

# AJAX

## What is Ajax?

Ajax stand for asynchronous JavaScript and xml. It enable web application to retrieve data from the server asynchronously.

## **Advantages of Ajax**

- **Ajax applications are non-blocking**
  - As Ajax requests are asynchronous the user does not have to wait for the request processing to complete. Even while the request is still being processed by the server, the application remains responsive and the user can interact with the application. When the request processing is complete the user interface is automatically updated. This is not the case with synchronous requests, the user interface is blocked and the user cannot do anything else until the request has completed processing.
- **Better performance and reduced network traffic**
  - As Ajax enables the application send and receive only the data that is required. As a result, there is reduced traffic between the client and the server and better performance.
- **Partial Page Update**
  - Web application using Ajax enables partial page updates **i.e.** only the related section of the page is updated, without reloading the entire page and also avoiding full page refresh and screen flicker.

## **Advantages of Ajax**

- Ajax relies on JavaScript, if JavaScript disabled, Ajax application won't work.
- Harder to debug.
- Search engine like Google, Bing, yahoo etc. cannot index AJAX pages.

## **Application of Ajax**

- Many websites like Google, Bing, YouTube, and yahoo use Ajax to implement autocomplete feature.
- Gmail use Ajax to implement AutoSave feature
- Gmail user Ajax to implement username validation.
- Facebook use Ajax to load data as you keep scrolling down.