

PRODUCT WORKING GROUP

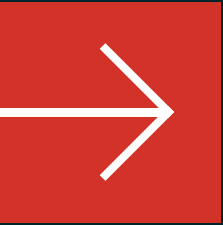
# 2023 Product Roundtable

View the slides! [tinyurl.com/OEProduct-23](https://tinyurl.com/OEProduct-23)

## DISCLAIMER

*The forward-looking product roadmap does not represent a commitment, guarantee, obligation, or promise to deliver any product or feature or to deliver any product and feature by any particular date.*





# Braden MacDonald

## CTO, OpenCraft

# Feature: Studio Copy/Paste

## IMPACT

- Makes life easier for course authors and takes us a step closer to “modular learning”.

## WORK COMPLETED

- Prototype for copying components is ready as Pull Request on GitHub

## WHAT'S NEXT

- Testing and refinement with small group of users (edX.org)

Project Status:

Development

To find out more:

[Approach Memo](#)

[GitHub Board](#)

# Feature: OARS (Open Analytics Reference System)

## IMPACT

- Helps instructors and administrators understand the impact of their courses, focused on common community use cases

## WORK COMPLETED

- Completed rounds of technical discovery and planning
- Tutor plugins sending data from LMS to dashboard + charts.

## WHAT'S NEXT

- Functional version ready in next 90 days
- Production ready in next 6 months

Project Status:

Development

To find out more:

Attend  
tomorrow's  
talk! Same  
time, same  
room

# Feature: New Theme(ability)

## IMPACT

- A modern UX for Open edX learners and a distinct visual look for the Open edX instance/site.

## WORK COMPLETED

- Overall design direction and UX established

## WHAT'S NEXT

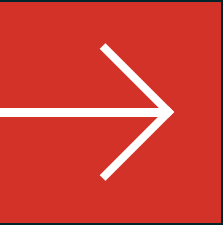
- Development: Implement the theme and improve theme-ability of latest Open edX UI (“MFEs”)
- Continue detailed UX design and respond to feedback and testing

Project Status:

Development  
& Design  
Iteration

To find out more:

[“Designing  
better Open  
edX themes”](#)



**Bryan Kersten**

**Sr. Director of Product, 2U**

# Content Libraries v2 (Blockstore)

## IMPACT

Course authors and authoring teams can build libraries of reusable course content and easily add components to a course outline.

## WORK COMPLETED

- Developed new editors (text, video, problem) that work in Studio and Libraries.
- Developed new Library MFE.
- Developed new Library Reference Block.

## WHAT'S NEXT

- Integrate new editors into Library MFE.
- Add video uploading capabilities to library.
- Port Library v1 content to new blockstore libraries.

Project Status:

Development

# Tagging & Taxonomies MVP

## IMPACT

This feature will enable course authors to add and manage tags on content in both Libraries and Studio; Admins will be able import, create and manage taxonomies to be used across their org.

## WORK COMPLETED

- Strategy document developed as a collaboration between tCRIL, 2U and OpenCraft and shared with the community.
- 2U AI-generated Lightcast skills tagging project serves as proof of concept for how closed taxonomies may be applied.

## WHAT'S NEXT

- Help us [shape the MVP approach](#).
- Kickoff of technical discovery and UI workstreams.

Project Status:

In Design

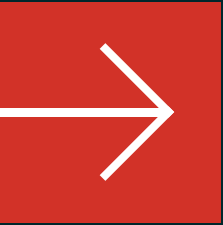
To find out more:

[Content Tagging Strategy](#)

On Slack:

#modular-learning





# Scott Dunn

## Pearson

# Feature: LTI Tool Provider

## IMPACT

- Allow course teams to export complete Open edX courses for inclusion in other LMS's.

## WORK COMPLETED

- Authentication workflow
- Added new view to render courseware

## WHAT'S NEXT

- Render course home
- Add course navigation
- Tie-in to licensing - LTI launch consumes a license

Project Status:

Development

To find out more:

[LTI launch complete](#)  
[course rendering](#)

# Feature: Sidebar Navigation

## IMPACT

- Allow users to orient themselves and navigate through the course non-linearly without having to navigate away from the content.

