UTM
UNIVERSITI TEKNOLOGI MALAYSIA

Re-Introduction To Web Based Application

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Web-based Application

- Run on WWW – http protocol
- Using WWW technology & software
- Request and response protocol

Request and Response

Web browsers (request)

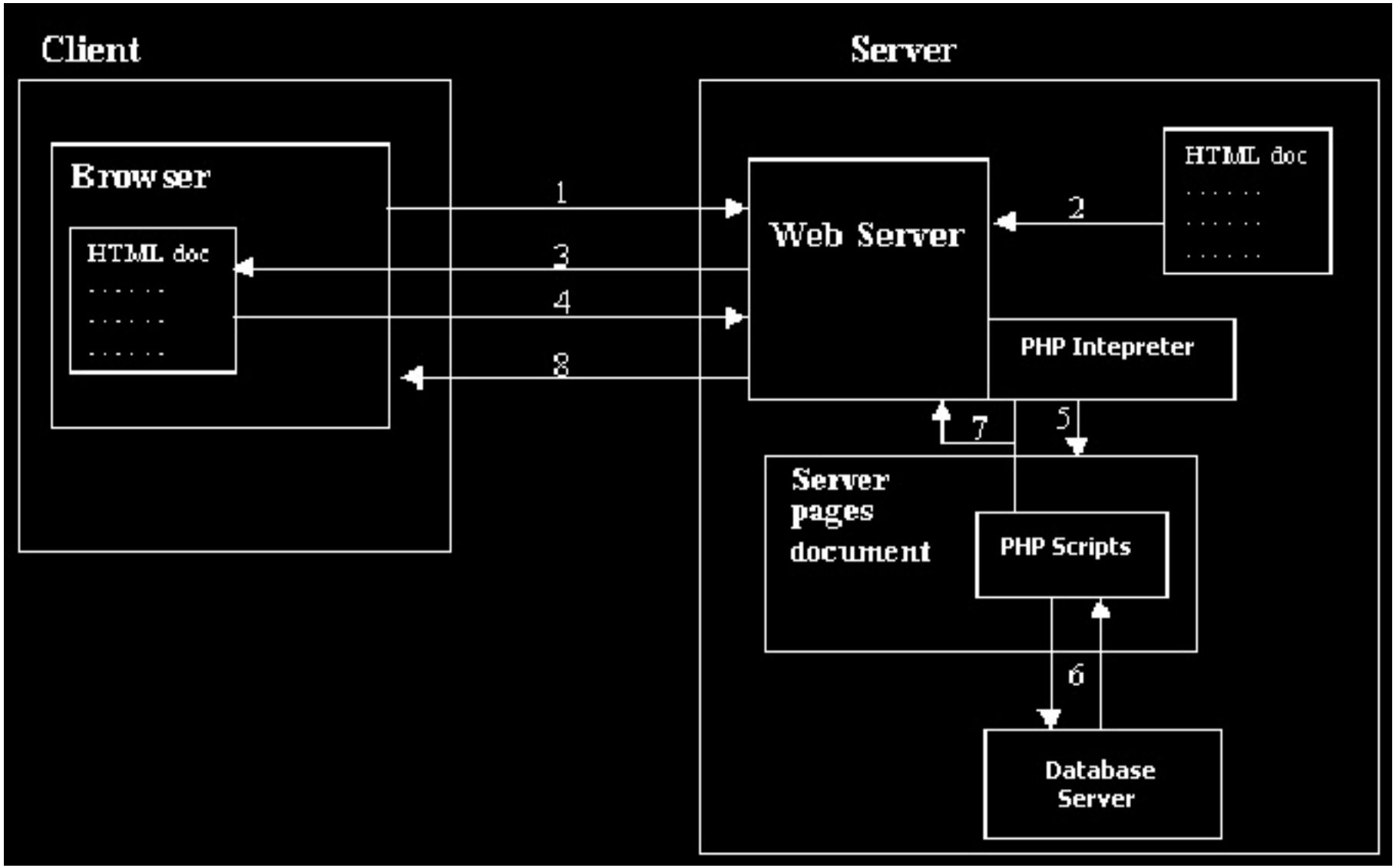
- Programs running on client computers
- Request for documents using URL
- *eg. Chrome, Firefox*

Web servers (response)

- Programs that provide documents to browsers
- *eg. Apache*

Web Architecture

How the Web works for static contents (basic architecture)

