

UQx pragmatic development lessons

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• Everything about UQx, who we are, etc.:-)



Working with the platform

VERIFIED

HKUSTx COMP102.1x

Introduction to Java Programming – Part 1

Current

Starts: July 7, 2015

HKUSTx

COMP107x

Introduction to Mobile
Application Development using
Android

Starting Soon

Starts: July 28, 2015

DelftX

TPM1x

Creative Problem Solving and Decision Making

Curren

Starts: June 28, 2015

VEIGH

UC BerkeleyX EE40LX

Electronic Interfaces: Bridging the Physical and Digital Worlds

Current

Starts: July 13, 2015

Disclaimer

As we are a partner on edx.org, we use *open edX* exclusively as a development stack, we do not

ANA101x

Human Anatomy

run it in production

Innovation and IT Management

AST111- Credit Eligible

Introduction to Solar Systems
Astronomy

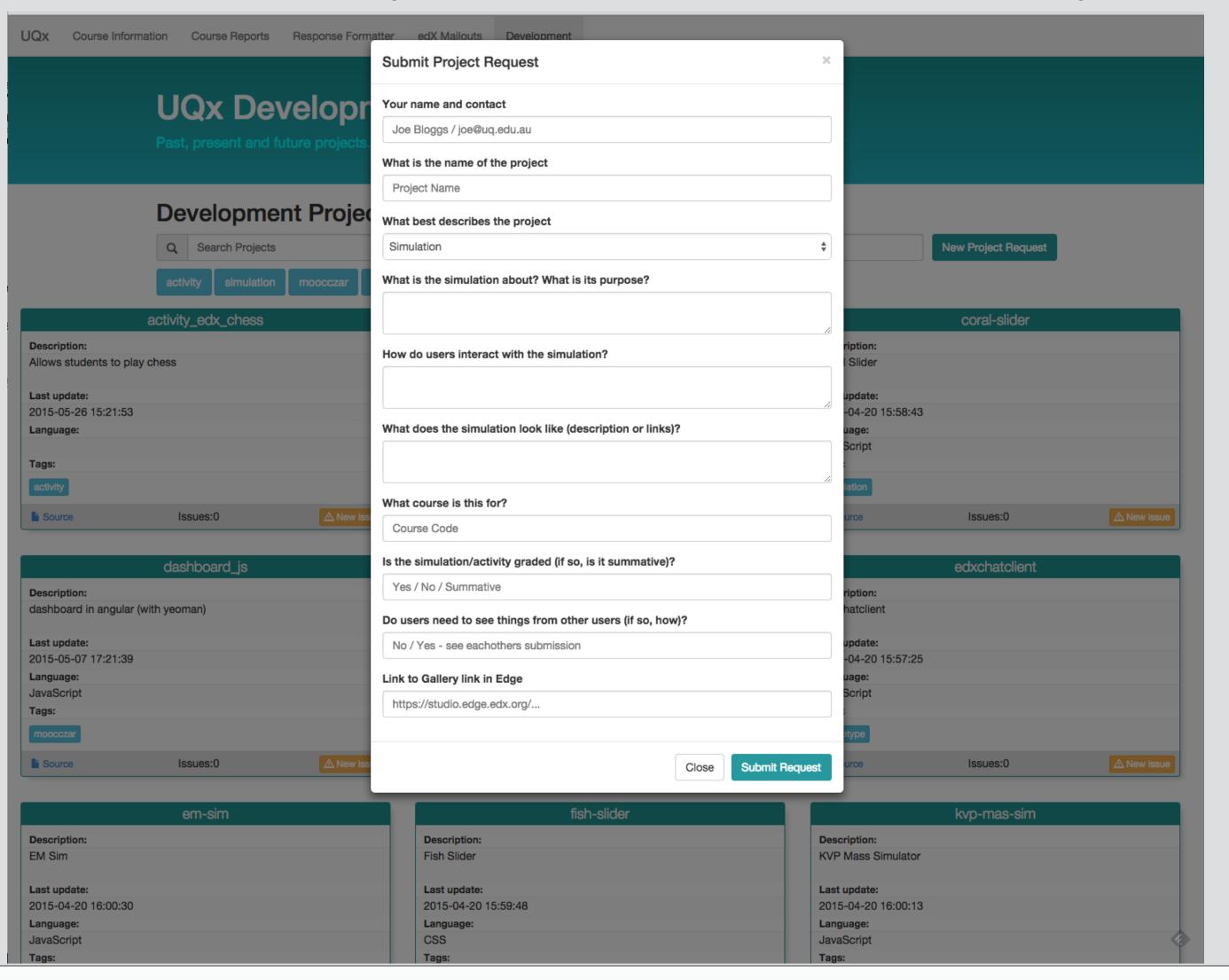


UQx

Crime101x

The Psychology of Criminal Justice

1. Course requests a tool to be developed

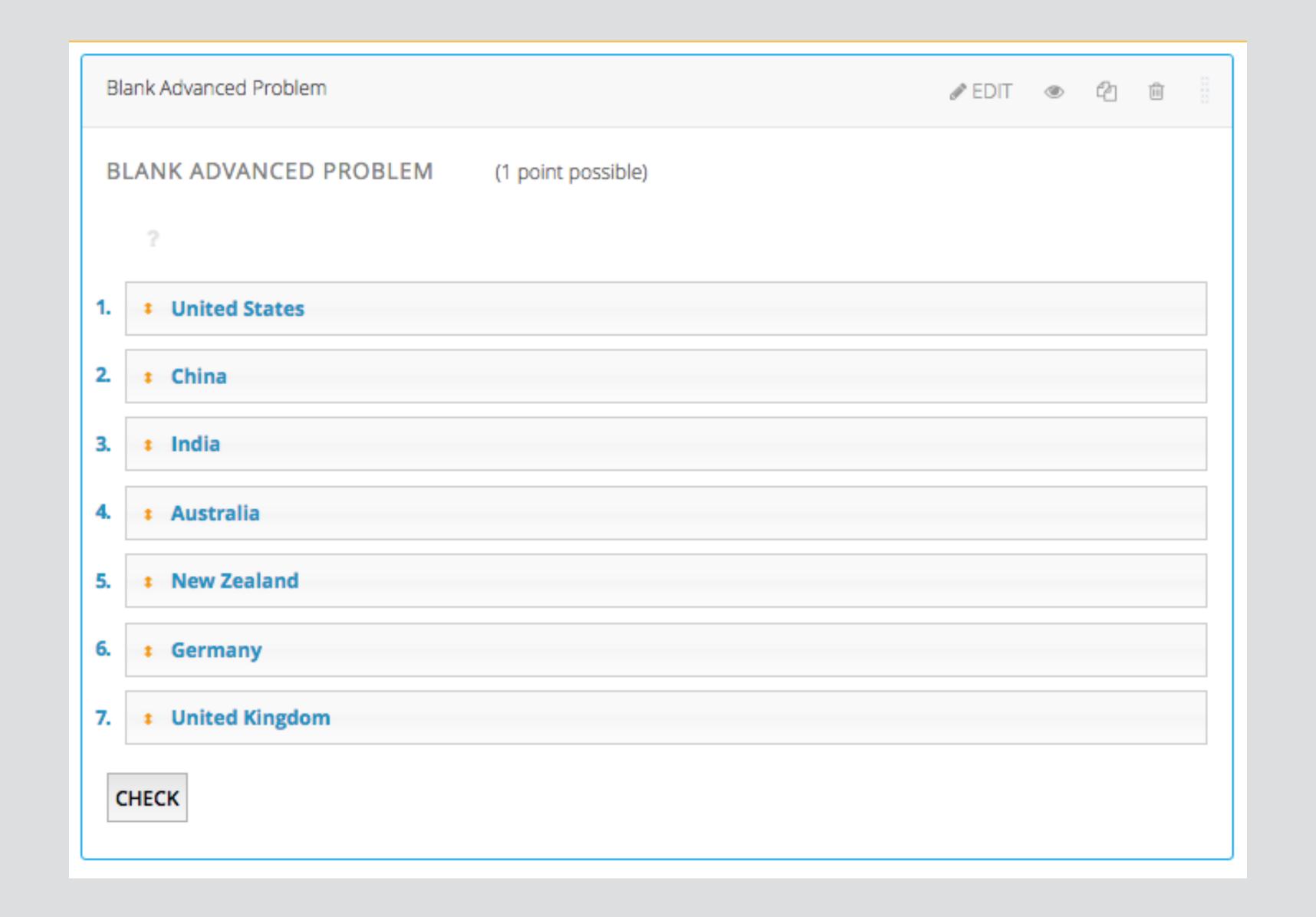


UQx Dev Process

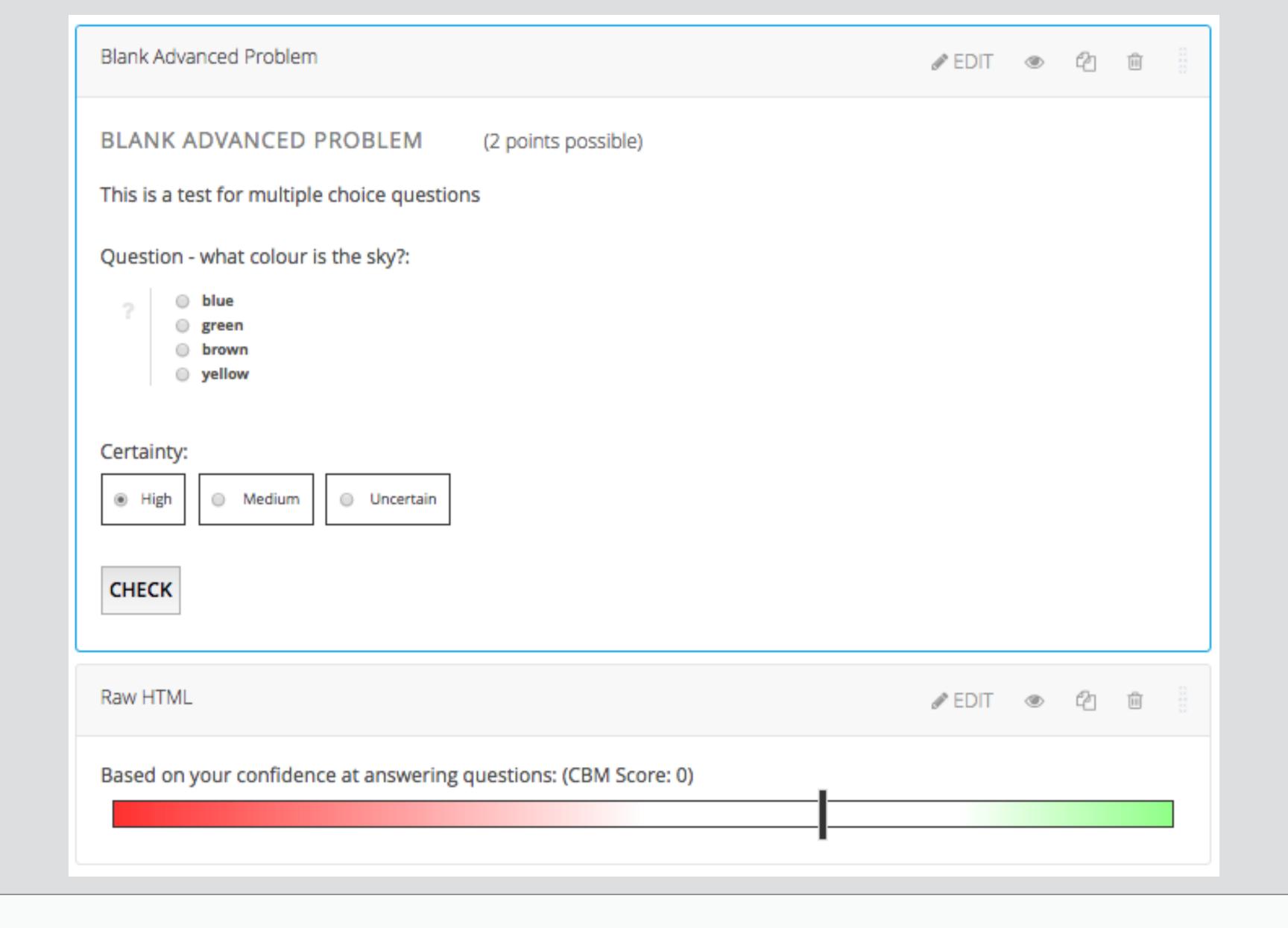
2. Based on requirements, we figure out which architecture to use

	Enhancement	Linked JS		XBlock
Language	HTML/JS/CSS	Javascript	Any	Python
Usage	Direct CMS	<script src=""></th><th>POST iframe</th><th>Django App</th></tr><tr><th>Primary limitation</th><th>Per page & maintainence</th><th>Per page & only JS</th><th>Limited interaction with edX</th><th>Dealing with edX pull requests</th></tr></tbody></table></script>		

