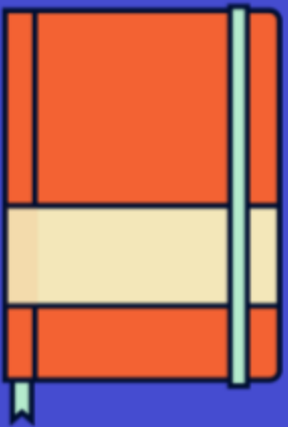# DOM, AND JAVA NETWORKING APPLICATIONS

Presentation in
Object Oriented Programming with C++ and Java
Active Learning

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PA20 Batch A1

# WHAT IS DOCUMENT OBJECT MODEL?

The Document Object Model (DOM) is an application programming interface (API) for HTML and XML documents.

It defines the logical structure of documents and the way a document is accessed and manipulated. In the DOM specification, the term "document" is used in the broad sense .
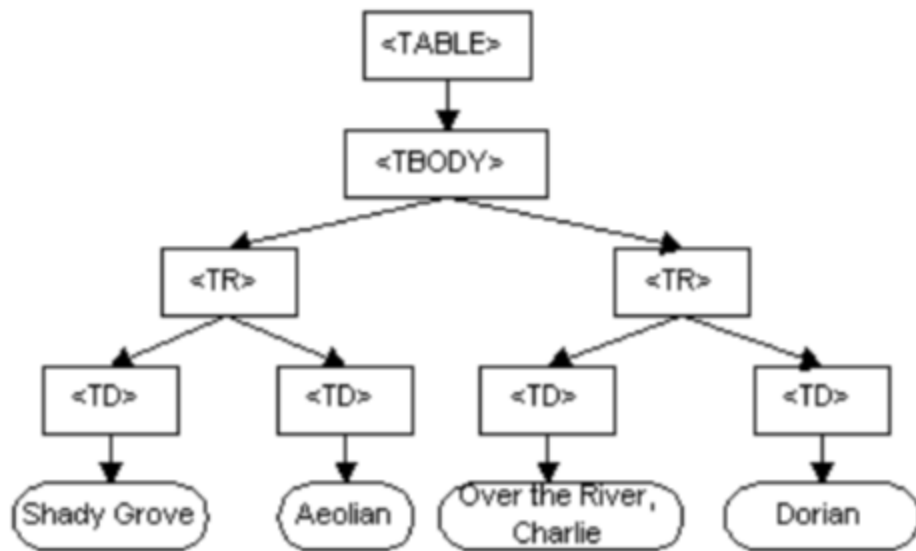
## THE DOM

```
<TABLE>
<TBODY>
<TR>
<TD>Shady Grove</TD>
<TD>Aeolian</TD>
</TR>
<TR>
<TD>Over the River, Charlie</TD>
<TD>Dorian</TD>
</TR>
</TBODY>
</TABLE>
```

## THE DOM
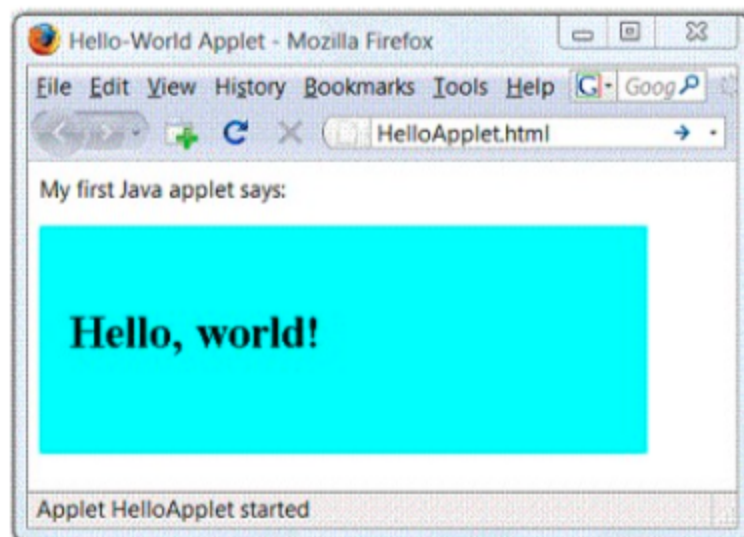
```
                    ┌──────────┐
                    │ <TABLE>  │
                    └────┬─────┘
                         │
                         ▼
                    ┌──────────┐
                    │ <TBODY>  │
                    └────┬─────┘
              ┌──────────┴──────────┐
              ▼                     ▼
          ┌──────┐              ┌──────┐
          │ <TR> │              │ <TR> │
          └──┬───┘              └──┬───┘
         ┌───┴───┐             ┌───┴───┐
         ▼       ▼             ▼       ▼
      ┌─────┐ ┌─────┐       ┌─────┐ ┌─────┐
      │<TD> │ │<TD> │       │<TD> │ │<TD> │
      └──┬──┘ └──┬──┘       └──┬──┘ └──┬──┘
         ▼       ▼             ▼       ▼
    ┌────────┐ ┌───────┐ ┌──────────┐ ┌────────┐
    │ Shady  │ │Aeolian│ │Over the  │ │ Dorian │
    │ Grove  │ │       │ │River,    │ │        │
    └────────┘ └───────┘ │Charlie   │ └────────┘
                         └──────────┘
```

