**Software Concepts**



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# Introduction

Following document contains software concept descriptions and definitions as part of SQA training plan.

# HTML5 Compliance

HTML compliance means the how well a website pr web applications are compliant to the standards and markup followed by HTML5. For example, a website which is less compliant (i-e using an outdated browser) will display/covey its message less accurately compared to a website which is more compliant and depicts its content more effectively.

# SSL

SSL (Secure socket layer) is method of authentication and encryption between two parties (User and HTTPS). SSL provides security and privacy to the user from any cyber theft. SSL encrypts the data being sent among the user and https to prevent the data being intercepted.

# Sessions, Cookies & Cache

## Sessions

Session holds a chunk of user information on the server, this done to make the website usage better and more interactive. Session are active till the user closes the browser.

## Cookies

cookies are stored on the user/client side. They also hold certain information (i-e usernames, passwords, numbers). They are terminated upon their specified expiry time.

## Cache

Cache is stored in browser. It holds information such as media. The idea is to preload or load media file less repeatedly and once they cached, they don’t need to be loaded every time.

# Web Request / Response Lifecycle

Web request/ response cycle is basically how a client and server talk over the internet. When a user searches for a website such as [www.facebook.com](http://www.facebook.com) a request is generated from the browser (client), this request is a HTTP Request. The request goes through the ISP (Internet Service Provider) and to the Server itself (face-book’s server in this case), the server reads the http request and generates a http response. This http response is then again sent back to the client. Where the browser reads the response and displays it to the user.

# MVC Concepts

MVC stands for Model, View, Controller. Model holds the main structure of the data and its relations, View generates the data to be displayed, controller is responsible for the flow and management of data.

# Hashing

Hashing is a process where a hashing algorithm basically formats a string or piece of data into a value-based index. It helps to minimize the requirements store repetitive set of string and reduce lookup times.

# Dialogs

Dialog or Dial box is a Ui element used when the application wants to have additional required input regarding something or wants to provide information about something such as an error.