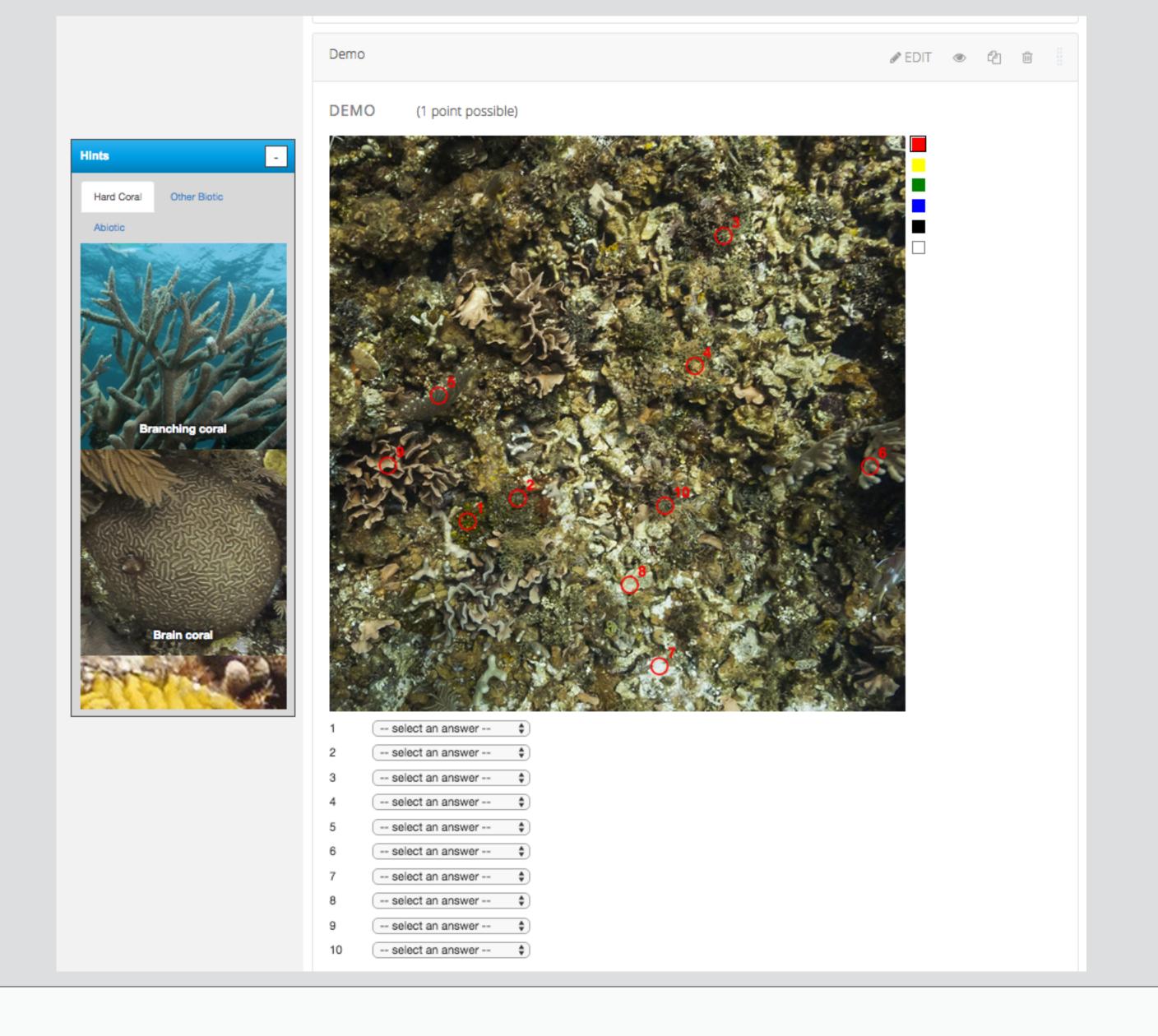
UQx Dev Process



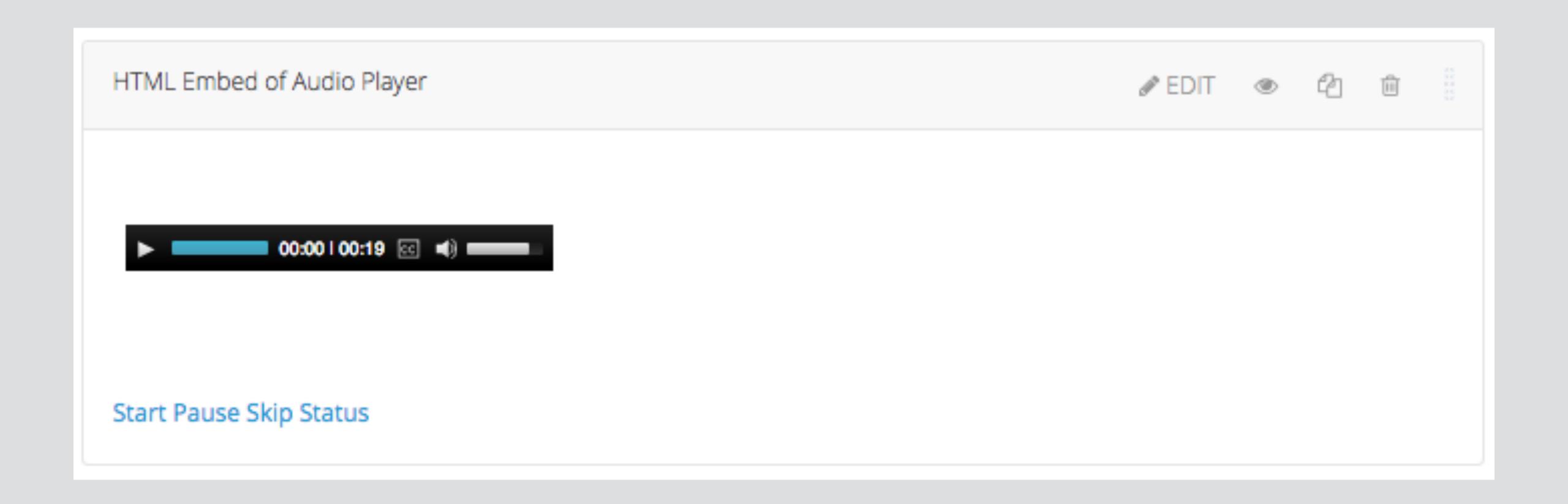
Enhancing course - new problem interfaces



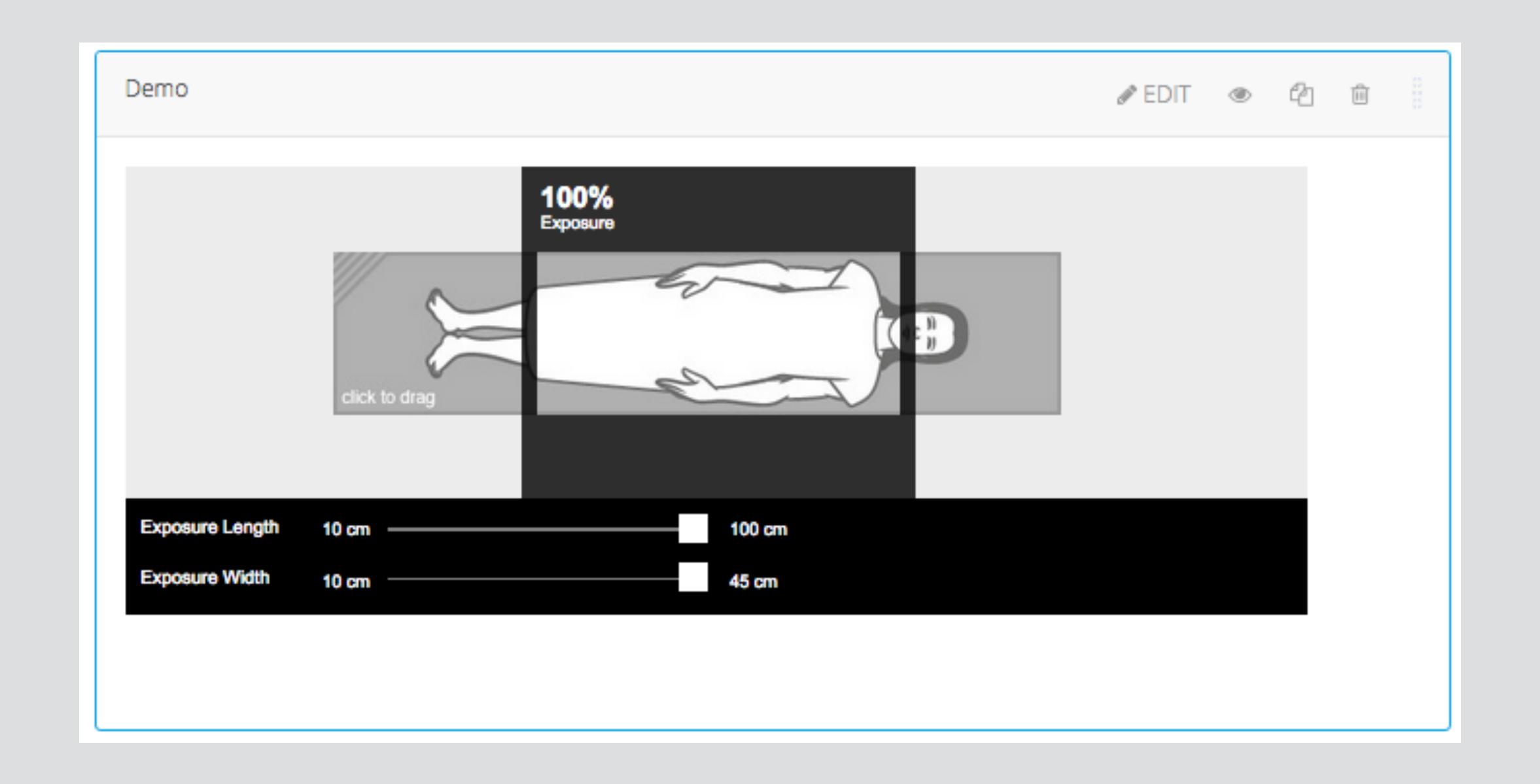
Enhancing course - cross-problem interaction



