**GENERAL HEADER FIELDS**

**Cache-control –It is used to define rules for all the local storage to put resources (e.g. Browser, gateways).**

**Connection - It is to allow the senders to know that the connection is alive and close after completion of the response.**

**Date - This field represents the date and time at which the message was originated.**

**Pragma- This field used to include implementation-generic directives; might apply either request/response chain.**

**Transfer Encoding - This field used to safely transfer the transformed message body between the sender and the recipient.**

**Trailer - This field has a set of header fields with “chunked” transfer-coding.**

**Upgrade – This field allow the client to switch appropriate protocols.**

**Via - This field is used to trace where the message sends.**

**Warning - This field is typically used to warn about the missing or incorrect caching operations or transformations applied to the entity body of the message.**

**REQUEST HEADER FIELDS**

**Accept- can be used to specifically limit to a certain media types which are acceptable for the response.**

**Accept Charset-  This field allows clients to understand the use of character set that can be used to indicate what character sets are acceptable for the response.**

**Accept-Language- This field is similar to accept, but the set of natural languages that are preferred as a response to the request is restricted.**

**Accept-Encoding- This field is similar to accept, but the content-coding that is acceptable in the response is restricted.**

**Authorization- This field is only authorized user agent can access.**

**Expect- is used to indicate that particular server behaviours (100 continue/417 expectation failed) are required by the client.**

**From- This field should contains contact e-mail address if the human user generating the request.**

**Host- This field is requesting the host and port number of the resource from the original URI given by the user or referring resource.**

**Proxy-Authorization- This field allows the client to identify the user to a proxy which requires authentication.**

**Referer- This field allows a server to generate lists of back-links resources for interest, logging, etc.**

**RESPONSE HEADER FIELDS**

**Accept-Ranges-This field allows of the acceptance of the server in the range requests for a resource.**

**Age- This field is to estimate the amount of time or the age of the response, control cache.**

**Entity Tag (ETag) -This field provides the current value for the requested variant; soft/weak identifier for entity.**

**Proxy Authenticate- This field value consists of a challenge that indicated the authentication scheme.**

**WWW-Authenticate- This field value consists of at least one challenge that indicated the authentication scheme(s).**

**Location- This field is used to redirect the recipient for new location other that the request of the client.**

**Retry-after - This field used or set up 503(Service Unavailable) or 3xx(Redirection) if the response is the server is under maintenance or offline.**

**Server- This field indicated the information about the server that can risk if give full information about the server; protect the information of the server for the safety purposes.**

**Vary**

**ENTITY HEADER FIELDS**

**Content-encoding- This field allows compressing the documents without losing the original identity of the media type.**

**Content-Language- This field identify languages that needed in some contents.**

**Content-Length- This field indicated how many bytes that the entity-body that would have been sent.**

**Content-Location- This field find the exact location of the file.**

**Content-MD5- This field is deprecated, change something in the entity-body but use hashing algorithm for the computation.**

**Content-Range- This field specify if the send partial entity-body should be applied in the full entity body.**

**Content-Type- This field indicated the media type of the entity-body if it is text/html (kind of resource).**

**Expect- This field indicate when to end; retrieving files to other content; it says use it until it expires.**

**Last-Modified- This field indicates the time and date of last modified; it control cache.**

**Allow- The purpose of this field is strictly informed the recipient the lists of valid methods connected with the resource.**

**CONDITIONAL HEADER FIELD**

**User-Agent- This field contains the identity of users and clients.**

**Trailer-Encoding(TE)- This field if it is willing to accept trailer fields in a chunked transfer-coding.**

**IF-Match – This filed allow efficient updates of cached information with a minimum amount of transaction overhead; it is same to the If-None-Match.**

**If-Modified-Since- The request is not modified, the entity will not be returned from the server.**

**If-Range- If the copy of an entity fails, the client makes a second request to get the entire current entity-body.**

**If-Unmodified-Since- The requested resource has not been modified since the time specified in this field.**

**Max-Forward- To trace a request chain which appears to be failing or looping in mid-chain.**