AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

SEMESTER – V

IT8501 – WEB TECHNOLOGY

UNIT III: SERVER SIDE SCRIPTING

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SYLLABUS

- **UNIT III SERVER SIDE SCRIPTING**
- Host Objects: Browsers and the DOM-Introduction to the Document Object Model DOM History and Levels-Intrinsic Event Handling-Modifying Element Style-The Document Tree-DOM Event Handling-Accommodating Noncompliant Browsers Properties of window. Server-Side Programming: Java Servlets- Architecture - Overview-A Servlet-Generating Dynamic Content-Life Cycle- Parameter Data-Sessions-Cookies-URL Rewriting-Other Capabilities-Data Storage Servlets and Concurrency- Databases and Java Servlets.
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- **Total Topics: 22**
- **CSS : 09 Topics**
- **Javascript: 13 Topics**

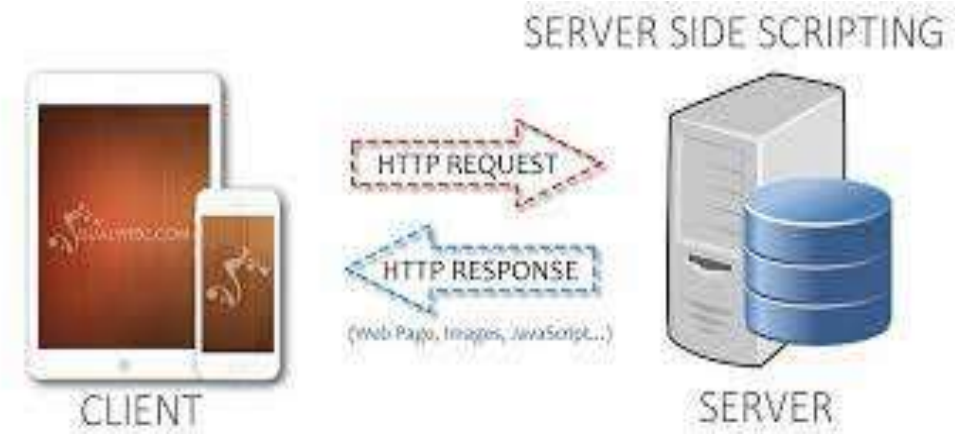
SYLLABUS

UNIT III: SERVER SIDE SCRIPTING

- Host Objects: Browsers and the DOM
- Introduction to the Document Object Model
- DOM History and Levels
- Intrinsic Event Handling
- Modifying Element Style
- The Document Tree
- DOM Event Handling
- Accommodating Noncompliant Browsers Properties of window.

- **Server-Side Programming: Java Servlets**
- **Architecture –Overview**
- **A Servlet-Generating Dynamic Content**
- **Life Cycle**
- **Parameter Data**
- **Sessions**
- **Cookies**
- **URL Rewriting**
- **Other Capabilities: Data Storage**
- **Servlets and Concurrency**
- **Databases and Java Servlets.**

