

Web URL

- Web Uniform Resource Location (URL): Used to uniquely identify the specific web resource inside the web application
- Every web application should have its unique address in the form of URL
- URL is the one & only way to access web application via browser
- Max number of characters in the URL is 200

Syntax:

protocol://<domainName>:port/resourcePath?queryString#fragementId

EG: <http://localhost:8888/index.php>

<http://google.com/search?q=iphone11>

<http://172.217.160.142/search?q=iphone11>

protocol://<domainName>:port/resourcePath?queryString#fragementId

optional mandate optional optional optional optional

Protocol:

- When one application wants to communicate with another application (in our case browser & server), there needs to be a common language which both applications understand each other. Hence, we use protocol.
- Protocol is a common language where two application exchange information each other
- It is a set of rules & instructions.
- Browser always sends request & receives response via http protocol hence it is called http request / http response.
- It's an optional information & case insensitive.
- Types of Protocol
 - ✓ http
 - ✓ https
 - ✓ ftp
 - ✓ smtp etc.

Domain:

- Used to uniquely identify the specific computer/server in the network in which web application is present.
- Domain name might be computer name or IP address
- It's a mandatory information.

Example:

www.amazon.com (commercial)
.org (organization)
.edu (education)
.gov.in (government)

Port number:

- Used to uniquely identify the specific software/application inside the computer
- In the URL this is an optional information
- Below table specifies the default port number

	Tomcat	JBoss	WebLogic
http	8080	80	123
https	8443	443	456

Resource Path:

- Used to uniquely identify the specific web resource inside the application Server (web application)
- We know that web application is a collection of web resources, so it's a full path of web resource at web application side

Example:

<http://localhost:8080/index.html>
<http://localhost:8080/login>

Fragment ID:

- Used to uniquely identify the specific fragment/section in the webpage.
- It's an optional information in the URL.