**Assignment 1**

**Static Websites**

* In static websites the content is directly loaded from the server as it and each user accessing the website will see the same content.
* Once fully loaded, the website’s content becomes static, i.e., no new content will be loaded as the website is just a collection of independent HTML pages, along with CSS and JS for styling.
* Pros:
  + This makes static websites easy to produce and the website loads faster as it does not depend on other services.
  + These pages as also secure as no personalized information is either accessed or displayed by them.
* Cons
  + This also creates some problem as to update the website content each page must be changed manually, making it a tedious task.
  + As all content is static, these HTML pages tends to become huge in size, making it difficult to scale.
  + As each page is separate entity, website management becomes difficult.

**Dynamic Website**

* Dynamic website makes it possible for loading and displaying website content dynamically based on user behavior or information collected of the user.
* Dynamic websites maintain a user database, giving it the ability to customize content according to specific user.
* These are generally content-heavy and user-driven.
* Pros:
  + Pages are easily updated as only underlying service is needed to be updated to bring updates to all the pages dependent on it.
  + It provides better user experience as these are highly customizable.
  + Brings functionalities that are no way possible in static websites.
* Cons:
  + These need more resources to create and deployed.
  + As services act as the backbone for these websites, failure of one or more services can seriously affect their functionality.