## APIS IN DOM IN NET PACKAGE

A Low-Level API: It deals with the abstractions of addresses i.e. networking identifiers, Sockets i.e. bidirectional data communication mechanism and Interfaces i.e. network interfaces.

## HIGH LEVEL

A high Level API that deals with Abstraction of URLs

## MATERIAL

A Low-Level API: It deals with the abstractions of addresses i.e. networking identifiers, Sockets i.e. bidirectional data communication mechanism and Interfaces i.e. network interfaces.

# EXAMPLES OF CLASSES

Authenticator
CacheRequest
CacheResponse
ContentHandler
CookieHandler
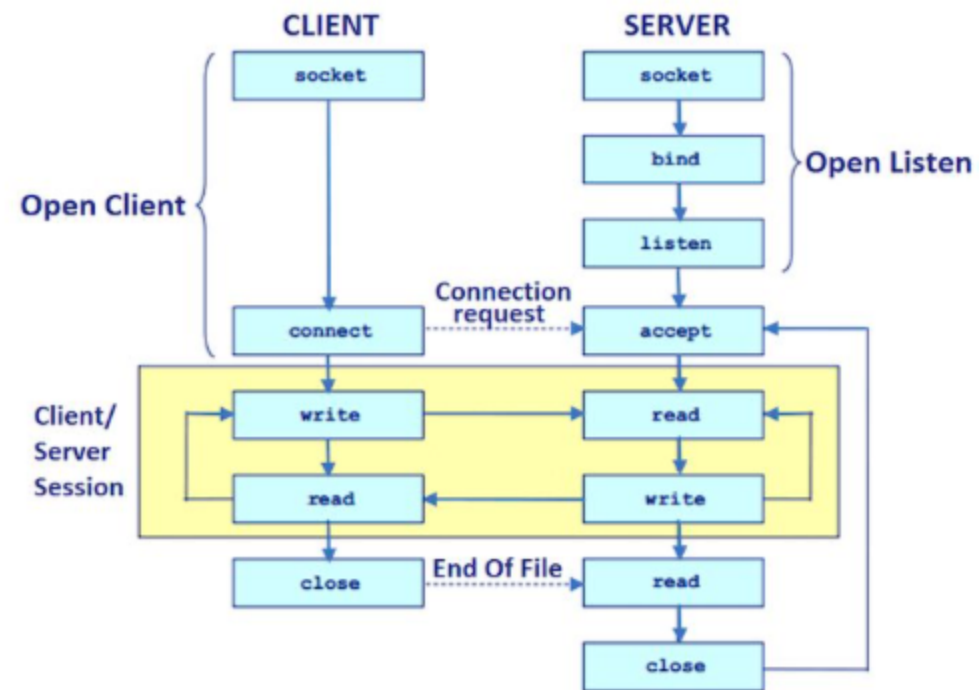CookieManager
DatagramPacket
DatagramSocket

# APPLICATIONS

*Applets - These solutions run in the context of a web browser.*

## APPLICATIONS

*Java Web Start applications are deployed from a browser the first time.*

SOCKET API

# RESOURCES

https://www.javatpoint.com/socket-programming

https://www.javatpoint.com/java-networking

http://dreamstudy.allbca.com/java13.html

https://www.coursehero.com/file/126402207/socket-programmingjava/

THANK YOU!