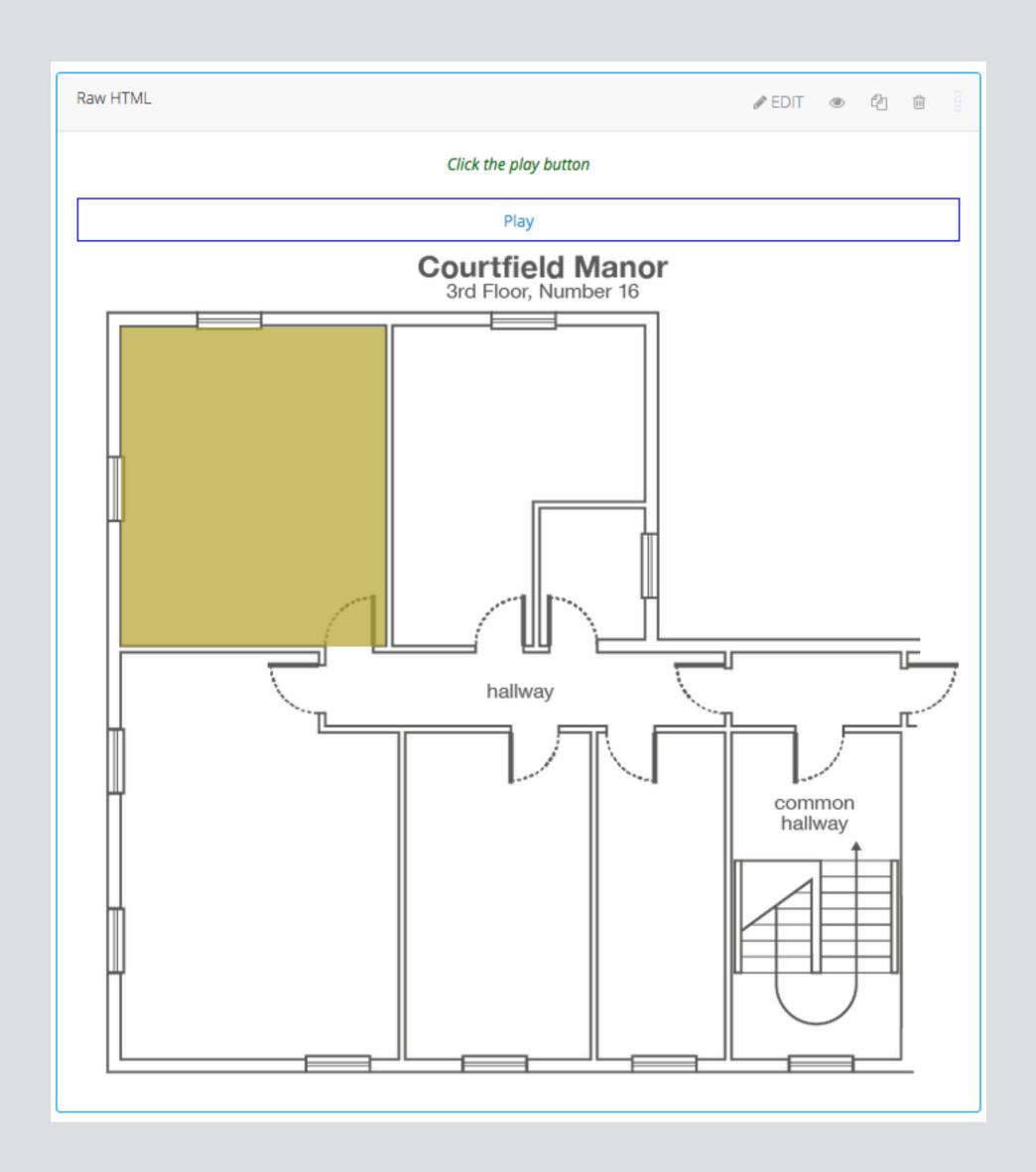
Enhancing course - enhanced problems

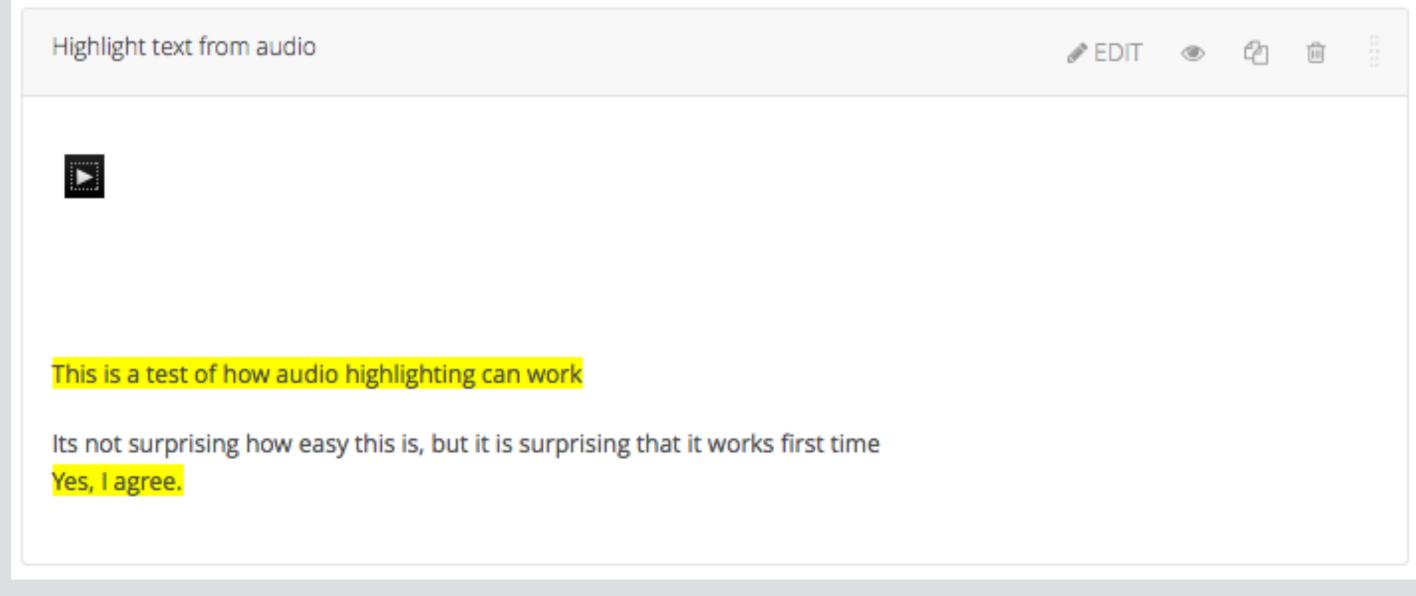


Linked Script - Audio Player

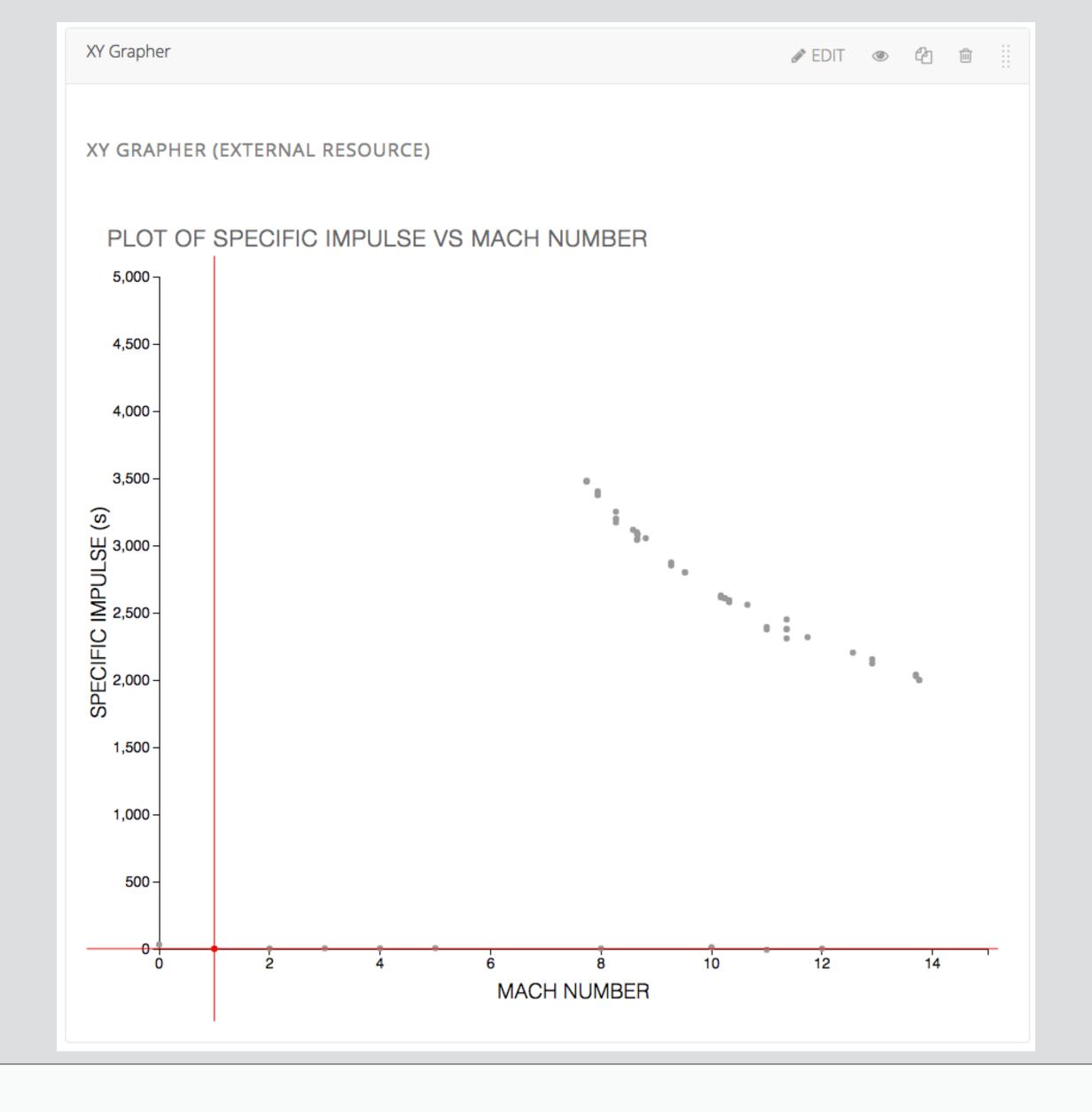


