



Growing an Edtech Startup

Our Mission

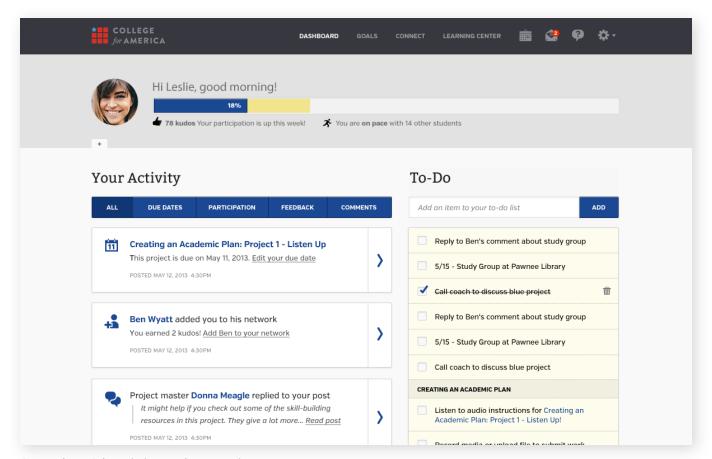
Motivis Learning was born from a pilot program at <u>Southern New Hampshire University</u>. Our mission was to improve and scale the competency-based learning platform they built in-house, for commercial use in higher education and corporate training. In 18 months we had to deliver minimal viable products for educators, students and coaches.

My Role

As head of product design, I was responsible for hiring a UX/UI team, implementing a user-centered design process and delivering production ready front-end. While I was involved in the design process, the UI design in this case study was produced by designers on my team.

Getting Started

The existing product consisted of custom Salesforce pages cobbled together with native and custom components. Administrators and educators struggled to navigate the Salesforce back-end, enter course content, and track student progress. Coaches were also frustrated by the lack of student data and communication tools. While the product did expose an opportunity in the market, the front-end and back-end needed a complete overhaul to meet the needs of our pilot program users.



Screenshot of the existing student experience.

Product Roadmapping

Our goal was to redesign curriculum and course management features while hiring resources to increase velocity. Our long-term strategy was to run 3 cross-functional scrum teams, one for each persona – educators, students, and coaches.

Building a UX Practice

As employee 12, and the first designer, I started designing features while interviewing candidates. Dozens of candidates applied to job requisitions I posted on LinkedIn, although the best candidates came from my network at the University of Massachusetts Lowell and colleagues from previous employment.

EDUCATOR SCRUM TEAM

STUDENT SCRUM TEAM



<u>Dudley Bryan</u> Lead UX Designer



Corey Szepan
UX Designer



Sarah Croughwell
UX Researcher, Coaching



Gregory Saras
UI Developer



Kyle Soeltz Senior UI Developer

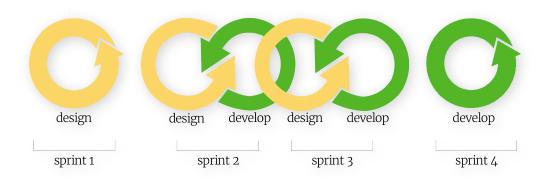


Amanda Murrin
UI Designer, Design System

Mixing Agile & Lean UX Methodology

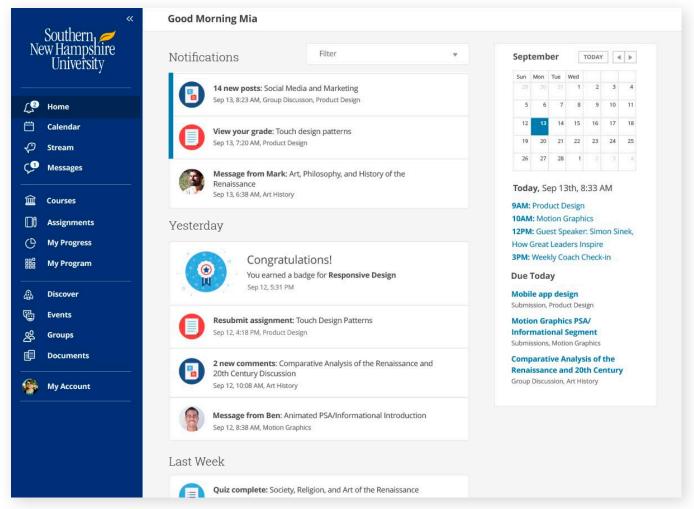
Balancing the need to deliver product every 2 weeks with a user centered design process was challenging at first. As my team grew, I allocated more of my time to process improvements and planning.

Eventually the UI and UX lead from each scrum team worked a sprint ahead of the engineer. They supported the implementation of their design work from the previous sprint, while designing and testing prototypes in the current sprint. This staggered sprint approach worked well, eventually scaling to all 3 scrum teams.