## WORK COMPLETED

- Proof-of-concept MFE that can be shown/hidden, showing 2 level hierarchy and completion status.

## WHAT'S NEXT

- Refine UX - for example, still show breadcrumbs?
- Design and implement mobile experience

Project Status:

# Discovery

To find out more:

Reach out to @scottrish  
on Open edX Slack.

# Feature: LTI 1.3 Consumer

## IMPACT

- Restore parity with LTI 1.1 consumer

## WORK COMPLETED

- Migrated custom parameter support from 1.1
- Re-enabled CCX support

## WHAT'S NEXT

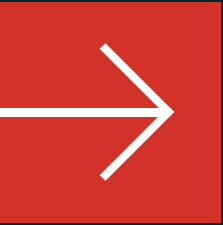
- Re-enable PII - in progress
- Add multi-tenancy support - in discovery

Project Status:

Development

To find out more:

Reach out to @scottrish  
on Open edX Slack.



**Brad Brown**

**Product Manager, 2U**

# Course Authoring Public APIs

## IMPACT

- Replicate existing course content from a central location to edX.org
- Efficiently maintain/edit the replicated courses when changes occur over time

## WORK COMPLETED

- Discovery and design for MVP requirements (risk mitigation)
- Testing with two key stakeholders (Bootcamps and external partner) for iterative feedback

## WHAT'S NEXT

- First port, read only content (phase 2)
- Images, videos, editing, grading (phase 3)

Project Status:

**In Design**

<https://2u-internal.atlassian.net/wiki/spaces/TNL/pages/340459573/Spec+Memo+API-Based+Management+of+edX+Course+Blocks+Outlines+and+Settings>

# Studio Overhaul

## IMPACT

- New functionality that makes authoring easier (for avg. user) on a new tech stack that enables us to build faster

## WORK COMPLETED (relationship to libraries/modular content)

- Text editor (tinyMCE toolbar for improved styling)
- Video editor settings (updated settings/widgets)
- Problem editor\* (toolbar in questions/feedback, settings, markdown not required in visual prob editor)

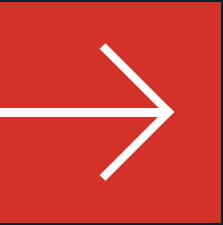
## WHAT'S NEXT

- Video editor uploads enhancement (fewer clicks)
- Bulk delete static assets (fewer clicks)
- Folder structure

Project Status:

# Development

\*Launching on edx.org in the next week!



**Marco Morales**

**Founder, Schema Education**



# Mobile Strategy / Roadmap [FC-0011]

## IMPACT

This project aims to develop and present a mobile strategy for the Open edX project that aligns with TCRIIL's mission of providing a teaching and learning platform that is accessible globally, even in limited bandwidth environments.

## WORK COMPLETED

- Assessment of Raccoon Gang's mobile prototypes as future Open edX mobile app repositories
- Discovery of mobile learning app exemplars, accessibility focused apps, limited bandwidth apps, offline mode apps.
- Feature / capability index for current + Raccoon Gang mobile apps

## WHAT'S NEXT

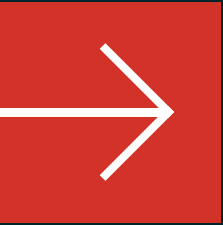
- Shared Community Mobile Product Roadmap
- Migration plan for shift to RG apps as Open edX mobile default

Project Status:

In  
Discovery

To find out more:  
[bit.ly/oemobile](https://bit.ly/oemobile)

On Slack:  
[#mobile-prod-strategy-fc-0011](#)



# Felipe Montoya

CTO, eduNEXT

# Feature: Survey Report

## IMPACT

- Acquire data about the platform adoption in the world

## WORK COMPLETED

- Report can be generated manually via the admin UI
- Report summary is sent to an aggregated tCRIL table

## WHAT'S NEXT

- Include celery-beat as an official dependency to make the report generation automatic with a certain frequency

Project Status:

Production/  
Development

To find out more:

<[roadmap](#)>

<[design doc](#)>

# Course modes management

## IMPACT

- Course teams can create course-modes through Studio without the assistance of operators/admins