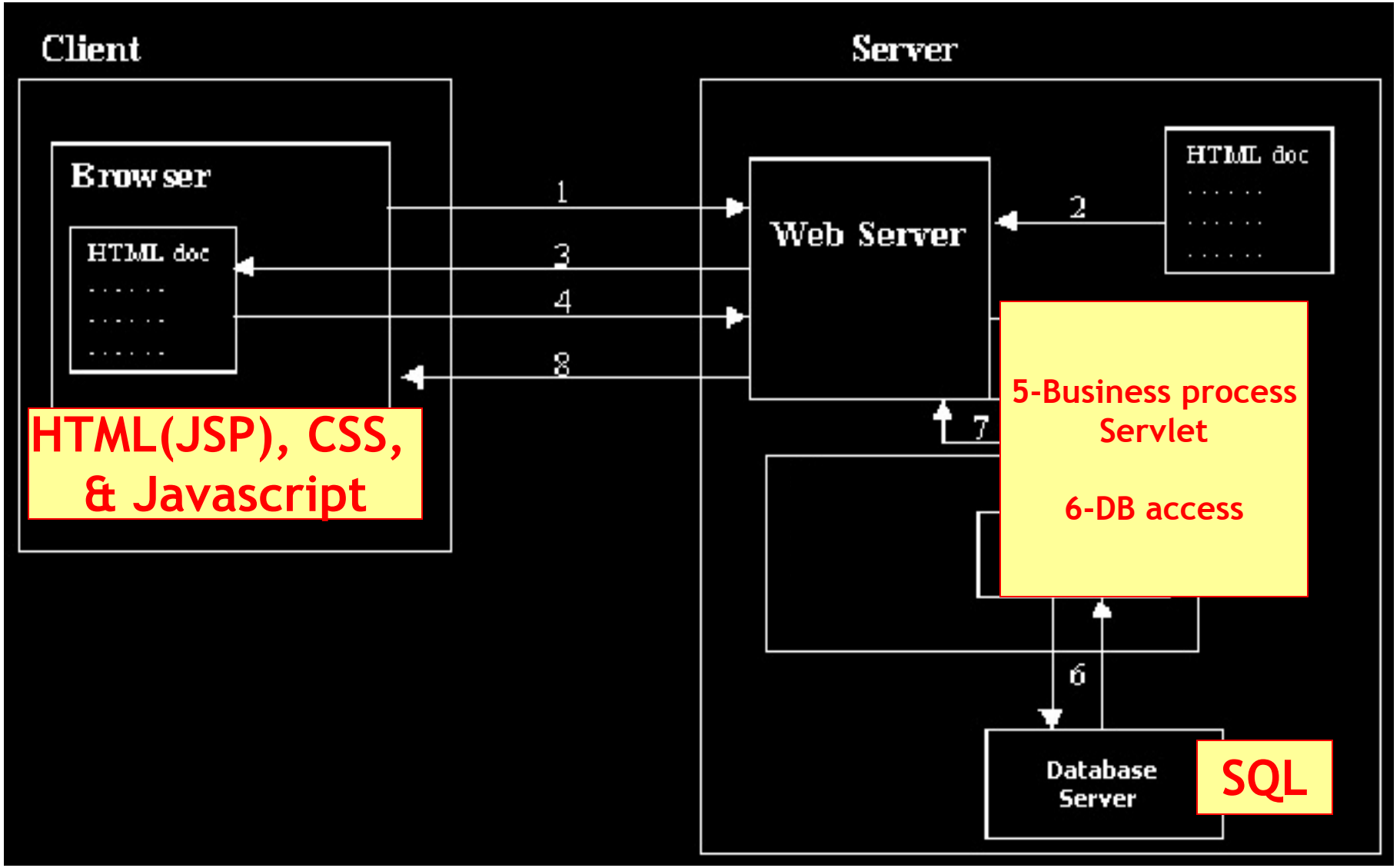


Web Application Architecture

1. End-user request for document in browser
2. Web server find/retrieve the document
3. Web server response by sending the requested document to the end-user browser

Example technology / framework

- Server producing HTML
  - Conventional CGI – Perl, C, C++, Python, VB
  - Java Servlet
  - Server pages – ASP, PHP, JSP
- Client-side script
  - JavaScript


Client
Server
Browser
HTML doc
. . . . . .
. . . . . .
. . . . . .
HTML(JSP), CSS,
& Javascript
1
2
3
4
8
Web Server
HTML doc
. . . . . .
. . . . . .
. . . . . .
7
5-Business process
Servlet
6-DB access
6
Database
Server
SQL

What we will learn

- Server generated HTML
  - Servlet
  - JSP
- Browser CSS – responsive
  - Bootstrap
- Backend Database
  - Mysql/mariadb