

# 1. Web Building

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# Web Building Tutorial

❏ We will teach you how to build a website.

❏ **What we will do**

- Create web pages using HTML
- Add a consistent style using CSS
- Add computer code using JavaScript
- Add static data pages
- Fetch data using AJAX
- Fetch data using JSON
- Fetch data using SQL

❏ We will create a simple company web site. *Try it!*

# Creating a Web Site (HTML)

## In this chapter

- we will create a web site on your computer
- The web site will only be visible to you. Later you will learn how to make it public

## Create a Home Page

- Create a new file named **Index.html** *Try it!*
- Use Notepad (or any other text editor) to put the content in the file
- After you have saved the file, you can open it in your browser, and see how it runs

## Add an About Page

- Create a new file named **About.html** *Try it!*

# Adding Style (CSS)

## In this chapter

- Create a CSS style sheet for the site
- Add a link to the style sheet in our pages

## Create a CSS Style Sheet

- Create a new file named **Site.css** *Try it!*

## Edit the Home Page

- Edit the file **Index.html**
- Add a link to a style sheet, and a `<div id="main">` element to define a “section” in the content. *Try it!*

## Edit the About Page

- Do the same changes in **About.html** *Try it!*

# Adding Code (JavaScript)

## ❏ In this chapter

- Create some computer code (JavaScript)
- Add a link to the script in your pages

## ❏ Create JavaScript

- Create a new file named **Script.js**

```
document.getElementById("foot01").innerHTML =  
"<p>&copy; " + new Date().getFullYear() + " W3Schools. All rights reserved.</p>";
```

## ❏ Edit the Home Page

- Edit the file **Index.html** *Try it!*

## ❏ Edit the About Page

- Do the same changes in **About.html** *Try it!*

# Adding a Data Page

## In this chapter

- Add a data page to the web site

## Edit the Style Sheet

- Edit your style sheet **Site.css** *Try it!*

## Create a Data Page

- Create a new file named **Customers.html** *Try it!*

# Adding Navigation

## In this chapter

- Add a navigation menu

## Add a Navigation Menu

- Edit the JavaScript file **Script.js** *Try it!*

## Edit The Style Sheet

- Edit your style sheet **Site.css** *Try it!*

## Edit the Home Page

- Edit your home page **Index.html** *Try it!*

## Edit All Pages

- Add the navigation element to the other pages (**Customers.html** and **About.html**)

# Fetching Data with AJAX

## In this chapter

- Fetch data from a text file using AJAX

## The Text File

- Is stored on our web server *Try it!*

## Change the Customers Page to use AJAX

- Change the file **Customers.html** *Try it!*



# Fetching Data with JSON

## ❏ In this chapter

- ❏ Fetch data from a text file using JSON

## ❏ The JSON File

- ❏ Is stored on our web server *Try it!*

## ❏ Change the Customers Page to use JSON

- ❏ Change the file Customers.html *Try it!*

# AngularJS, Data as a Service (DaaS)

## ❏ In this chapter (AngularJS)

- Use AngularJS to fetch and display data on a website *Try it!*

## ❏ In this chapter (DaaS)

- Fetch dynamic data from a web server running SQL
- Using a PHP Server Running MySQL *Try it!*
  - XMLHttpRequest reads data from “Customers\_MYSQL.php”
  - Customers\_MYSQL.php fetches data from a “live” database

# Fetching Data with SQL

## ❏ In this chapter (Fetching Data with SQL)

- ❏ Create server pages
- ❏ Server Running PHP and MySQL *Try it!*

## ❏ Cross-Site HTTP Requests

- Requests for data from a different server (than the requesting page)
  - Many pages load css, images, or scripts from different servers
- In the PHP example,
  - Added to allow access to the page from a cross-site

```
header("Access-Control-Allow-Origin: *");
```