## WORK COMPLETED

- Proof of concept PR
- Data backed business case with ~37k courses
- Proposal of UI

## WHAT'S NEXT

- Final UI design and frontend architecture
- Backend final implementation

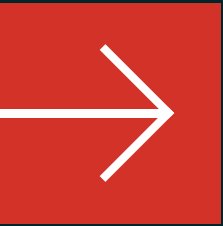
Project Status:

In Design

To find out more:

[roadmap issue](#)

[<concept PR>](#)



# Daniel Silber-Baker

## Product Manager, 2U

# Feature: Social Sharing



## IMPACT

- Allows users to share authorized content with their networks to increase visibility of edX content

## WORK COMPLETED

- Allowing course authors to select videos that are allowed to be publicly shared
- Allowing learners to share videos from an edX course to Twitter

## WHAT'S NEXT

- Allowing learners to share to additional social media sites (Instagram, LinkedIn)
- Expand feature to additional courses

Project Status:

# Development

To find out more:

Reach out to  
dsilber-baker  
on Open edX  
Slack

# Feature: Interactive Learning

## IMPACT

- Improve learning experience on edX platform by increasing opportunities for interaction and participatory learning.

## WORK COMPLETED

- In the “understand and define” phase:
  - Interaction and participatory learning was rated as one of our top areas for improvement in the most recent Gap Analysis Survey with partners
- Gathering insight into what types of interactions would spark excitement for course teams and learners

## WHAT'S NEXT

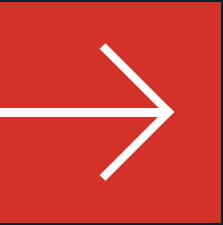
- Develop low fidelity prototypes of potential features for user reactions and feedback

Project Status:

Early  
Discovery

To find out more:

Reach out to  
dsilber-baker  
on Open edX  
Slack

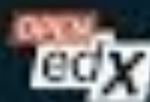


**Faqir Bilal**

**Product Lead, Edly**



# H5P XBlock



Project Status:  
Production

To find out more:

[faqir.bilal@edx.io](mailto:faqir.bilal@edx.io)

[regis@overhang.io](mailto:regis@overhang.io)



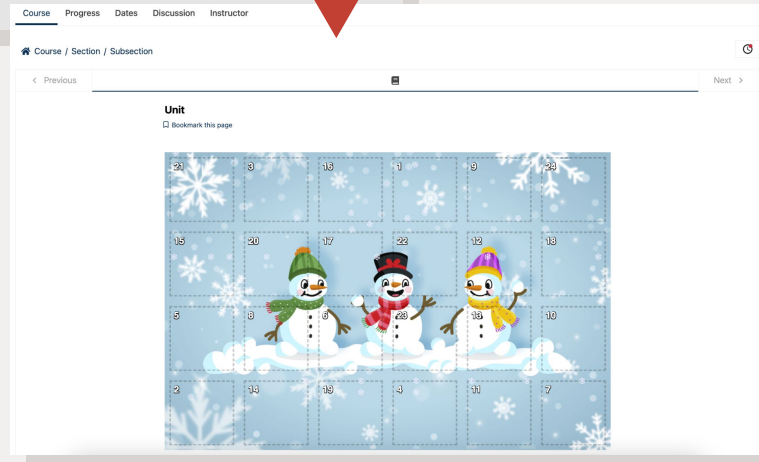
# H5P XBlock

Editing: H5P Content

Display Name   
Display name for this module

Upload H5P content  multiple-choice-713.zip  
Extracting(50%)  
Currently: find-the-hotspot-3024.zip Upload time:2022-08-02T06:12:39.850074

Show H5P player frame   
whether to show H5P player frame and button



Project Status:  
**Production**

To find out more:

[faqir.bilal@edly.io](mailto:faqir.bilal@edly.io)

[regis@overhang.io](mailto:regis@overhang.io)

# H5P XBlock

## IMPACT

- Seamless integration of rich H5P content
- Simple authoring process

## WORK COMPLETED

- <https://github.com/edly-io/h5pxblock/>
- Completion, grading, learner state save
- No need for an H5P server

## WHAT'S NEXT

- Done! Moving on to the next adventure 🕶️

Project Status:

Production

To find out more:

[faqir.bilal@edly.io](mailto:faqir.bilal@edly.io)

[regis@overhang.io](mailto:regis@overhang.io)



# Contemplate

Module 2 / Component 3

**Component 3**

[Bookmark this page](#)

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**Course Plan**

This assignment has several steps. In the first step, you'll provide a response to the prompt. The other steps will appear below as you progress through the course.