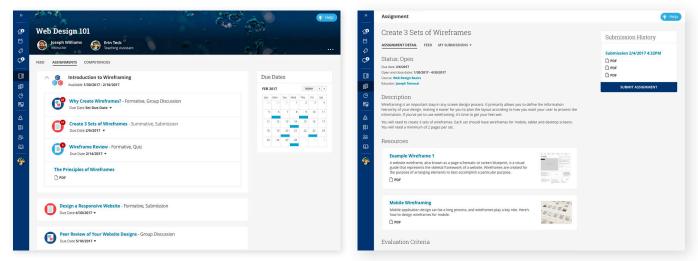


A visual representation of our process by Lauren Mulvehill.

Student MVP



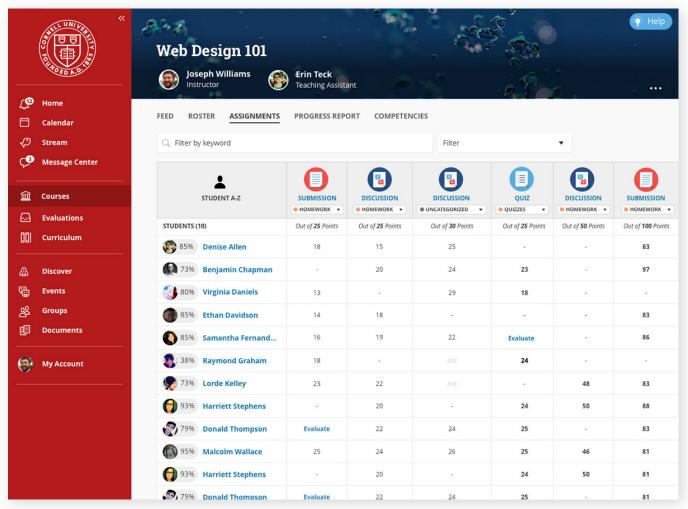
Redesigned student dashboard



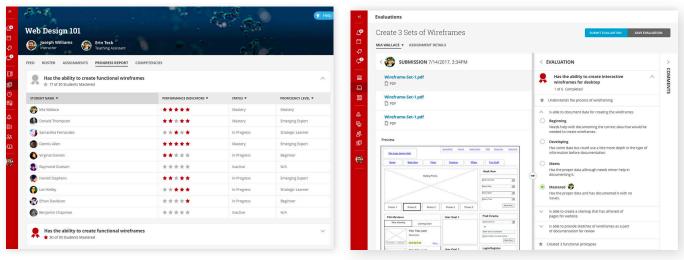
Course assignments

Assignment detail

Educator MVP



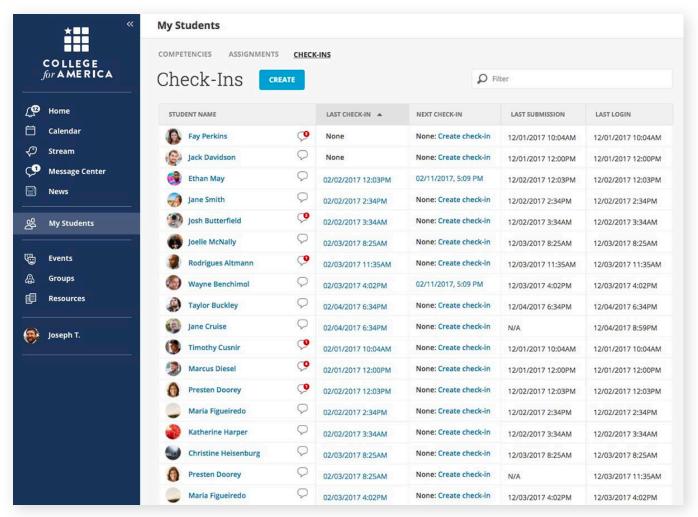
Grade book



Competency progress report

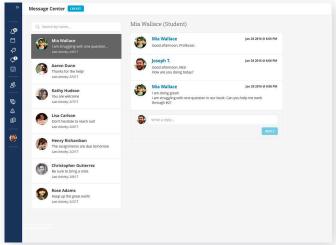
Assignment grading

Coach MVP



Managing communication with students





Student profiles

Private messaging

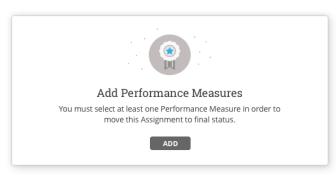
Increasing Product Adoption

With core functionality in beta, our focus turned to UX debt that accumulated during the first several months of product development. Findings from usability studies along with a heuristic analysis informed a long list of prioritized improvements that would increase product adoption and customer satisfaction.

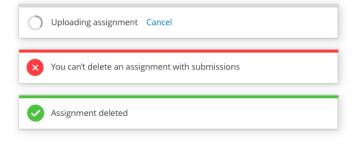
Contextual Help

The lack of confirmation and acknowledgment between the product and user caused many usability issues. We identified over 60 instances lacking alerts, dialogs, snackbars, and empty states. This design effort became the start of our design system documentation.

