

## Case Study

# AI-Accelerated Accessibility Remediation for a University's Digital Courseware

Magic  
EdTech

### The Client

The client is a leading higher education institution focused on inclusive digital learning. As part of a broader modernization effort, the client aimed to bring its online courseware in D2L up to ADA Title II and WCAG 2.2 AA standards, ensuring full accessibility for all learners.

### The Challenge

The institution needed a comprehensive audit and remediation of course templates and content within D2L. The work had to maintain instructional integrity, achieve high remediation accuracy, and avoid any disruption to ongoing course delivery.

### Critical Success Parameters

- ✓ Execute platform-native remediation to keep live courses uninterrupted.
- ✓ Use AI to triage and resolve common failures, accelerating throughput.
- ✓ Reduce testing cycles through intelligent prioritization of shared components.
- ✓ Maintain alignment through bi-weekly stakeholder reviews.
- ✓ Preserve full traceability for compliance audits.

### Our Approach

- ✓ Conducted a phased WCAG 2.2 audit of D2L templates, applying AI-driven fixes to improve HTML structure, semantics, and accessible design patterns.
- ✓ Resolved 55 percent of WCAG issues using automation to cut manual effort and accelerate turnaround times.
- ✓ Delivered all fixes directly within D2L, eliminating the need for reuploads, TOC remapping, or smoke-testing cycles.
- ✓ Provided a consolidated report combining automated findings with manual evaluations for complete visibility.



### Key Result Highlights

Identified and remediated more than **1,000** accessibility issues.

Automated workflows resolved **55%** of issues, cutting manual cycles in half.

**Zero** disruption to live course operations with platform-native execution.

Manual effort focused only on the most complex **45%** to ensure quality and precision.

AI-human hybrid model delivered fast, accurate, and scalable remediation aligned to ADA Title II and WCAG 2.2 AA.