



Adopted Mobile-First Approach for Online

Course Content

About the Client

The client is a not-for-profit, independent affiliate of Client. The platform publishes many articles, books, case studies, simulations, videos, learning programs, and digital tools to reach organizations, subscribers, and social media followers. The publisher bridges the gap between academicians and enterprise professionals through publications. The business educators at client's place serve a variety of audiences, like dynamic management students, education executives, corporate professionals, and more.

Business Requirements

The client has an LMS platform that serves multiple types of management courses for students, executives, and professionals. The widely recognized institution has millions of subscribers and members. The client has been providing virtual educational resources through its flash-based modules, but the advent of cutting-edge web technologies has rendered flash-based designs obsolete. The client wanted to upgrade its LMS system and convert flash-based modules to the golden standard of the HTML5 framework.

MRCC understood the volume and scale of the project to convert Flash modules to a responsive HTML5 framework. HTML5 is inherently intelligent, allowing the interactive part of the content to be a part of the code. The use of HTML5 will enable the visual and integrative content to be played on any device with equal finesse.

Challenges in Navigating Legacy Tech

As Flash players are not supported on mobile devices anymore, the client must convert Flash content to HTML5 content quickly. The HTML5 content is easy for educators and learners to use. Such content will also be displayed effectively on mobile devices, desktops, and laptops. Some of the challenges that MRCC resolved while converting Flash content to HTML5 responsive design are:

- Transitioning from legacy flash technology to align with modern web standards
- Ensuring that interactivity was responsive across devices
- Implementing complex validation logic
- Optimizing content for mobile devices with smaller screens and lower resolutions
- Embedding video in the client's framework
- Integrating newly updated course modules with existing systems



MRCC Solution to Unlock Accessibility with HTML5

In the current era of digital education, adaptability and accessibility are paramount for virtual classrooms. MRCC undertook the transformative process of converting flash designs into HTML5 format to improve accessibility across a multitude of devices. MRCC's ingenuity and resilience enabled integration and rigorous testing of interactivities to provide better educational experiences.

Technology Transition

MRCC leveraged modern web technologies to transition Flash-based interactivity to HTML5. During the conversion process, the team ensured compatibility and accessibility.

Responsive Design

While implementing the conversion, the MRCC team used design principles to adapt interactivities seamlessly to multiple screen resolutions, such as mobile phones, tablets, and laptops. The MRCC HTML5 developers assumed a minimum of five-inch screen size resolution to accommodate a wide range of mobile devices. The team developed a responsive design to optimize interactivity for multiple mobile devices.

Video Integration

MRCC embedded video content within the client framework using an external streaming server. This approach enhanced the efficiency of video delivery and playback.

Interactivity Inclusion

To align with the demands of the modern educational landscape, MRCC converted existing Flash modules to include multiple-choice assessments at the end of the modules. This helped improve student engagement and knowledge retention.

Integration

MRCC integrated the HTML5 modules with the client's existing learning systems. The team ensured that the newly updated course modules functioned harmoniously with the client's educational ecosystem.

MRCC Workflow

Technical Evaluation and Compatibility Check

The MRCC team started the project by evaluating the complexity of interactivities and assessing the scope of work required for the conversion. The next step was to determine potential challenges in ensuring cross-platform compatibility and responsiveness.

Development and Conversion

The MRCC HTML5 development team recreated interactivity using the latest web development standards and tools. The goal was to employ responsive design principles to adapt interactivity seamlessly across multiple screen sizes and devices.

Video Integration and Mobile Optimization

The MRCC team ensured efficient video delivery and embedded video content using an external streaming server. All the interactivities and media content are optimized for mobile devices, making necessary adjustments to deliver the same experience for users with smaller screens and touch-based interactions.

Compatibility Testing

The MRCC testing team conducted rigorous and iterative compatibility testing to ensure the interactivities are delivered effectively across multiple web browsers and devices. Any issues encountered were identified, addressed, and rectified to enable truly responsive design and functionality.

Seamless Integration

MRCC aligned the newly upgraded HTML5 content with the educational system of the client. All the modules were developed within the client's framework for seamless integration. The team completed quality assurance checks to ensure that the converted interactivities meet the required standards and functionalities.



MRCC Impact

MRCC embarked on a transformative process to shift from legacy Flash systems to responsive HTML5 designs. The team implemented a complex validation design and optimized the content for the mobile era.



MRCC enabled an enriched user experience for the millions of subscribers of the client. The updated HTML5 design continues to run successfully in the client's system, serving global leaders with a seamless learning experience.

MRCC Group Offices

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