

Exam 98-375: HTML5 Application Development Fundamentals

Candidates for this exam are seeking to prove core HTML5 client application development skills that will run on today's touch-enabled devices (PCs, tablets, and phones). Although HTML is often thought of as a web technology that is rendered in a browser to produce a UI, this exam focuses on using HTML5, CSS3, and JavaScript to develop client applications. Before taking this exam, candidates should have solid foundational knowledge of the topics outlined in the preparation guide, including CSS and JavaScript. It is recommended that candidates be familiar with the concepts of and have some hands-on experience with the related technologies either by taking relevant training courses or by working with tutorials and samples available on MSDN and in Microsoft Visual Studio.

Objective Domain



Manage the Appplication Life Cycle

- Understand the Platform Fundamentals.
 - packaging and the runtime environment: app package, app container, credentials/permission sets, host process, leveraging existing HTML5 skills and content for slate/tablet applications
- Manage the State of an Application.
 - manage session state, app state, and persist state information; understand states of an application; understand the differences between local and session storage
- Debug and Test an HTML5-Based, Touch-Enabled Application
 - o touch gestures; understand which gestures you test on a device
- Publish and Application to a Store.
 - o understand requirements for marketplace submissions

Build the User Interface by Using HTML5

- Choose and Configure HTML5 Tags to Display Text Content.
- Choose and Configure HTML5 Tags to Display Graphics.
 - when, why, and how to use Canvas; when, why, and how to use scalable vector graphics (SVG)
- Choose and Configure HTML5 Tags to Play Media.
 - o video and audio tags
- Choose and Configure HTML5 Tags to Organize Content and Forms.
 - o tables, lists, sections; semantic HTML
- Choose and Configure HTML5 Tags for Input and Validation.

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Format the User Interface by Using CSS

• Understand the Core CSS Concepts.

o separating presentation from content – create content with HTML and style content with CSS; managing content flow --- inline vs. block flow; managing positioning of individual elements – float vs. absolute positioning; managing content overflow – scrolling, visible, and hidden; basic CSS styling

Arrange User Interface (UI) Content by Using CSS.

 using flexible box and grid layouts to establish content alignment, direction, and orientation; proportional scaling and use of "free scale" for elements within a flexible box or grid; ordering and arranging content; concepts for using flex box for simple layouts and grid for complex layouts; grid content properties for rows and columns; using application templates

Manage the Flow of Text Content by Using CSS.

regions and using regions to flow text content between multiple <div>sections – content source, content container, dynamic flow, flow---into, flow---from, msRegionUpdate, msRegionOverflow, sGetRegionContent(); columns and hyphenation and using these CSS settings to optimize the readability of text; using "positioned floats" to create text flow around a floating object

• Manage the Graphical Interface by Using CSS.

 graphics effects --- rounded corners, shadows, transparency, background gradients, typography, and Web Open Font Format; 2D and 3D transformations – translate, scale, rotate, skew, and 3D perspective transitions and animations; SVG filter effects; Canvas)

Code by Using JavaScript

Manage and Maintain JavaScript.

o creating and using functions; using Windows Library for JavaScript, jQuery, and other third---party libraries

• Update the UI by Using JavaScript.

o locating/accessing elements; listening and responding to events; showing and hiding elements; updating the content of elements; adding elements

• Code Animations by Using JavaScript.

o using animation; manipulating the canvas; working with images, shapes, and other graphics

Access Data Access by Using JavaScript.

o sending and receiving data; transmitting complex objects and parsing; loading and saving files; App Cache; datatypes; forms; cookies; localStorage

Respond to the Touch Interface.

o gestures, how to capture and respond to gestures

Code Additional HTML5 APIs.

GeoLocation, Web Workers, WebSocket; File API