Linked Script - X-Ray simulation

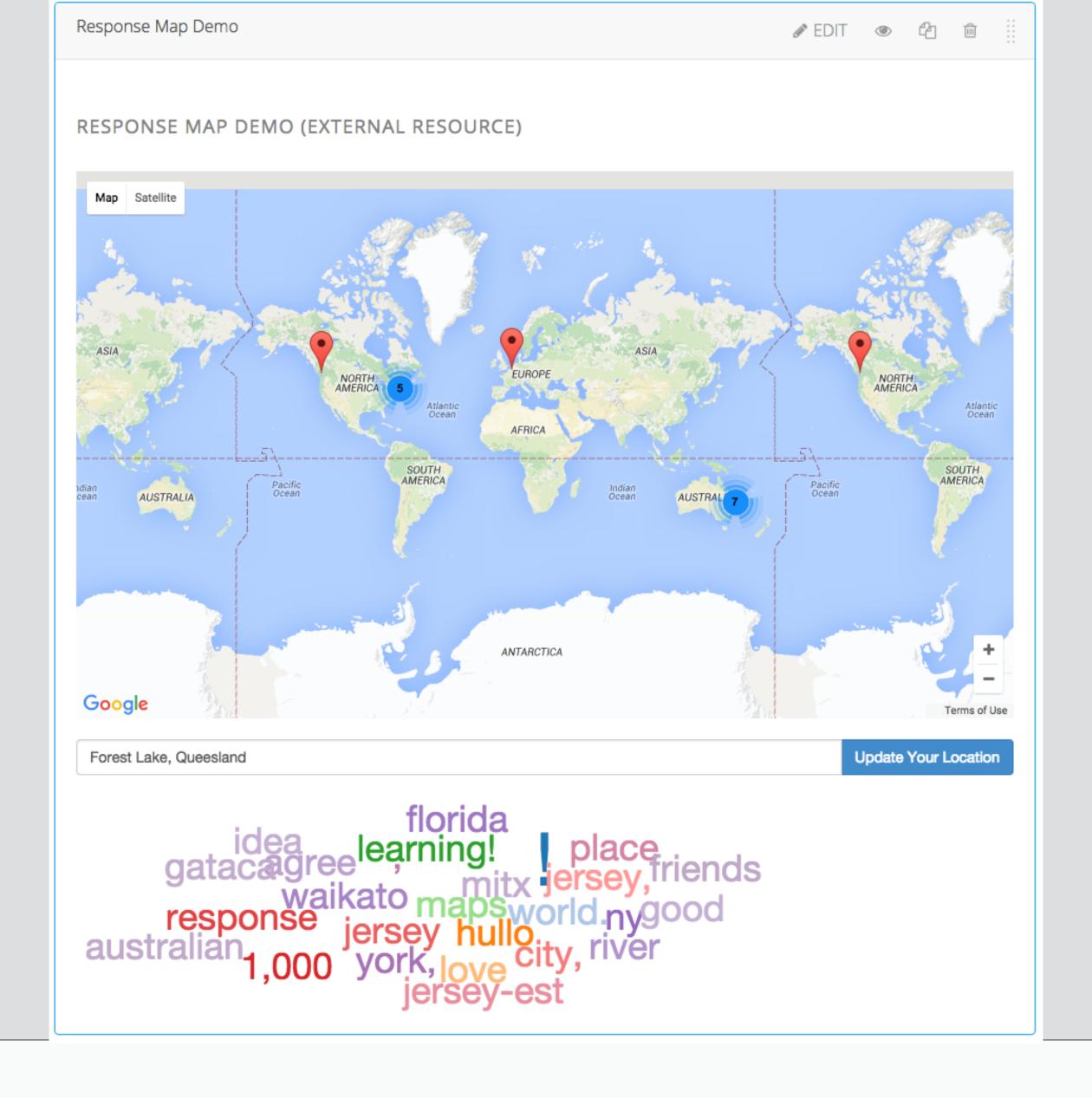




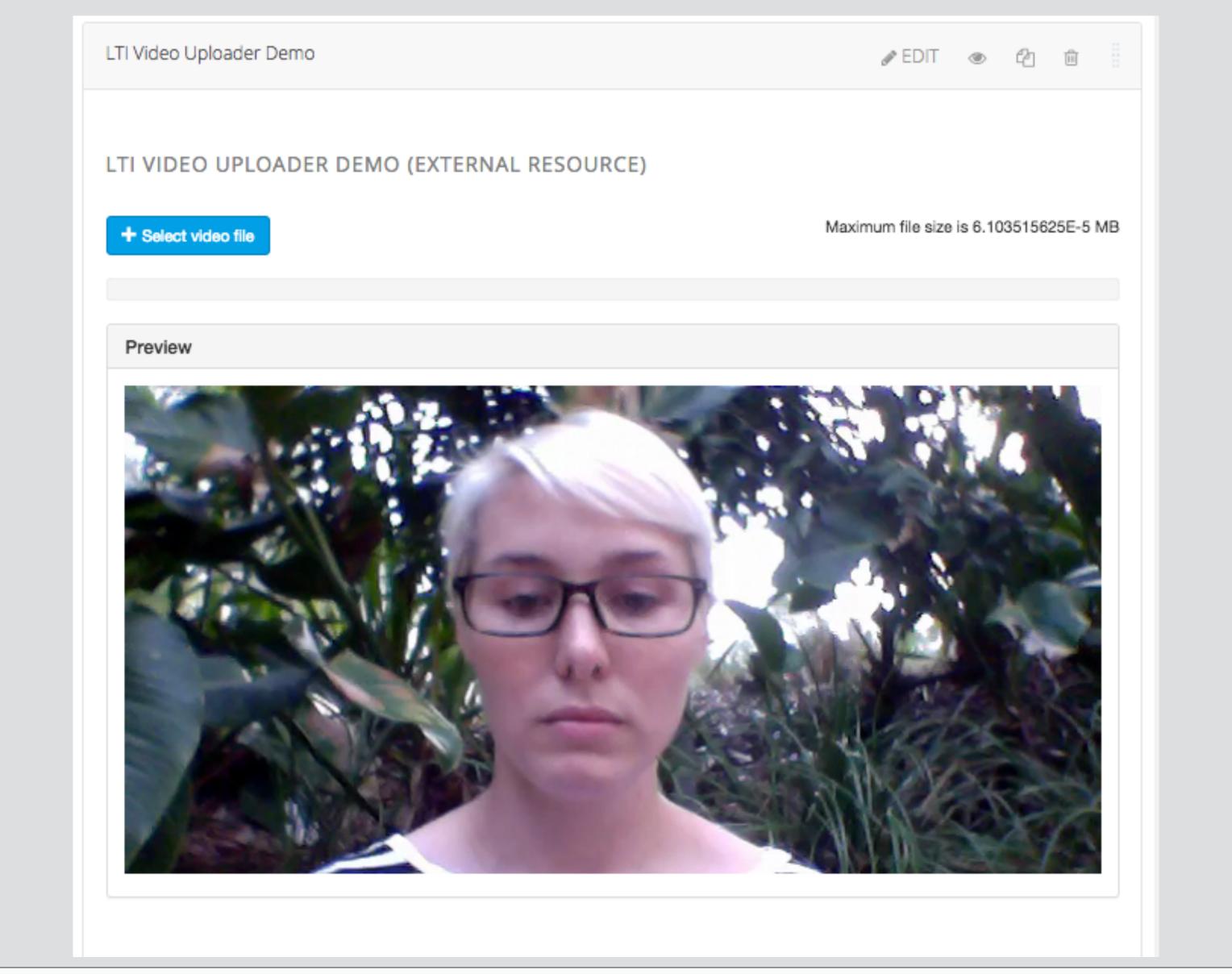
Linked Script - audio narrative interactions



