

# Bachelor of Cyber Security



**CICRA**  
C A M P U S

## **Assignment: Portfolio Document for Responsive Web App**

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# Week 01

This week I have been introduced to the world of responsive web design. I learned a lot about how the backend and frontend of an application works and how they combine together to make a full stack responsive application/ website.

I also learned about basics of HTML, CSS and Javascript and how they combine to make a dynamic website.

## HTML

HTML (HyperText Markup Language) is the most basic building block of the Web. It defines the meaning and structure of web content. "Hypertext" refers to links that connect web pages to one another, either within a single website or between websites. Links are a fundamental aspect of the Web. By uploading content to the Internet and linking it to pages created by other people, you become an active participant in the World Wide Web.

HTML uses "markup" to annotate text, images, and other content for display in a Web browser. HTML markup includes special "elements" such as <head>, <title>, <body>, <header>, <footer>, <article>, <section>, <p>, <div>, <span>, <img>, <aside>, <audio>, <canvas>, <datalist>, <details>, <embed>, <nav>, <output>, <progress>, <video>, <ul>, <ol>, <li> and many others.

An HTML element is set off from other text in a document by "tags", which consist of the element name surrounded by "<" and ">". The name of an element inside a tag is case insensitive. That is, it can be written in uppercase, lowercase, or a mixture. For example, the <title> tag can be written as <Title>, <TITLE>, or in any other way.

## CSS

Cascading Style Sheets (CSS) is a stylesheet language used to describe the presentation of a document written in HTML or XML (including XML dialects such as SVG, MathML or XHTML). CSS describes how elements should be rendered on screen, on paper, in speech, or on other media.

CSS has 3 different ways to implement css to a web page.

1. Inline CSS - used within html tags ex: <p style="color:red">This text in red</p>
2. Internal CSS - used at the top of the html webpage. Usually used within style tag in the <head></head> tag.
3. External CSS - created separately and linked within the head tag of the html webpage.

# Javascript

JavaScript is a scripting or programming language that allows you to implement complex features on web pages — every time a web page does more than just sit there and display static information for you to look at — displaying timely content updates, interactive maps, animated 2D/3D graphics, scrolling video jukeboxes, etc. — you can bet that JavaScript is probably involved. It is the third layer of the layer cake of standard web technologies; first two layers being HTML and CSS respectively.