SERVER SIDE SCRIPTING

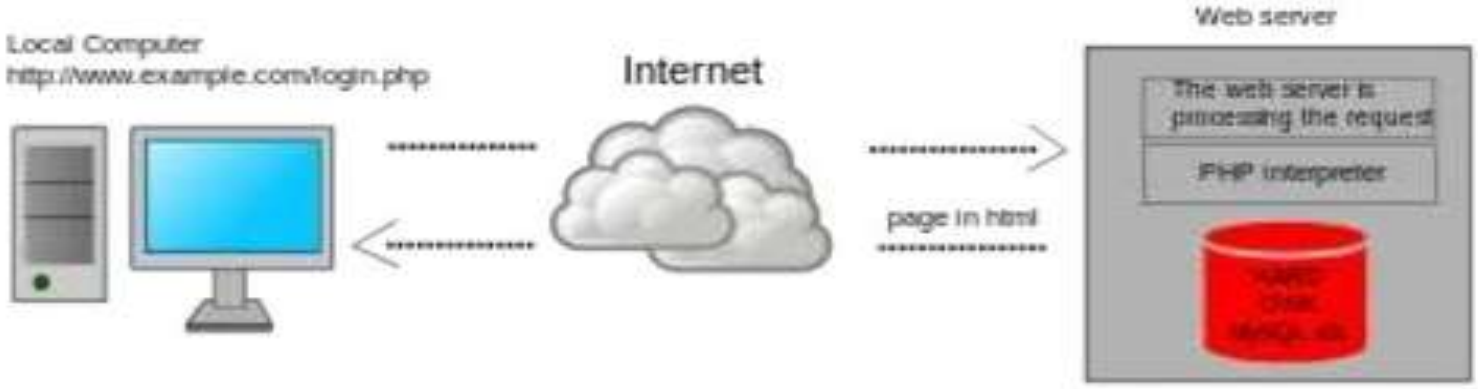


SERVER SIDE SCRIPTING

- **Server-side scripting** is a technique used in web development which involves
  - employing scripts on a web server which produces a response customized for each user's (client's) request to the website.

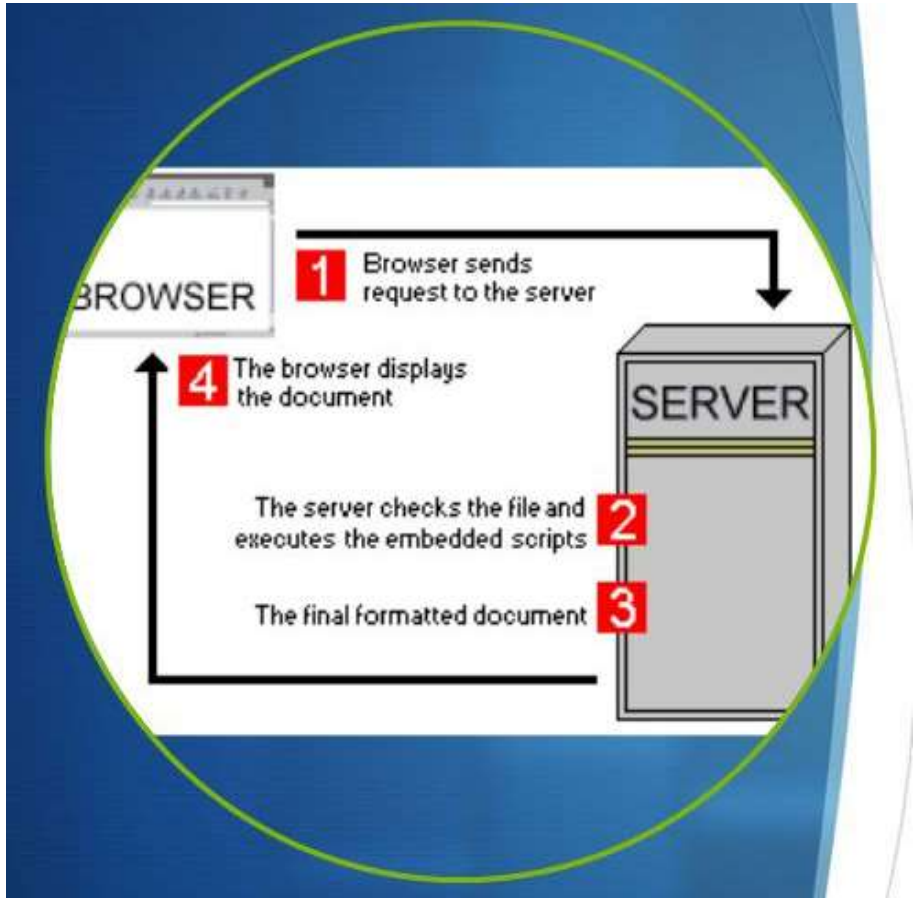
- The alternative is for the web server itself to deliver a static web page.

- Scripts can be written in any of a number of server-side scripting languages.