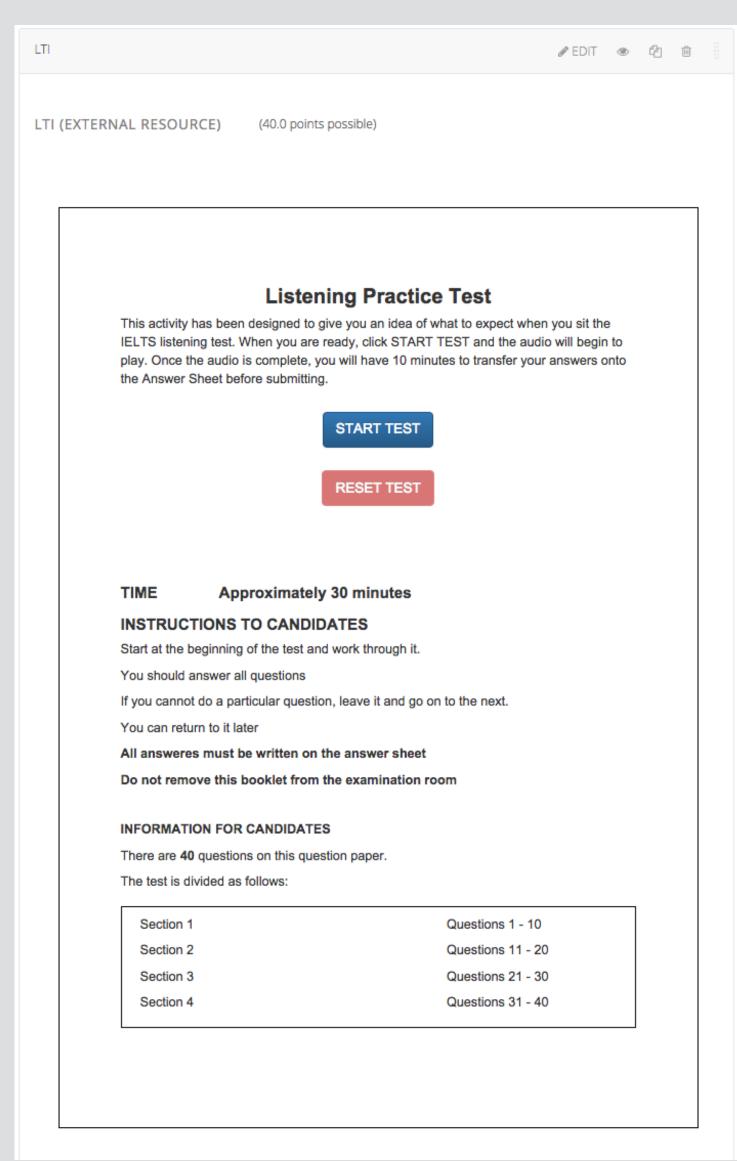
LTI Tool - XY Grapher

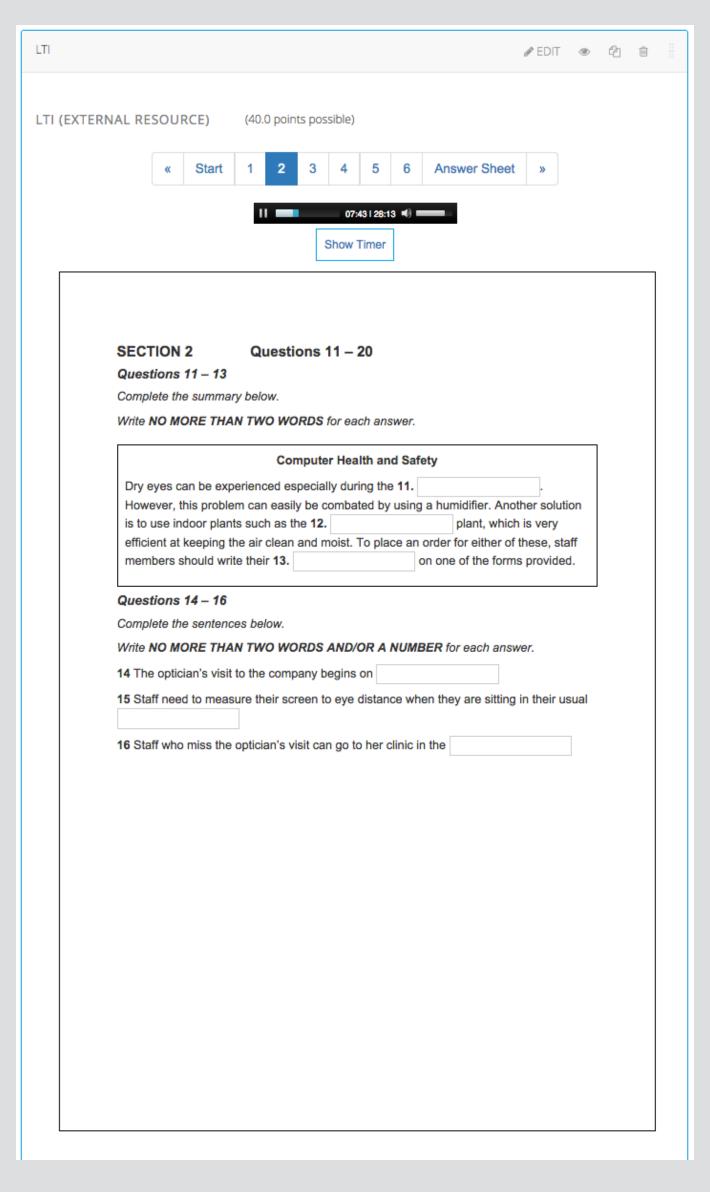


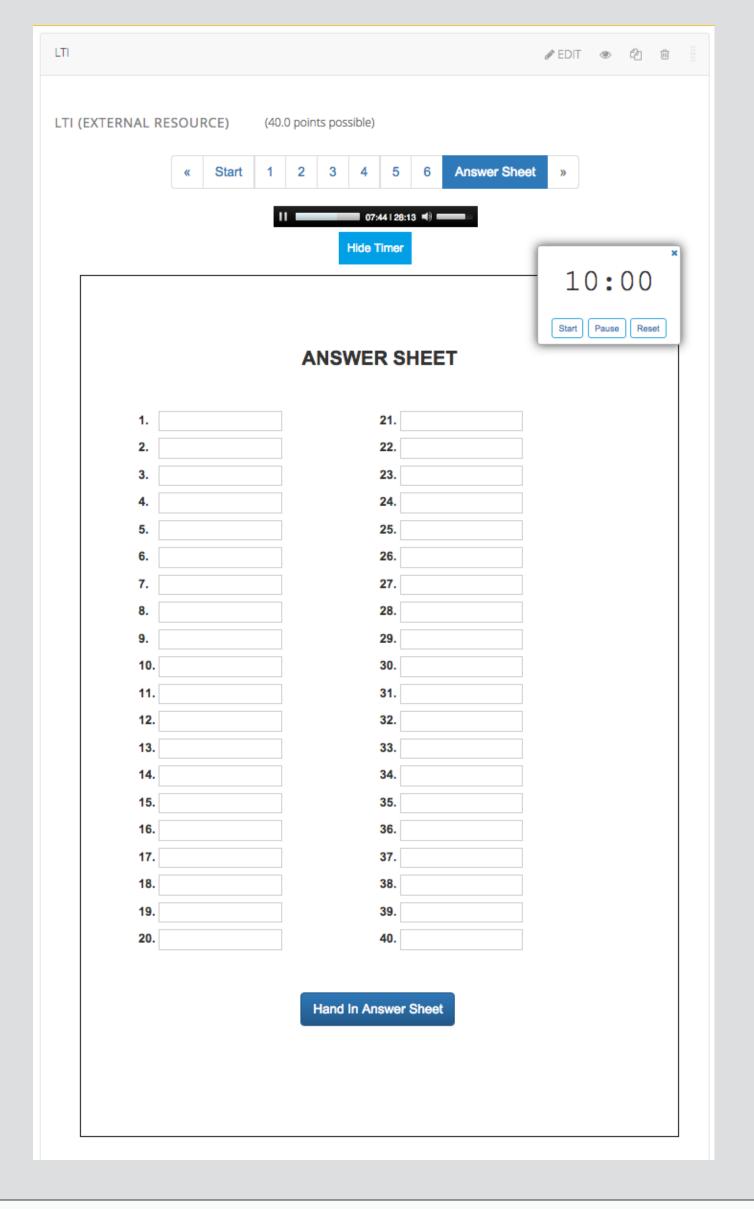
LTI Tool - Response Map



LTI Tool - Video Uploader

