**Monday**

JavaScript HTML DOM - Changing Attributes

The HTML DOM allows JavaScript to get and change the attribute of HTML elements.

Getting Element’s Attribute Value: The getAtrribute() method is used to get the current value of a specified attribute on the element.

JavaScript HTML DOM Navigation: The HTML DOM allows JavaScript to navigate the node tree using node relationships. Nodes in a node tree have a hierarchical relationship to each other. The terms parent, child, and sibling are used to describe the relationships.

**Tuesday**

JavaScript Math Object: The JavaScript Math object allows you to perform mathematical operations on numbers. Examples include: Math.PI, Math.round(), Math.pow(), Math.sqrt(), etc

AJAX Introduction: AJAX allows web pages to be updated”asynchronously” by exchanging data with a web server behind the scenes. This means that it is possible to update parts of a web page.

AJAX stands for Asynchronous JavaScript and XML. It is not a programming language, it’s a technique for accessing web servers from a web page.

AJAX Sending Request:

I. GET Requests: In GET method the browser will add the form contents (name/value pairs to the end of the URL.

Ii. POST Requests: In POST method contents are not displayed in the URL.

**Wednesday**

Callback Function: A callback function is a function passed into another function as an argument, which is then invoked inside the outer function to complete some kind of routine or action. Callbacks are often used to continue code execution after and asynchronous operation has completed.

**Thursday**

Application Programming Interface (API)

API integration is simply the connection between two (or more) applications, programs, services, etc.

API Architectural Styles: These include the following:

i. REST API

Ii. Webhooks

iii. SOAP API

Iv. GraphQL API

v. WebSocket API

**Friday**

API

Below are some of the key terms likely to come across when using APIs:

i. Token - This refers to encrypting. Tokens are passed inside the headers.

ii. Jwt - A website where you can decrypt a token.

iii. Endpoints - These are urls that the server understands.