**WEEK 1**

**INTRODUCTION TO THE PROGRAM**

**Front-end, back-end and full-stack developer roles:**

Front end developer works on all part of the website that is visual to the user.

Main technology used: HTML, CSS, JavaScript

JavaScript is the most critical skill for front-end development.

A back end developer works on the parts of the website or the web app that the end users don’t see.

Responsible for creating and maintaining the functionality.

A full stack developer is someone who is equally comfortable with front end and back end technologies.

**HOW THE WEB WORKS**

**-** Network switch connects multiple devices and allows them to communicate with each other. The network switch can connect to other network switches and now two networks can connect. These network switches then connect to more network switches until you have something called interconnected network. This interconnected network is called the internet.

- When we use website or video streaming services on the internet, these are provided by computers called servers. Our devices are called clients. This is known as client-server model.

- The data travel through large undersea cables connecting the world’s networks. These cables can transfer huge volumes of data per second.

- A server is a computer that runs applications and services ranging from websites to instant messaging. It’s called a server because it provides a service to another computer and its user also known as the client.

- Typically stored in data centers.

- We will learn about web servers:

Website storage and administration.

Data storage.

Security.

Managing email.

- A web page is a document that displays images, texts, videos and other content in the web browser whereas a website is a collection of web pages that link together.