SERVER SIDE SCRIPTING

- Server-side scripting is distinguished from client-side scripting
  - where embedded scripts, such as JavaScript, are run client-side in a web browser, but both techniques are often used together.
- Server-side code can be written in any number of programming languages
- Examples of popular server-side web languages include **PHP, Python, Ruby, C#, and JavaScript (NodeJS)**



HOW SERVER SIDE SCRIPTING WORKS?

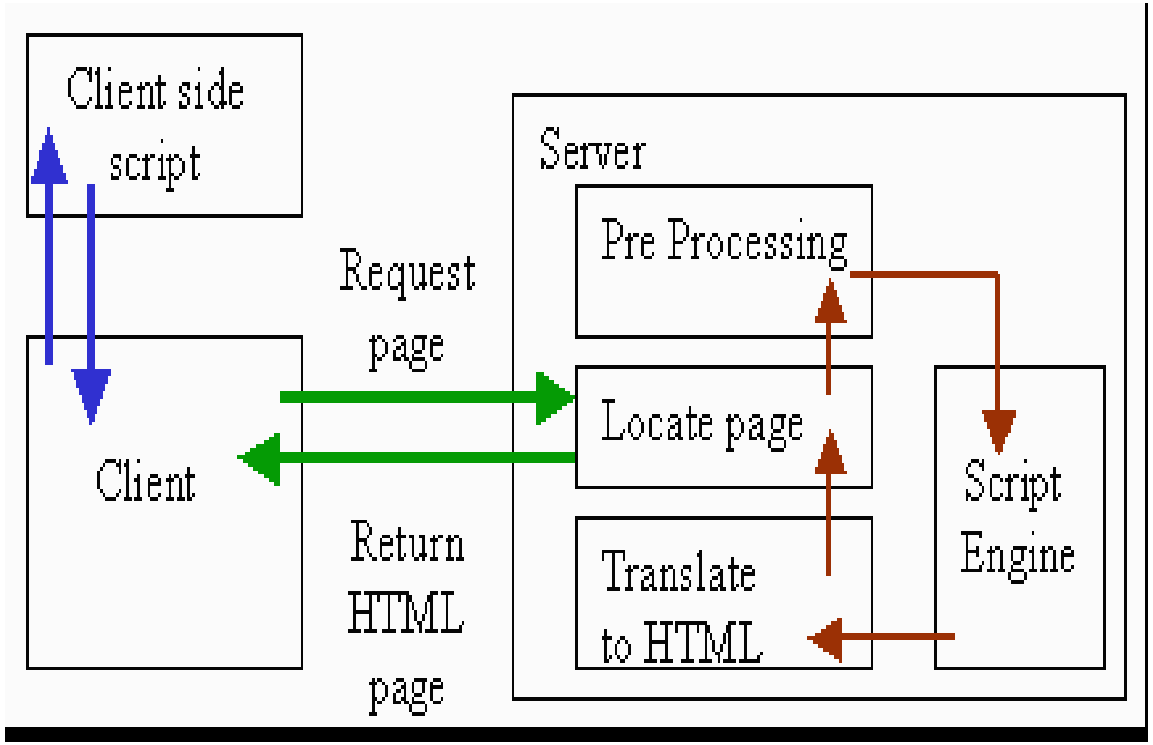
1. Execution starts at client side with a request to resource.

