

Building an Accessible Digital Lab Suite for a Secure Software Systems Curriculum



The Client

The client is a popular provider of higher education content and curriculum solutions in the cybersecurity domain.

The Challenge

The client needed to rapidly develop a 10-lab suite for secure software development and testing. The labs had to meet high editorial, instructional design, and accessibility standards, support multiple LMS formats, and provide access to diverse learners; all within fixed timelines and budgets. They also needed streamlined workflows to maintain quality and minimize internal review load.

Critical Success Parameters

- ✓ Develop a 10-lab suite aligned to secure software systems curricula.
- ✓ Deliver 100+ assessments, 350+ annotated screenshots, and instructor support materials.
- ✓ Ensure WCAG 2.1 AA accessibility compliance across all lab content.
- ✓ Maintain editorial quality, technical accuracy, and instructional integrity.
- ✓ Complete all deliverables within a fixed timeline and budget.
- ✓ Implement structured workflows to streamline reviews and maintain instructional rigor.

Our Approach

- ✓ Magic assembled a cross-functional team of instructional designers, developers, QA, and accessibility experts.
- ✓ Adopted a sprint-based approach combining AI-assisted drafts with expert human reviews.
- ✓ Developed 10 labs aligned to secure software lifecycle concepts.
- ✓ Embedded 100+ assessments and 350+ annotated screenshots into the lab flow.
- ✓ Integrated accessibility into content, navigation, and visual layouts from the start.
- ✓ Maintained structured biweekly client reviews with tracked action items and change logs.
- ✓ Performed continuous QA, including usability walkthroughs and peer reviews, at every milestone.



Key Result Highlights

10 labs delivered on schedule with full editorial sign-off.

40% reduction in client-side operational and editorial load through structured workflows and QA.

Accelerated production by combining AI and human review, maintaining quality standards.

Enabled rapid market launch of the new secure software curriculum product.

Established a proven, scalable workflow for future lab development.