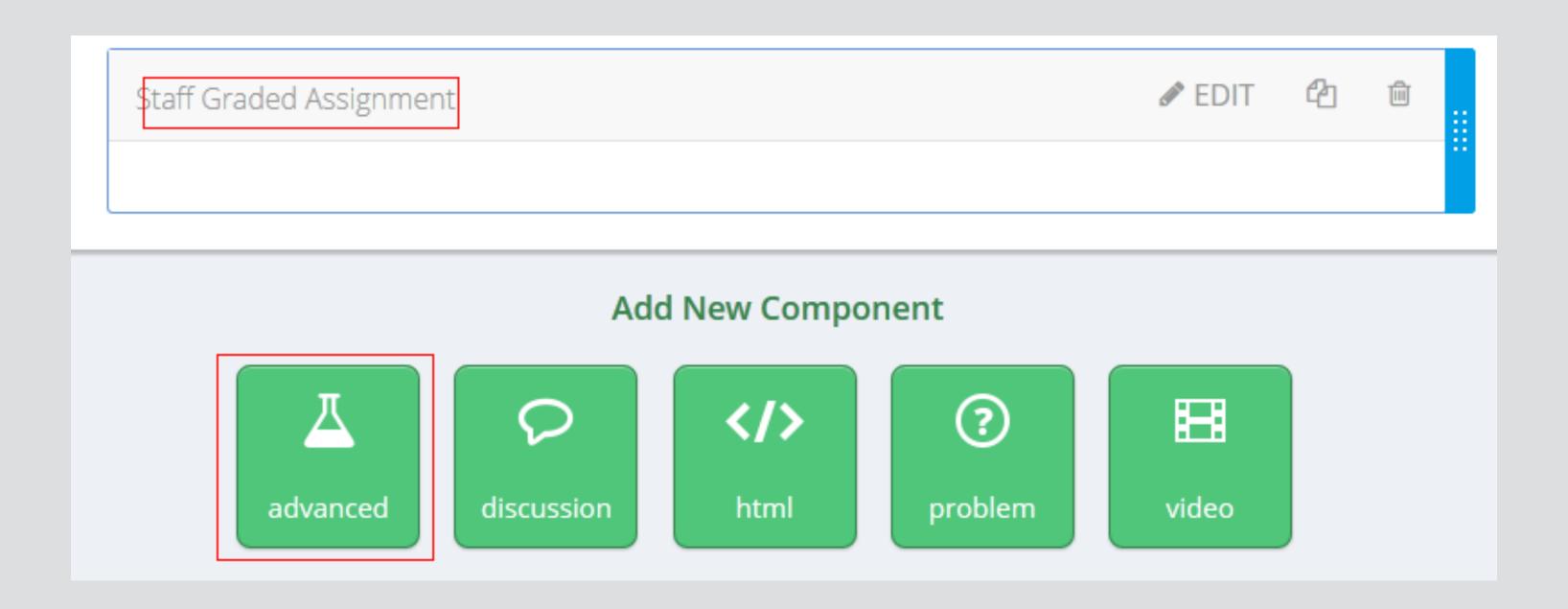






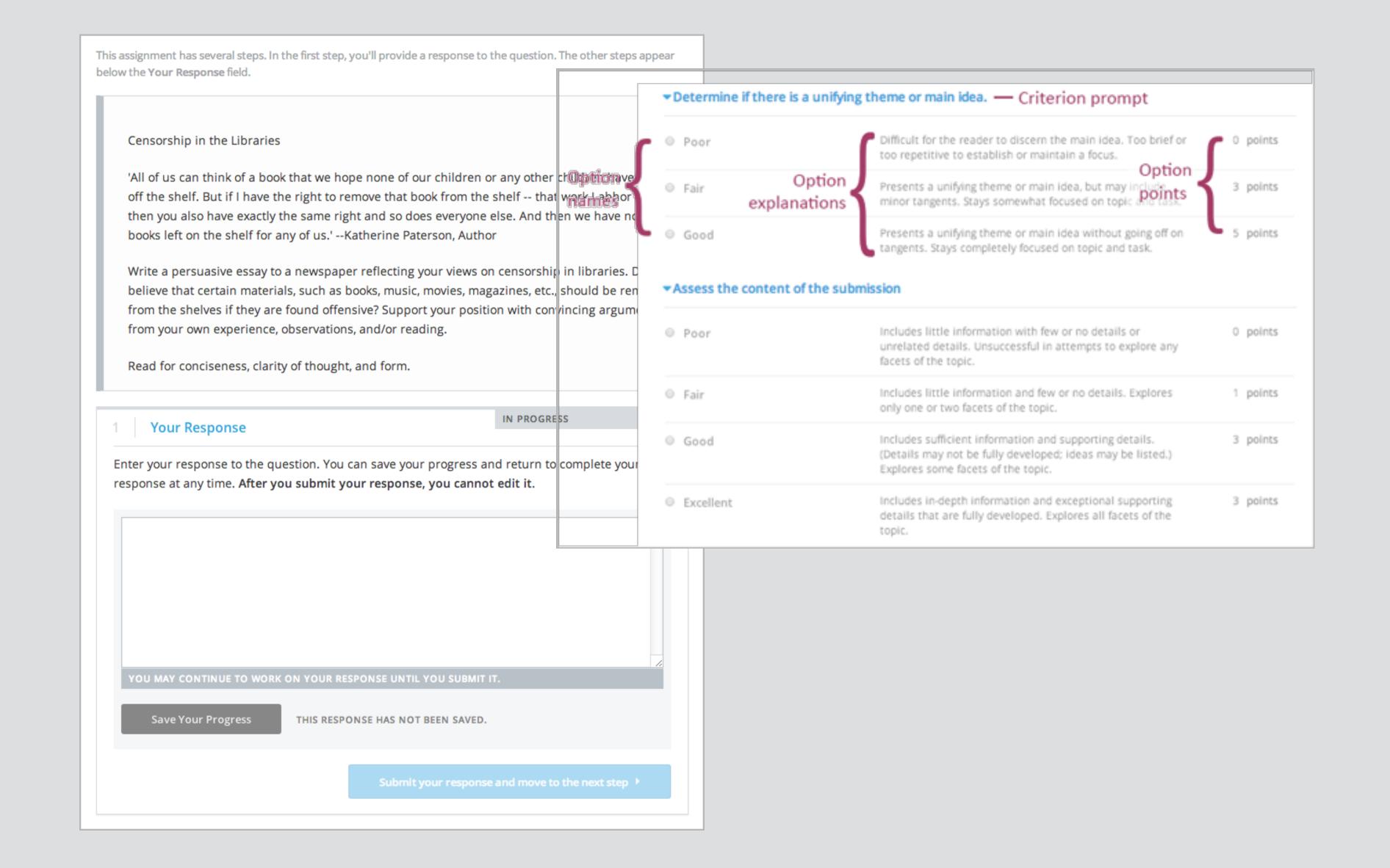
LTI Tool - IELTS Quiz

XBlock is a component architecture by edX.org for building courseware.