**Learning Outcomes**

**SMART Learning Outcomes**

**Assessments**

A prompt asking the learner to write the assessments for each of the learning outcomes they have identified in the previous component.

*For example: Example learning outcome and its corresponding assessment idea.*

Typing ...

All changes are automatically saved

[Preview](#) [Download Course Plan](#)



## Artifact Name

This assignment has several steps. In the first step, you'll provide a response to the prompt. The other steps will appear below as you progress through the course.

### Component Name

Now that you know how to write Learning Outcomes, write at least 3 course-level Learning Outcomes for your course.

*For example: Students will be able to make an argument about solving educational issues.*

- Learning Outcome 1
- Learning Outcome 2
- Learning Outcome 3

### Component Name

Now that you know how to write Learning Outcomes, write at least 3 course-level Learning Outcomes for your course.

*For example: Students will be able to make an argument about solving educational issues.*

- Learning Outcome 1
- Learning Outcome 2
- Learning Outcome 3
- Learning Outcome 4
- Learning Outcome 5
- Learning Outcome 6

Project Status:  
**Production**

To find out more:

[faqir.bilal@edly.io](mailto:faqir.bilal@edly.io)

[regis@overhang.io](mailto:regis@overhang.io)



# Contemplate

## IMPACT

- Develop a personalized journal or artifact based on guided prompts throughout the course.
- Provides prompts at key points throughout the course, so learners can actively engage with the material and develop tailored resources.
- Personalized learning: More meaningful and effective LX

## WORK COMPLETED

- Advanced organizer, learning journal, personalized learning summary,

## WHAT'S NEXT

- Explore additional use cases and course applications to broaden the tool's impact

Project Status:

# Production

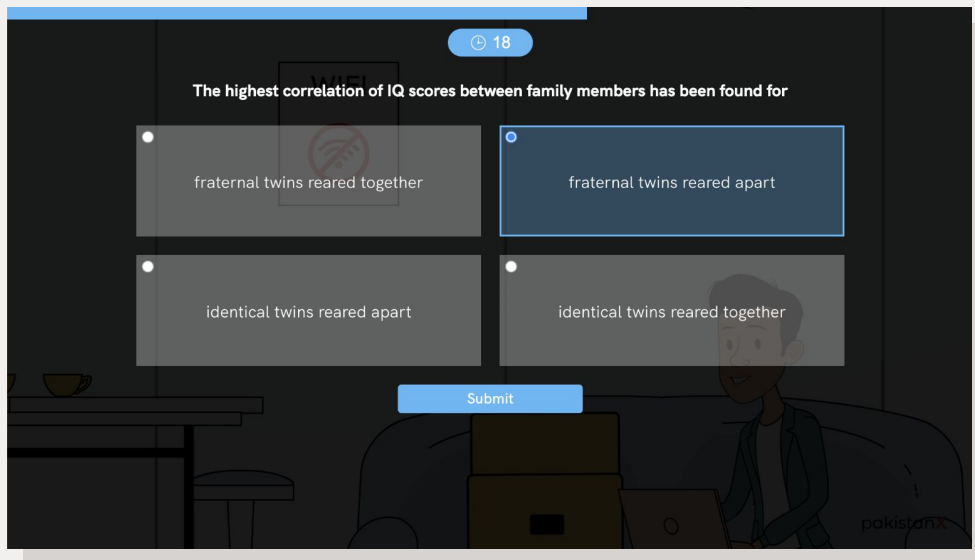
To find out more:

[faqir.bilal@edly.io](mailto:faqir.bilal@edly.io)

[regis@overhang.io](mailto:regis@overhang.io)



# WatchIQ



Project Status:  
**Production**

To find out more:

[faqir.bilal@edly.io](mailto:faqir.bilal@edly.io)

[regis@overhang.io](mailto:regis@overhang.io)



# WatchIQ

## IMPACT

- Blend interactive, timed activities in video-based learning
- Promotes active engagement, reinforces comprehension, and provides real-time feedback to learners, enhancing the learning experience.
- Significant improvement over traditional video-based learning tools.

