UNIT NO 6

Menus Navigation & Web Page Protection

Marks-12

Marks

Unit No.	Unit Title	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	Total Marks
I	Basics of JavaScript Programming	10	04	04	04	12
II	Array, Function and String	10	02	04	08	14
III	Form and Event Handling	06	02	04	04	10
IV	Cookies and Browser Data	06	02	02	04	08
V	Regular Expression, Rollover & Frames	08	02	06	06	14
VI	Menus, navigation and web page protection	08	02	04	06	12
Total		48	14	24	32	70

Syllabus Details

Unit –VI Menus, navigation and web page protection	6a. Develop JavaScript to manage the given status bar. 6b. Develop JavaScript to create the given banner. 6c. Develop JavaScript to create the given slide show. 6d. Develop JavaScript to create the given Menu. 6e. Write JavaScript to protect a webpage in the specified manner.	6.1 Status bar- builds a static message, changing the message using rollover, moving the message along the status bar 6.2 Banner –loading and displaying banner advertisement. Linking a banner advertisement to url 6.3 Slide Show – creating a slide show 6.4 Menus- creating a pulldown menu, dynamically changing a menu, validating menu selection, Floating menu, chain select menu, tab menu, pop-up menu, sliding menu, highlighted menu, folding a tree menu, context menu, scrollable menu, side bar menu. 6.5 Protecting web page – hiding your code, disabling the right mouse button, JavaScript, concealing email address. 6.6 Frameworks of javasript and its application

6.1 Status Bar

 Status bar is a horizontal bar, typically at the bottom of the screen or window, displaying information about a document being edited or a program running.

  We can modify status bar using Java Script.

  For example, it can be used to run display information about a link, when the user moves cursor of mouse over that link.

  Also a small amount of information about the page can be displayed in the status bar.

  The horizontal status bar is removed in modern web browsers.

  The status information is still shown in a small box which is generated dynamically and disappears.

  Hence, the static message is not work with that new status bar, because, it does not stay on screen.

6.1 Status Bar

6.1.1 Build Static Message

- We can build a static message which will display on status bar.

- As it is static it will be present permanently on status bar.

- To create a message in status bar we used 'status' property of window object.

- This property is not supported by the modern browser.

- Thus, the static message is not possible to display in modern browser. So, it has no effect.

- We can create static message in old browser and old operating system.

6.2 Banner

- A rectangular area in webpage where images is placed for advertisement purpose is known as Banner.

- Banner can be placed anywhere in the webpage , horizontally on top and bottom or vertically at right and left side of the webpage.

- To load and display the banner advertisement , we placed an image is advertisement of particular advertiser.

- We can also provide the link to that image.

- When image is clicked it will go to the advertiser's website.

6.3 Slide Show

 A series of images as a presentation continuously changing one after another on screen is known as slide show .

 It contains multiple still images. which change in a sequential order after few seconds.

 We can change the path of image on specificc time interval.

6.4 Menus

 The menu element represents a group of commands that a user can perform or activate.

 Menu may contain multiple choices to select.

 User can choose one or more menu at a time depending on type of menu.

6.4.1 Creating Pull Down Menu

 There are various types of menus are available ,such as pulldown menu , floating menu, chain select menu , tab menu , sliding menu , pop up menu , scrollable menu , etc.

 The pulldown menu, can be created by using <select> tag of html.

 The <option> tag is used to define the option of the pulldown menu.

 The <option> tag written inside the <select> tag .

6.4.2 Dynamically Changing Menu

 The item of the menu can be changed dynamically depending on any action taken placed.

 There is two pulldown menus .

6.4.3 Validating Menu Selection

- While filing information, user can forget to select an option in menu.
- In such case, the incomplete information should not be send to the server.
- To make fields compulsory to fill, we use filed validation.
- We can validate menu selection by using JavaScript.
- JavaScript is used for Client Side Validations.
- We can check whether the input is correct or not.
- If input is incorrect then the error message can be generated and displayed to the screen.
- By using JavaScript, the user gets prompt to fill the proper information.

6.4.4 Floating Menu

 When user scrolls the webpage, sometimes we need a menu to stick to the screen for particular operation.
 The menu which is fixed while scrolling the webpage is known as floating menu.
 A floating menu can be created by setting the style position of that menu fixed.

Other Types of Menu

1. Chain Select Menu
2. Tab Menu
3. Popup Menu
4. Sliding Menu
5. Hiding Menu
6. Floating a Tree Menu
7. Context Menu
8. Scrollable Menu
9. Side Bar Menu

6.5 Protecting the Webpage

6.5.1 Hiding Your Code

- The source code of the webpage can be viewed by clicking right mouse button on the webpage.
- Anyone who visits to the webpage can simply view the source code of the webpage.
- Viewing source code by users is not safe.
- We can hide the source code of the webpage by disabling the right mouse click on webpage.
- We write the code to disable the right mouse button in JavaScript.
- Hiding source code is protecting the source code by viewing other users.

6.5 Protecting the Webpage

6.5.2 Disabling the Right Mouse Button

- The source code of the webpage of some websites can be viewed by right clicking and selecting the option 'view source'.
- By viewing source code we can find out how the webpage is created, anyone can use that source code to create their own webpage.
- It is not secure to display a source code to users.
- We can disable the right click of mouse button.
- Thus the user cannot see the source code of the webpage.

6.5 Protecting the Webpage

6.5.3 Concealing email Address

 Concealing email address means to hide email address from unauthorized user.

 If we are working with the email address and we don't want to show email address to the user, then we can hide the email address by using JavaScript.

6.6 Frameworks of JavaScript and its Application

- A JavaScript framework is an application framework which is written in JavaScript.
- JavaScript frameworks are collections of JavaScript libraries which provide the predefined code or functions to the developer.
- It performs the general programming that JavaScript do and many more with less lines of code.
- There are various JavaScript frameworks are available.
- Each framework has different work flow.
- An entire application is based on the framework.
- The framework designs the complete application.
- In framework, User need not call the predefined library functions instead the framework itself call the functions in specific way.

6.6 Frameworks of JavaScript and its Application

- Some of the framework such as AngularJS follows the Model-View-Controller design pattern to separate the complex code and to make easy the development and improve the code quality.
- Some of the examples of Java Script frameworks are AngularJS, React.JS, Meteor. JS, Ember.JS, etc.
- Each Framework has wide range of applications.
- JavaScript frameworks are used in web development as well as in hybrid mobile app development.
- It improves the code quality.
- The development of entire application is based c framework, where less code is required to write by developer.
- The react.js is used in react-native mobile application development.
- Angular JS is used in single page web application development.
- Frameworks reduce the code complexity