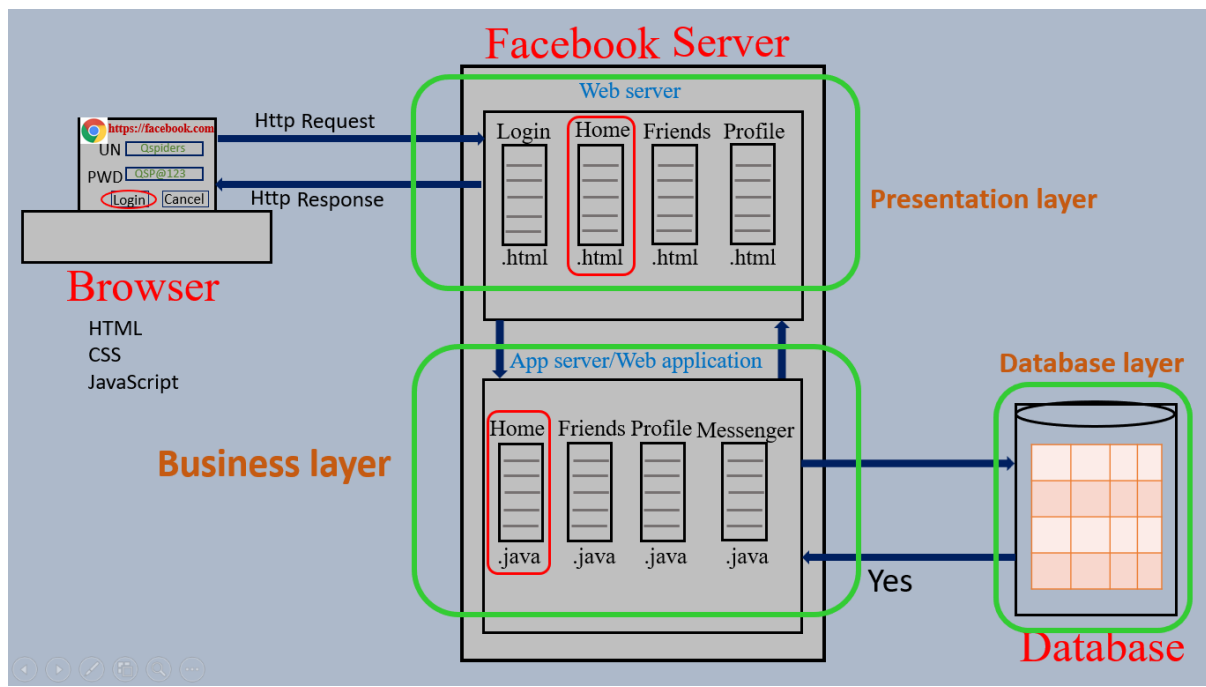


## Introduction To Web Application



### Web Browser:

- It is a standalone application which is used to access any web application over the network via URL.
- Browser understands only **html, CSS & Javascript** so that it always creates http request and interpret HTTP response given by web server.
- It's the one & only way to access web application.
- Browser always send / receive request via http Protocol.

Ex: Chrome, IE, safari, Firefox, opera etc.

**Http Protocol:** It's a set of instruction or rules which acts as a communication media between browser & webserver, http protocol by default understands html language.

### Web Server:

- Webserver is an application which runs on Operating System.
- Webserver, as the name implies "Serves requests to a Browser, it helps both web browser & web Application to interact with each other.
- Every App server (web application) is under control of Webserver.
- It receives the request from the browser, communicates with the web application & provides response back to browser.

Few Examples:

- Apache Tomcat
- Microsoft IIS
-

### App Server / Web Application:

- Collection of web Resources present within the web application is called as App server.
- App server contains business logic of the source code, html code, Servlet Code, JDBC code.
- **Web Resource** are always implemented using Servlet or JSP or Spring Boot for JAVA, ASP.net for C#.

**Web Resource:** Where business logic code is written based on CRS.

Example:

- Apache JBOSS
- IBM WebSphere
- Oracle WebLogic
- Oracle GlassFish

### Two types of Web resource:

1. **Static Web resource:** Response present inside the web application before the request.

Ex: Wikipedia

Documentation Website

- ❖ When web application is a collection of static web resource then it is called as **Static Web Application**.

Note: To develop static Web Application only HTML is enough

2. **Dynamic Web Resource:** Response getting generated at the time of request.

Ex: Internet Banking

Vodafone bill

Gmail

- ❖ If a web application contains at least one dynamic web resource then it is called as **Dynamic web Application**.

Note: servlet or JSP or Spring boot is mandate to develop dynamic Web application

### Data Base:

- It also an application which helps us to store the data in the form of tables.

Example:

- MySql
- MsQsl
- Oracle 10g
- DB2
- Mongo DB

- NoSql
- Sybase

#### **JDBC API:**

- It is a collection of APIs, which is used to connect to data base from the java Program.
- Using JDBC, we can store & fetch the data from the database

EG: mysql-jdbc-connector.jar

Ojdbc.jar

Db2-jbdrv.jar

#### **Servlet:**

- Servlet is a collection J2ee API, it's used to develop dynamic web application
- Servlet also contains web.xml file, which is used for mapping between java & html file

#### **What technology your Application Built on?**

**Front end:** html-5 or Angular-JS or React JS

**Back End:** java + (Spring Boot or Servlet or JSP)

**Data Base:** Mysql or Oracle-11g or DB2 or MONGO db

#### **What is URL?**

**Uniform resource locator:** Used to identify specific web resource inside the web application, URL is one & only way to access any web application via browser.