## WORK COMPLETED

- Unlimited multiple choice questions
- Optional timer and feedback

## WHAT'S NEXT

- Collect user feedback to further refine and optimize the plugin



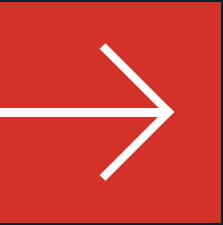
Project Status:

# Production

To find out more:

[faqir.bilal@edly.io](mailto:faqir.bilal@edly.io)

[regis@overhang.io](mailto:regis@overhang.io)



**Régis Behmo**

**Overhang.IO founder**





# Messenger

(Facebook Media)

The screenshot displays the Facebook Messenger interface. On the left is a chat list with a search bar containing 'Teh'. The list includes contacts: Tehreem Sadat (message: 'you: Thanks for the head up!'), Mehmood Tahir (message: 'you: Thanks for the head up!'), Jerry Seinfeld (message: 'Whats up?'), James Anderson (message: 'you: Lets catchup tomorrow aftern...'), and Elaine Marry (message: 'Up for a quick call?'). A red arrow points from the chat list to the main chat window. The main chat window is titled 'George Constanza' and shows a conversation starting with 'Start a conversation with George.' followed by a message from Tehreem Sadat: 'Hey George, how are you doing?'. The bottom of the chat window has a text input field with placeholder text 'Lorem ipsum dolor sit amet, consectetur adipiscing elit.' and a send button.



Project Status:  
**Production**

To find out more:

[faqir.bilal@edly.io](mailto:faqir.bilal@edly.io)

[regis@overhang.io](mailto:regis@overhang.io)

Source: WikiLearn



# Messenger

(Edly/WikiMedia)

- student↔teacher conversations (one-to-one & one-to-many)
- student↔student conversations (optional)
- More personal communication

## WORK COMPLETED

- Design, development & deployment
- Fully integrated with the LMS

## WHAT'S NEXT

- Publish as a plug-n-play Tutor plugin.

Project Status:

# Production

To find out more:

[faqir.bilal@edly.io](mailto:faqir.bilal@edly.io)

[regis@overhang.io](mailto:regis@overhang.io)



# Pocket-sized (XBlock)



**Instructions**

Nobody becomes an expert overnight.  
You're embarking on a learning journey and its going to take time.

Time required: 15 minutes

START >

STAFF DEBUG INFO

< PREVIOUS    1. Microlearning    NEXT >

**Map out a plan.**

Chances are you're already juggling with studies or workload.

So that the victim's privacy is violated.    So that the victim's privacy is not violated.

Something else, other than this.    I need to check the content again.

SUBMIT

< PREVIOUS    1. Microlearning    NEXT >

**Stay focused.**

Cut out distractions laser in your focus, and you'll get there!

▶ 0:00

1. Microlearning

< PREVIOUS    1. Microlearning    NEXT >

Project Status:  
**Production**

To find out more:  
[faqir.bilal@edly.io](mailto:faqir.bilal@edly.io)  
[regis@overhang.io](mailto:regis@overhang.io)

Source: [www.ilmx.org](http://www.ilmx.org)



# Pocket-sized (XBlock)

## IMPACT

- More interactive and engaging courses
- Easy-to-design course units

## WORK COMPLETED

- Carousel-like unit to display slides with: videos, images, MCQ, audio...
- Lighter and easier to implement than SCORM

## WHAT'S NEXT

- Tell us about your interest! 🙋
- Distribute as an open source XBlock



Project Status:

# Production

To find out more:

[faqir.bilal@edly.io](mailto:faqir.bilal@edly.io)

[regis@overhang.io](mailto:regis@overhang.io)

# Mu - Course Authoring for Humans



## IMPACT

- Write courses from a text editor
- Collaborate and share courses on GitHub
- Streamline the course creation process

