

Javascript ES6

Lesson 5: Document Object Model



Lesson Objectives

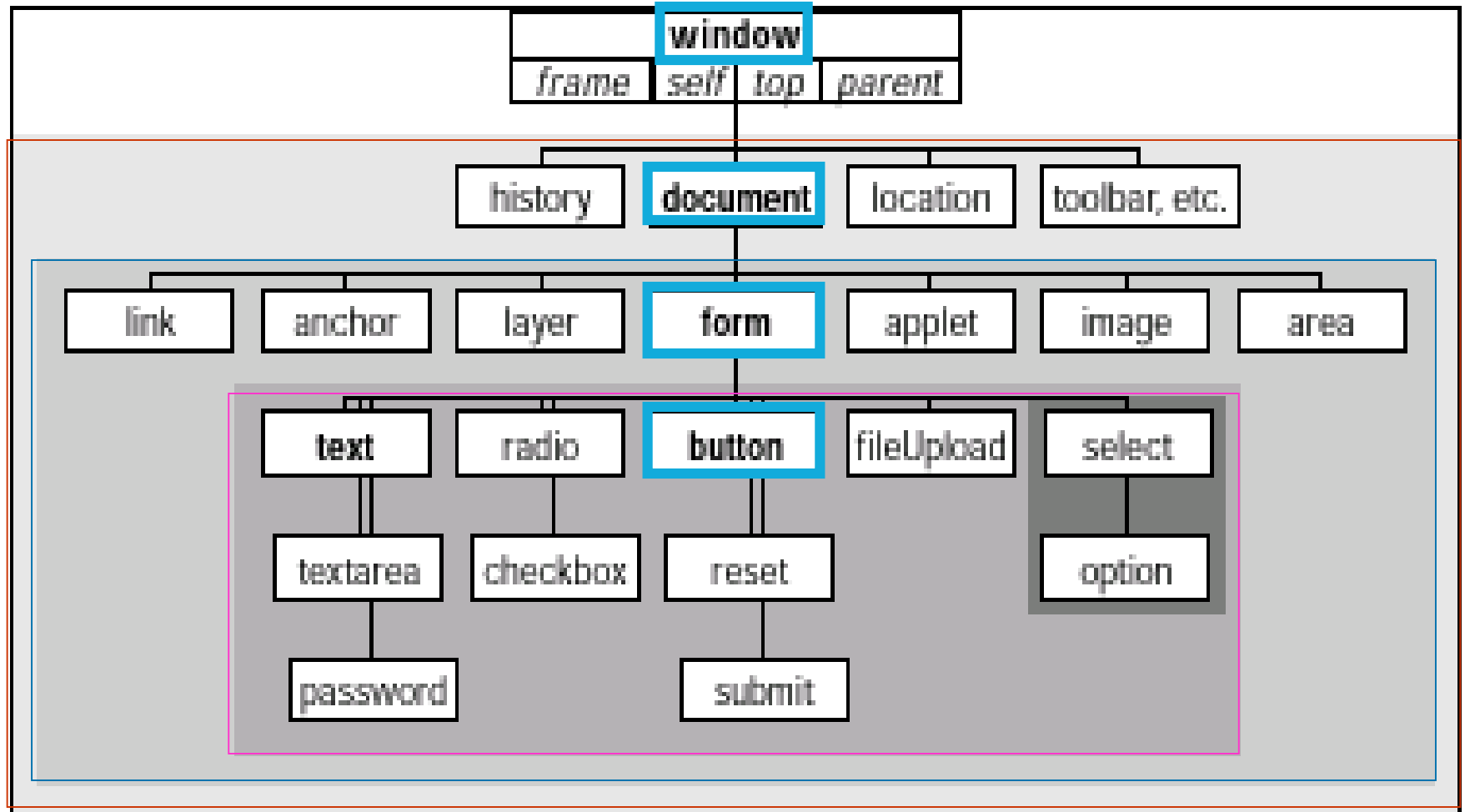
After completing this module you will be able to:

- Understand the JavaScript Object Model
- Understand the *Window* object





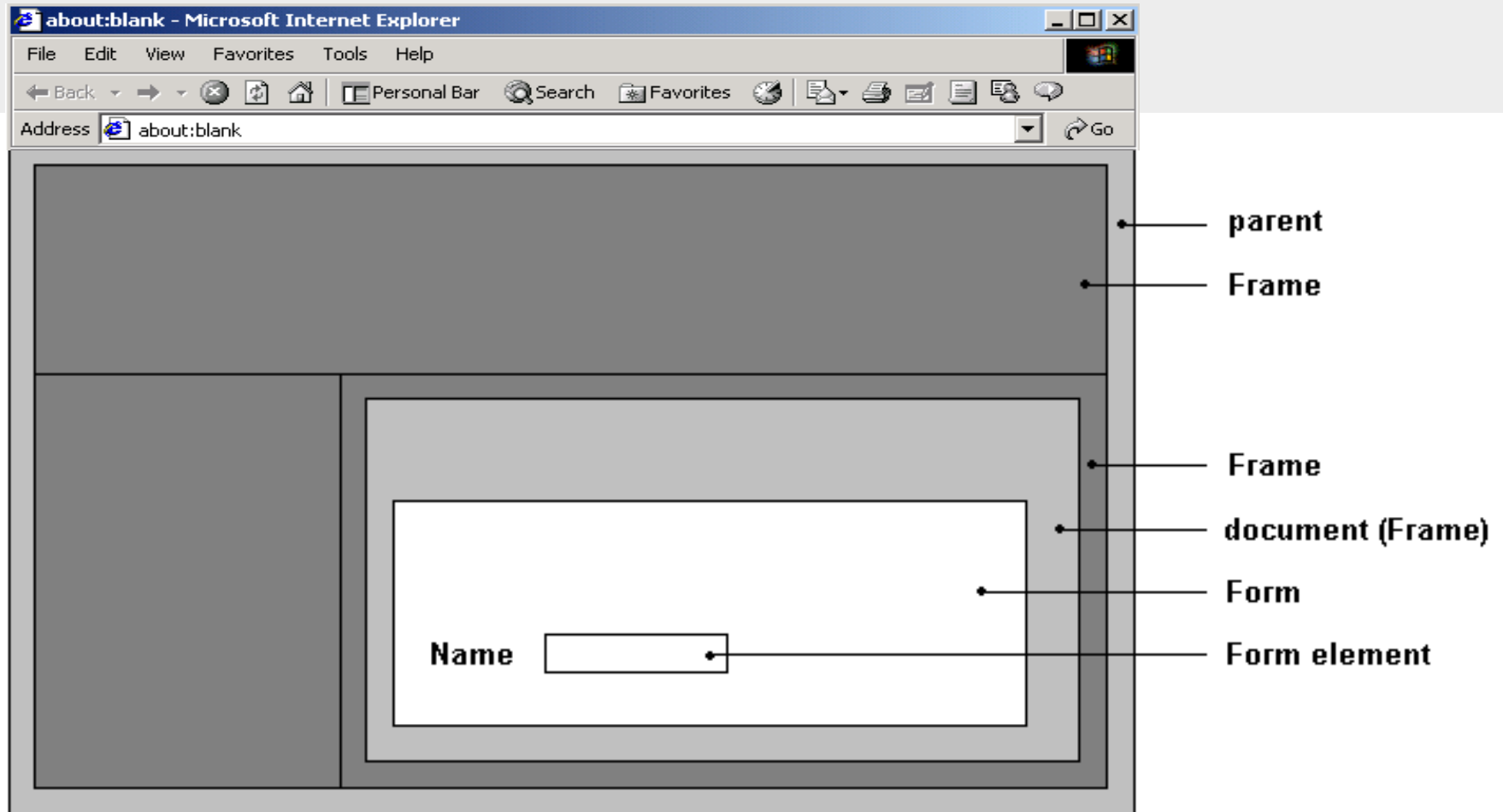
JavaScript Document Object Model





5.1: JavaScript Document Object Model

JavaScript Document Object Model





5.1: JavaScript Document Object Model

Object Properties

Define a particular, current setting of an object

Property names are case-sensitive

Each property determines it's own read-write status

Any property you set survives as long as the document remains loaded in the window

