQUEST_METHOD"] == "POST"){
    $param_nume=$_POST["nume"];
    $param_email=$_POST["email"];
    $param_subiect=$_POST["subiect"];
    $param_mesaj=$_POST["mesaj"];

    $sql = "INSERT INTO contact (nume, email, subiect, mesaj) VALUES ( ?, ?, ?, ?)";

    if($stmt = mysqli_prepare($link, $sql)){
        mysqli_stmt_bind_param($stmt, "ssss", $param_nume, $param_email, $param_subiect, $param_mesaj);
        if(mysqli_stmt_execute($stmt))
            header("location: ../mesaj_trimis.html");
        else
            echo "Something went wrong";
        mysqli_stmt_close($stmt);
    }
}

mysqli_close($link);
?>
```

This PHP script connects to a MySQL database named "project-db" on the localhost using the "root" user and an empty password. It checks if the request method is POST, which indicates that a form has been submitted. If so, it retrieves the values of four form fields (nume, email, subiect, mesaj) from the \$\_POST superglobal array and assigns them to the variables \$param\_nume, \$param\_email, \$param\_subiect, and \$param\_mesaj respectively. Then it uses a prepared statement to insert these values into a table named "contact" in the project-db database. If the statement is successful, it redirects the user to a page named "mesaj\_trimis.html", otherwise it prints an error message. Finally, it closes the connection to the database.

This is the appointment PHP file:

```
<?php

$link=mysqli_connect("127.0.0.1", "root", "", "project-db") or die("Failed connection");
if($_SERVER["REQUEST_METHOD"] == "POST"){
    $param_nome=$_POST["nome"];
    $param_email=$_POST["email"];
    $param_telefon=$_POST["telefon"];
    $param_data=$_POST["data"];
    $param_zile=$_POST["zile"];

    $sql = "INSERT INTO book (nome, email, telefon, data, zile) VALUES ( ?, ?, ?, ?, ?)";

    if($stmt = mysqli_prepare($link, $sql)){
        mysqli_stmt_bind_param($stmt, "sssss", $param_nome, $param_email, $param_telefon, $param_data, $param_zile);

        if(mysqli_stmt_execute($stmt))
            echo "Your reservation was successfully recorded!";
        else
            echo "Something went wrong.";

        mysqli_stmt_close($stmt);
    }
}
mysqli_close($link);

?>
```

This PHP script also connects to the MySQL database named "project-db" on the localhost using the "root" user and an empty password. It also checks if the request method is POST, which indicates that a form has been submitted. If so, it retrieves the values of five form fields (nome, email, telefon, data, zile) from the \$\_POST superglobal array and assigns them to the variables \$param\_nome, \$param\_email, \$param\_telefon, \$param\_data, and \$param\_zile respectively. Then it uses a prepared statement to insert these values into a table named "book" in the project-db database. If the statement is successful, it prints a message saying, "Your reservation was successfully recorded!" otherwise it prints an error message "Something went wrong." Finally, it closes the statement and the connection to the database.



As I said previously the information from the forms is stored in the database as shown in the previous pictures.

nume	email	telefon	data	zile
John	john@gmail.com	274895632	2022-05-30	2
John	john@gmail.com	0274895632	2022-05-30	2
Jake	jake@gmail.com	0787362515	2022-07-03	2
Gigel	gigel@gmail.com	123345	2022-05-10	2

nume	email	subject	mesaj
John	john@gmail.com	question	Hello, is it available for the next week?
John	john@gmail.com	hello	ola

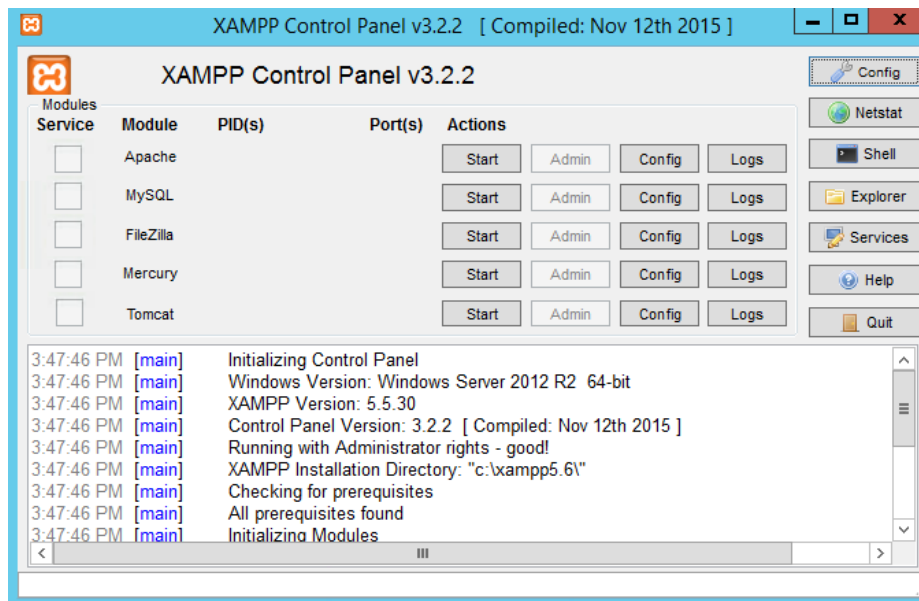
The programs used in order to create the website are: WebStorm (for writing the actual code), XAMPP (for generating localhost databases – for contact messages and for the appointments), and phpMyAdmin (for creating and administrating the databases)



WebStorm – is an IDE for JavaScript made by JetBrains and I also used it to open my PHP files, my HTML files and my CSS files, basically the whole code was written here in WebStorm.



**XAMPP** - XAMPP is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages.



## Bibliography

- <https://en.wikipedia.org/wiki/JavaScript>
- <https://en.wikipedia.org/wiki/HTML>
- <https://en.wikipedia.org/wiki/CSS>
- <https://en.wikipedia.org/wiki/PHP>