AJAX (Asynchronous JavaScript and Xml), enables web applications to retrieve data from the server asynchronously. Web application using AJAX enbales partial page updates ie, only the related section of the page is updated without reloading the entire page.

AJAX application are non-blocking, ie more responsive.

Better performance and reduced network traffic

No screen flicker.

Hash function:

A hash function must have the following properties:

If two objects compare as equal, the GetHashCode method for each object must return the same value. However, if two objects do not compare as equal, the GetHashCode methods for the two object do not have to return different values.

The GetHashCode method for an object must consistently return the same hash code as long as there is no modification to the object state that determines the return value of the object's Equals method. Note that this is true only for the current execution of an application, and that a different hash code can be returned if the application is run again.

For the best performance, a hash function must generate a random distribution for all input.