For example:

```
document.forms[0].phone.value = "555-1212"
```

```
document.forms[0].phone.delimiter = "-"
```

```
//
```



5.1: JavaScript Document Object Model

Event Handlers

Specify how an object reacts to an event

- Event can be triggered by a user action or a browser action.

There are two ways to map functions to events

- Event handlers as methods:

```
document.formName.button1.onclick=f1()
```

- Event handlers as properties:

```
<INPUT TYPE="button" NAME="button1" onClick="f1()">
```



Working with Window Object

Window object:

- Unique position at the top of the JavaScript object hierarchy
- Can be omitted from object references since everything takes place in a window

The following two statements are the same

- `window.alert("Welcome to Javascript ")`
- `alert("Welcome to Javascript ")`

Properties

- `defaultStatus`
- `status`
- `closed`



Window Object Methods

alert(message)

```
window.alert("Display Message")
```



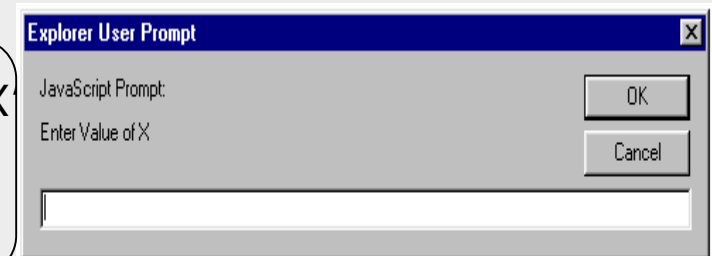
confirm(message)

```
window.confirm("Exit Application ?")
```



prompt(message,[defaultReply])

```
var input= window.prompt("Enter value of X")
```





Window Object Methods

`open("URL", "windowName" [, "windowFeatures"])`

```
newwin=window.open("new/URL","NewWindow",  
"toolbar,status,resizable")
```

`close()`

`moveBy(deltaX,deltaY), moveTo(x,y)`

`scrollBy(deltaX,deltaY), scrollTo(x,y)`



5.2: Window Object

Window Object Methods

setTimeout, clearTimeout

```
y=setTimeout('scroll()','100')
```

clearTimeout(y)

setInterval, clearInterval

```
y=setInterval('scroll()','100')
```

clearInterval(y)



Window Object Event Handlers

Event Handlers for the Window Object

- onBlur
- onFocus
- onLoad

Demo



Window_object.html
setTimeout_method.html
Window_ex.html
setInterval_method.html



Lab



Lab 5 :

- Working with Document Object Model (DOM)



Summary



Document Object Model is a interface that allows programs and scripts to dynamically access and update content, structure and style of documents

Window object is the topmost object in the entire scheme. It has properties, methods and event handlers

The history object has an array of history items having details of the URL's visited from within that window

The Location object contains information about the current URL





Review Questions

Question 1: Closed property returns _____ if the window object is closed either by a script or by the user.

- Option 1: 1
- Option 2: True
- Option 3: 0

Question 2: An alert dialog box is a modal window that presents a message for users with a single OK button to dismiss it.

- True / False





Review Questions (Contd..)

Question 4: The _____ and appCodeName properties are simply the official name and the internal code name for the browser application.

- Option 1: Appname
- Option 2: appName
- Option 3: applname

Question 5: The _____ property supplies a string of the entire URL of the specified window object.

- Option 1: location.href
- Option 2: hostname
- Option 3: hash

Question 6: The _____ property describes both the hostname and port of a URL.