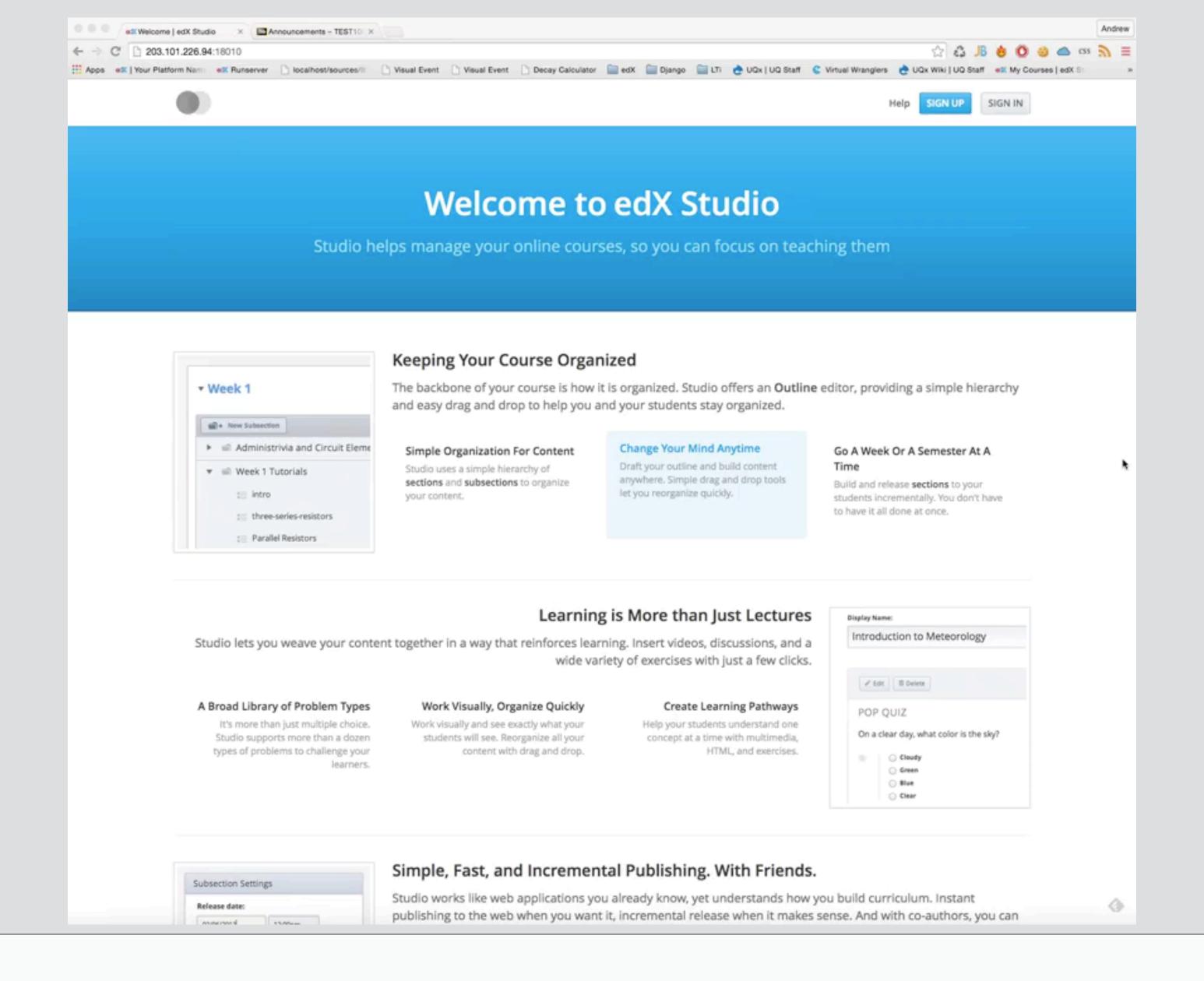


SDK and Test Suite at https://github.com/edx/XBlock

edX Extensibility

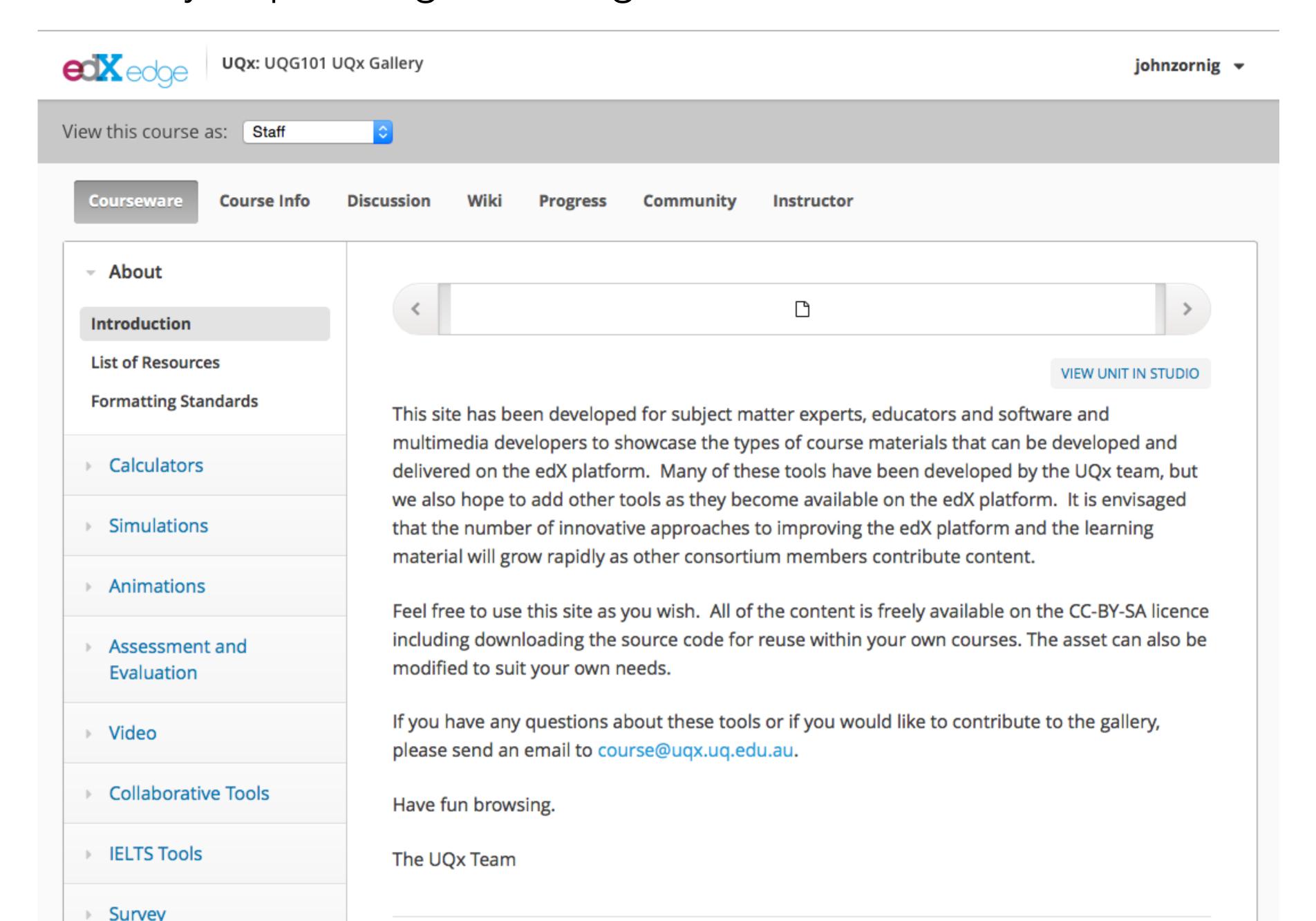


XBlock - ORA Leaderboard



Going further - edX LTI Tool Provider

UQx Gallery https://edge.edx.org/courses/UQx/UQG101/2014_T1/info



- edX provides a number of ways for us to build new methods of learning
- There is no "best method", each has pro's and con's
- A better API to interact with edX problems would greatly help in building new custom experiences
- X-Blocks are fantastic, but turn-around time makes them not feasible for individual course development

Reflections



Thank you for your time

John Zornig

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