Write-up	Correctnessof program	Documentation of program	Viva	Timely Completion	Total	Dated sign of Subject Teacher
2	2	2	2	2	10	

Assignment No 4 (A)

Aim: Create a simple Mobile Website jQuery Mobile.

Theory:

jQuery: -

jQuery is a fast, small, cross-platform and feature-rich JavaScript library. It is designed to simplify the client-side scripting of HTML. It makes things like HTML document traversal and manipulation, animation, event handling, and AJAX very simple with an easy-to-use API that works on a lot of different typeof browsers.

The main purpose of jQuery is to provide an easy way to use JavaScript on your website to make it more interactive and attractive. It is also used to addanimation.

What is jQuery?

jQuery is a small, lightweight, and fast JavaScript library. It is cross-platformand supports different types of browsers. It is also referred as? write less do more? because it takes a lot of common tasks that requires many lines of JavaScript code to accomplish and binds them into methods that can be calledwith a single line of code whenever needed. It is also very useful to simplify alot of the complicated things from JavaScript, like AJAX calls and DOM manipulation.

- jQuery is a small, fast, and lightweight JavaScript library.
- jQuery is platform independent.
- jQuery means "write less do more".
- jQuery simplifies AJAX call and DOM manipulation.

jQuery Features

Following are the important features of jQuery.

- HTML manipulation
- DOM manipulation
- DOM element selection
- CSS manipulation
- Effects and Animations
- Utilities
- AJAX
- HTML event methods
- JSON Parsing
- Extensibility through plug-ins

Why jQuery is required

- It is very fast and extensible.
- It facilitates the users to write UI related function codes in minimum possible lines.
- It improves the performance of an application.
- Browser's compatible web applications can be developed.
- It uses mostly new features of new browsers.

So, you can say that out of the lot of JavaScript frameworks, jQuery is the most popular and the most extendable. Many of the biggest companies on the web use jQuery.

Some of these companies are:

- Microsoft
- Google
- IBM
- Netflix

JQuery Mobile

JQuery Mobile is a user interface framework, which is built on jQuery Core and used for developing responsive websites or applications that are accessible on mobile, tablet, and desktop devices. It uses the features of both jQuery and jQuery UI to provide API

features for mobile web applications. It was developed by the jQuery project team in the year 2010 and written in JavaScript.

Why Use jQuery Mobile?

- It creates web applications that it will work the same way on the mobile, tablet, and desktop devices.
- It is compatible with other frameworks such as PhoneGap, Whitelight, etc.
- It provides a set of touch-friendly form inputs and UI widgets.
- The progressive enhancement brings a unique functionality to all mobile, tablet, and desktop platforms and adds efficient page loads and wider device support.

Features of jQuery Mobile

- It is built on jQuery Core and "write less, do more" UI framework.
- It is an open-source framework, and cross-platform as well as cross- browser compatible.
- It is written in JavaScript and uses features of both jQuery and jQuery UI for building mobile-friendly sites.
- It integrates HTML5, CCS3, jQuery and jQuery UI into one framework for creating pages with minimal scripting.
- It includes Ajax navigation system that uses animated page transitions.

Advantages of jQuery Mobile

- It is easy to learn and develop applications if you have knowledge of HTML5, CSS3 features.
- It is cross-platform and cross-browser compatible, so you don't have to worry about writing different code for each device resolution.
- You can create the custom theme using ThemeRoller without writing the line of code. It supports all HTML5 browsers.
- It uses HTML5 along with JavaScript for easy development of web applications.

Disadvantages of jQuery Mobile

- There are limited options for CSS themes, so sites can look similar which are built by these themes.
- Applications which are developed using jQuery Mobile are slower on mobiles.
- It becomes more time consuming when you combine jQuery mobile with other mobile frameworks.
- Difficult to provide complete customized visual design.
- All the features in a device cannot be accessed by JavaScript in a browser.

Conclusion:

Thus, we have studied of jQuery and jQuery Mobile.