WEB DEVELOPMENT

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WHAT IS WEB DEVELOPMENT ?

- Web development is the building and maintenance of websites; it's the work that happens behind the scenes to make a website look great, work fast and perform well with a seamless user experience.
- Web developers, or 'devs', do this by using a variety of coding languages. The languages they use depends on the types of tasks they are preforming and the platforms on which they are working.
- Web development skills are in high demand worldwide and well paid too – making development a great career option. It is one of the easiest accessible higher paid fields as you do not need a traditional university degree to become qualified.
- The field of web development is generally broken down into front-end (the user-facing side) and back-end (the server side). Let's delve into the details.

WHAT DOES WEB DEVELOPERS DO ?

- Web developers build things on the web that are a little bit more complicated than your simple template-based blog. Web developers have high level coding skills. These allow them to build websites or web based apps that are animated, input and output data, contain areas that store information, or interact with other websites and apps, such as social media or payment processing tools. It’s important to realize that web developers are different to web designers, who focus on the layout, look and feel, and the way people use a site.
- Web developers therefore need to have skills in teamwork and communication, because working with other people is essential to a project’s success. They need to be able to work independently, meet deadlines and respond well to critique. They also need to be able to come up with creative solutions to difficult problems.

WHAT LANGUAGES ARE USED IN WEB DEVELOPMENT ?

- Mainly there are languages such as HTML , JAVA used in defining the basic structure of websites.
- After defining the base for the websites there are languages used to customize websites for good consumer experience.
- CSS is used to customize the basic elements in websites.
- CSS and HTML works hand in hand.
- Also JAVASCRIPT is used to perform advanced animation and to add a good edge to the website.

HTML

- HTML stands for Hyper Text Markup Language
- HTML is the standard markup language for creating Web pages
- HTML describes the structure of a Web page
- HTML consists of a series of elements
- HTML elements tell the browser how to display the content
- HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.

BASIC SYNTAX FOR HTML

- <!DOCTYPE html>
  <html>
  <head>
  <title>Page Title</title>
  </head>
  <body>

  <h1>My First Heading</h1>
  My first paragraph.

  </body>
  </html>

- OUTPUT-

  My First Heading

  My first paragraph.

CSS

- Cascading Style Sheets (CSS) is used to format the layout of a webpage.
- With CSS, you can control the color, font, the size of text, the spacing between elements, how elements are positioned and laid out, what background images or background colors are to be used, different displays for different devices and screen sizes, and much more.
- CSS saves a lot of work. It can control the layout of multiple web pages all at once.

HOW TO ADD CSS INTO HTML?

- CSS can be added to HTML document in 3 ways:
- Incline –by using the style attribute inside HTML elements
- Internal –by using a <style> element in the <head> section
- External –by using <link> elements to link to an external CSS file
- The most common way to add CSS, is to keep the styles in external CSS files. However, in this tutorial we will use inline and internal styles, because this is easier to demonstrate, and easier for you to try it yourself.

WHAT IS JAVASCRIPT ?

- 1. HTML to define the content of web pages
- 2. CSS to specify the layout of web pages
- 3. JavaScript to program the behavior of web pages
- JavaScript is a text-based programming language used both on the client-side and server-side that allows you to make web pages interactive. Where HTML and CSS are languages that give structure and style to web pages, JavaScript gives web pages interactive elements that engage a user.

WHAT IS BOOTSTRAP ?

- Bootstrap is a giant collection of handy, reusable bits of code written in HTML, CSS, and JavaScript. It's also a front-end development framework that enables developers & designers to quickly build fully responsive websites.
- Bootstrap comes with its own code for automatically resizing images based on the current screen size. Just add the .img-responsive class to your images, and the predefined CSS rules take care of the rest.
- It can even change the shape of your images with the addition of classes like img-circle and img-rounded, and that's without going back and forth between the code and your design software.