## WORK COMPLETED

- <https://github.com/overhangio/mu/>
- Conversion between multiple formats: Markdown, HTML5, Open edX OLX
- Support for a limited selection of XBlocks: Video, Free text question, Multiple choice question, Raw HTML

## WHAT'S NEXT

- Collect user feedback 🙋 and add support for other content types

Project Status:

Production

To find out more:

[faqir.bilal@edly.io](mailto:faqir.bilal@edly.io)

[regis@overhang.io](mailto:regis@overhang.io)



# Jupyter XBlock



The screenshot shows a Jupyter notebook interface. At the top, there are navigation buttons: '< Previous', a green checkmark icon, and 'Next >'. Below this, the notebook title is 'Jupyter 2' with a 'Bookmark this page' link. The main content area is titled 'Jupyter notebook: EngComp (External resource)' and includes a 'D/JDT' badge. A file browser on the left shows a directory structure: '/ EngComp1\_offtheground / notebooks\_en /'. A table lists files with their names and last modified times:

Name	Last Modified
1_Interacti...	2 hours ago
2_Jupyter...	2 hours ago
3_Exampl...	2 hours ago
4_NumPy...	2 hours ago
5_Linear...	2 hours ago

The main content area displays a text cell titled 'Interacting with Python'. The text includes a Creative Commons license notice, an introduction to the 'Engineering Computations' series, and sections titled 'What is Python?' and 'Python is an interpreted language...'. The status bar at the bottom shows 'Simple', '0', 'Python 3 (ipykernel) | Idle', 'Mode: Command', 'Ln 1, Col 1', and '1\_Interacting\_with\_Python.ipynb 0'. A 'STAFF DEBUG INFO' button is visible in the bottom right corner.

Project Status:  
**Production**

To find out more:  
[faqir.bilal@edly.io](mailto:faqir.bilal@edly.io)  
[regis@overhang.io](mailto:regis@overhang.io)



# Jupyter XBlock

## IMPACT

- Enable students to write Python code without leaving the LMS
- Actually interactive programming environment

## WORK COMPLETED

- <https://github.com/overhangio/jupyter-xblock>
- LTI Integration with a self-hosted JupyterHub cluster
- Pull notebooks from any public GitHub repository
- Support for other programming languages? (Ruby, NodeJS, Lua, etc.)

## WHAT'S NEXT

- Grading
- 1-click JupyterHub cluster?

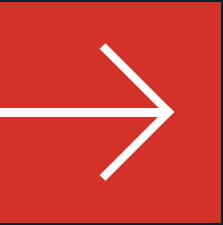


Project Status:

# Production

To find out more:

[faqir.bilal@edly.io](mailto:faqir.bilal@edly.io)  
[regis@overhang.io](mailto:regis@overhang.io)



**Anna Aldric**

**Senior Product Manager, 2U**



# Recommended List of LTIs

## IMPACT

- Compiling a searchable list of vetted and recommended learning tools, maintained and updated by 2U/edX, to be shared with TCRIL

## WORK COMPLETED

- Compile merged list of all learning tools in 2U/edX digital ecosystem

## WHAT'S NEXT

- Vet and verify tool list, by privacy/security, pedagogy and function
- Create open list of tools searchable by learning category or tool function

Project Status:

# Development

To find out more:

Reach out to  
aaldric@2u on  
Open edX Slack

# LTI Marketplace

## VISION

- “One click install” for recommended list of LTI tools in the marketplace.

## PRE-WORK

- Approach and spec for needed work in partnership with TCRIL for LTI configuration improvements
- Back end work, including recommended LTI list; teams: Engineering, UI, Product

## INITIATIVE

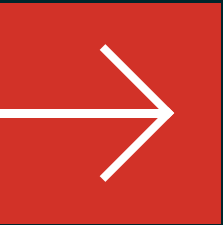
- 2U/edX + TCRIL: Product, UI, Engineering teams to collaborate on LTI marketplace work

Project Status:

Discovery/  
Design

To find out more:

Reach out to  
aaldrice@2u on  
Open edX Slack



**Spencer Tiberi**

**Senior Product Manager, 2U**

# LTI PII Sharing

## IMPACT

- Standardize obtaining learner acknowledgement of PII sharing with LTI integrations
- Learners will acknowledge PII sharing once per course rather than upon each launch from an XBlock

## WORK COMPLETED

- Solution has been designed with privacy standards in mind

## WHAT'S NEXT

- Begin engineering work

*The forward-looking product roadmap does not represent a commitment, guarantee, obligation, or promise to deliver any product or feature or to deliver any product and feature by any particular date.*

Project Status:

Ready for  
Development

To find out more:

Reach out to  
**stiberi** on Open  
edX Slack

# LTI for Special Exams

## IMPACT

- Easy switching between proctoring providers
  - Plug and play special exams solutions

## WORK COMPLETED

- Publishing exams via LTI
- Timed exam functionality

## WHAT'S NEXT

- Proctored exam start and submission functionality
- Beta testing with edX partners

Project Status:

Development

To find out more:

Reach out to  
**stiberi** on Open  
edX Slack

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# Insights Replumbing

## IMPACT

- Rebuild data pipeline jobs to decrease cost and complexity of running and maintenance

## WORK COMPLETED

- Updated all jobs
- Removed PII from the platform

## WHAT'S NEXT

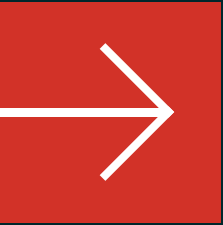
- Continued maintenance and support by 2U
- Collaboration on OARS

Project Status:

**Delivered**

To find out more:

Reach out to  
**stiberi** on Open  
edX Slack



**Aamir Ayub**

**Product Manager, 2U**

# Feature: Notifications Framework

## IMPACT

A framework that can be used to manage and deliver web, email and push notifications about events/updates in various platform areas like forum, course authoring, grading, subscriptions etc.

## WORK COMPLETED

UI/UX of notification preferences and identification of forum notifications to be part of the initial release

## WHAT'S NEXT

- UI/UX of notifications tray for web notifications
- Development, testing and rollout of web notifications for forum
- Build vs buy analysis of email and push notifications

*The forward-looking product roadmap does not represent a commitment, guarantee, obligation, or promise to deliver any product or feature or to deliver any product and feature by any particular date.*



Project Status:

**In Design**

Connect on slack:

**#notifications-2023**





# Feature: Notifications Framework

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*The forward-looking product roadmap does not represent a commitment, guarantee, obligation, or promise to deliver any product or feature or to deliver any product and feature by any particular date.*

Project Status:

**In Design**

Connect on slack:

`#notifications-2023`

# Feature: Discussion Sidebar

## IMPACT

Learners can participate in discussion forums alongside course content through a collapsible sidebar. Course teams can enable sidebar for each course unit via a toggle in Studio.

## WORK COMPLETED

Development is almost complete and beta-test is in progress.

## WHAT'S NEXT

Rollout and UI updates to make the sidebar more noticeable.

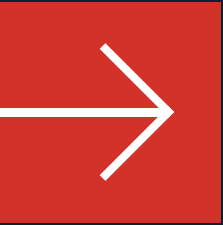
*The forward-looking product roadmap does not represent a commitment, guarantee, obligation, or promise to deliver any product or feature or to deliver any product and feature by any particular date.*

Project Status:

Development

To find out more:

[bit.ly/oesidebar](https://bit.ly/oesidebar)



**Ryan O'Connell**

**Senior Director of Product,  
2U**



# Thank you!

Questions?

Find us during the coffee break & Birds of a Feather  
(in this room!)

View the slides! [tinyurl.com/OEProduct-23](https://tinyurl.com/OEProduct-23)

# APPENDIX

**Additional exciting stuff we're working on that didn't fit in the presentation**

# Feature: React-based Video Player

## IMPACT

- Modernize our video player to match our technical stack, remove outdated code, enhance accessibility, and enable upcoming features like video uploads

## WORK COMPLETED

- Technical discovery & community specification review

## WHAT'S NEXT

- Opened up an RFP for community proposals to implement the spec, planning to choose a provider in early April

Project Status:

**In Design**

To find out more:

[Approach Memo](#)