2. This is submitted to Server.

3. Server response generated .

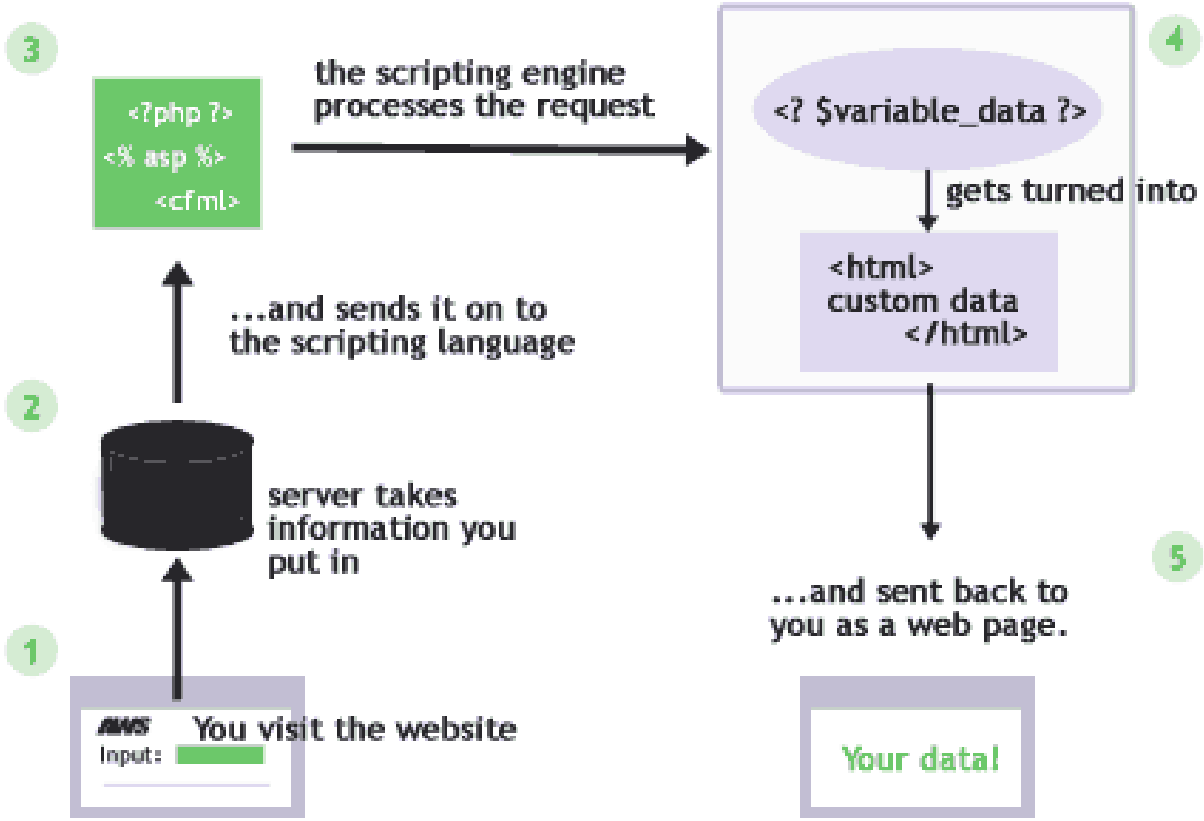
4. Returns to client side.

5. Client execute the response.



HOW DOES SERVER SIDE SCRIPTING EXECUTED?

- Server-side scripting is executed on the website's original server before it is sent over to the user's computer.
- Server scripts can respond to queries or searches submitted from
  - HTML forms, access databases and
  - return the result to a browser, and customize a webpage for convenience or user preference.
- It can also be used for security purposes by making it harder for people to look at the site's source code.



HOW DOES SERVER SIDE SCRIPTING EXECUTED?

- A perfect example of server-side dynamic scripting is the social network site Facebook.
- Any user can edit what goes into their newsfeed, search for friends within a large database, and customize their own profile to fit their personalities.
- Of course, such sites can contain a large amount of personal information so the server-side aspect helps promote the privacy and safety of the information of millions of common users.

CAPABILITIES OF SERVER SIDE SCRIPTING

- Server-side scripting:
  - often used to **provide a customized interface for the user.**
  - ***assembles client characteristics for use in customizing the response based on those characteristics, the user's requirements, access rights, etc.***
  - **enables the website owner to hide the source code that generates the interface,** whereas, with client-side scripting, the user has access to all the code received by the client.
  - ***supports client needs to make further requests over the network to the server*** in order to show new information to the user via the web browser.

Any Questions ?

Thank You