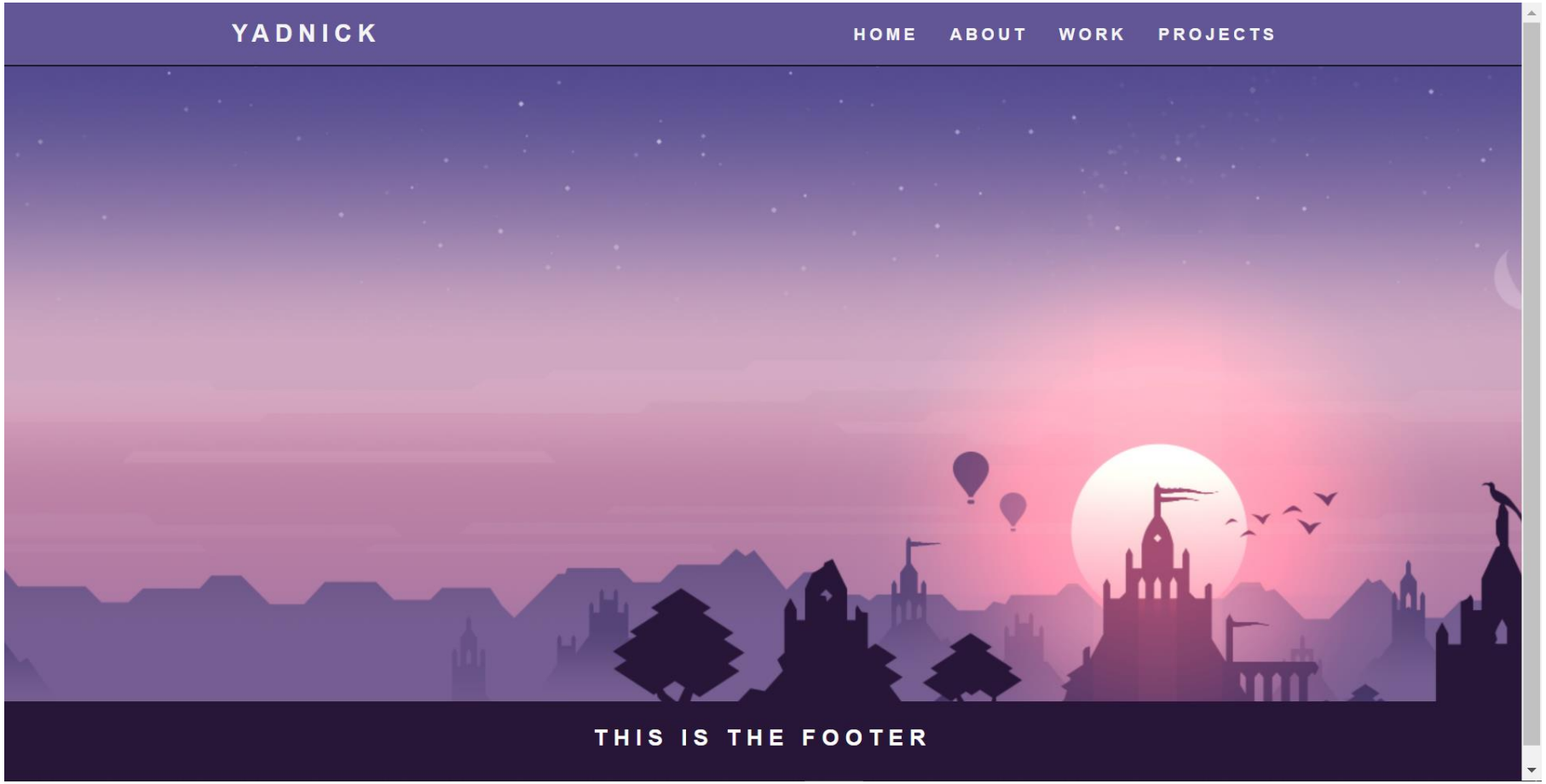
HOW TO APPLY BOOTSTRAP TO WEBSITE ?

There are two ways to start using Bootstrap on your own web site.

You can:

- Download Bootstrap from getbootstrap.com
- Include Bootstrap from a CDN.
- In bootstrap CDN we provide the link to bootstrap file which we downloaded in the html code in the head tag.

EXAMPLES OF WEBSITES MADE WITH HTML ,CSS JAVASCRIPT AND BOOTSTRAP



ANOTHER EXAMPLE