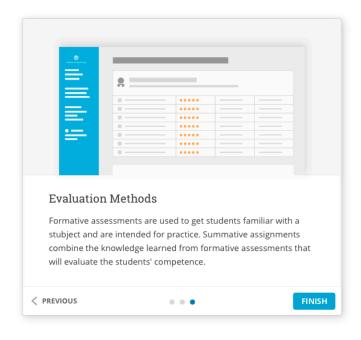
EMPTY STATES



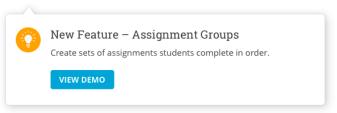
SNACKBARS



FEATURE TOURS

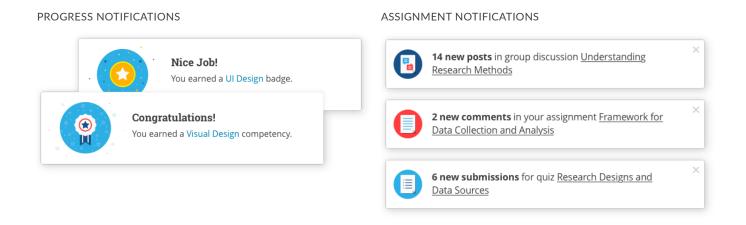


TOAST MESSAGES



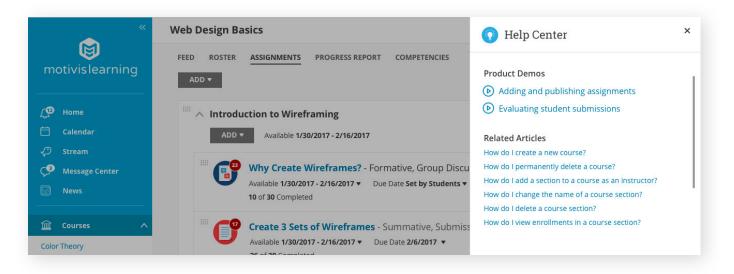
Notification System

It was difficult for students and instructors to track assignments and activity across multiple courses. They needed a centralized view of assignments, course activity and achievements. We designed a new homepage with a notification system that empowered students and instructors to actively manage their course work and stay up to date.



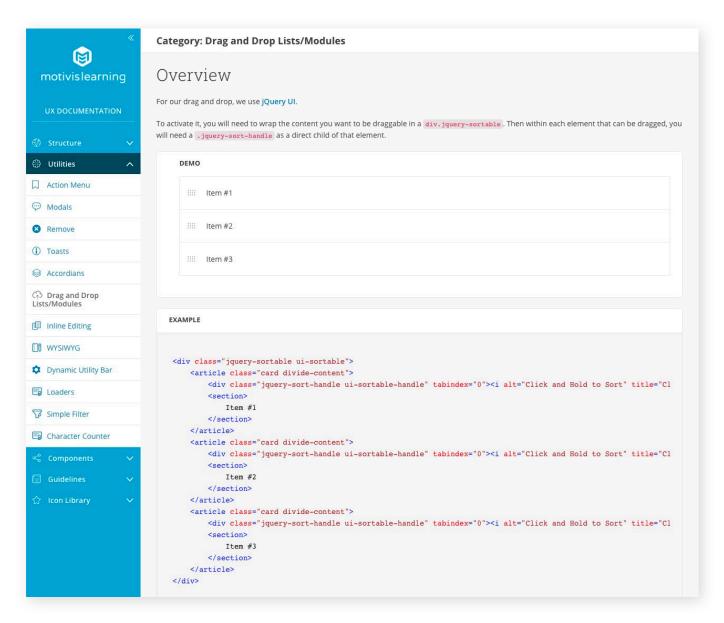
Customer Support Integration

We merged product documentation and the knowledge base into a unified customer support experience that integrated in the product. A well defined taxonomy system mapped product pages to articles and how-to articles when and where a customer needed access to it.



Design System Documentation

The fast lane to beta often felt like we were building the car while driving it. Now with a larger team and beta out the door, we had time and resources to document UI patterns and controls by creating a proper design system.



Career Planning

Some of the designers I hired were just starting their career. They needed help identifying learning opportunities and guidance applying what they learned. This was a fantastic opportunity to eat our own dog food by putting our product to use internally.



UXD Competencies

Starting from a set of competency statements by <u>David Travis</u>, I refined his work and developed performance indicators for each sub-competency. In doing so, a scale emerged with performance descriptors for each level.

It was finicky work, continuously assessing competency statements while considering how to measure performance for each level. Based on feedback from my team and other department leads, additional performance indicators were added and criteria for each level were clarified.

Measuring Performance

The process started with a self-evaluation. Levels for each performance indicator were selected using the scale menu in Google Sheets.

A beginner is familiar with the criteria statement, but has no working experience, until they grow to advanced beginner. Once they complete work independently they achieve competence. Emerging experts oversee and mentor junior work, becoming expert by demonstrating thought leadership and process innovation.

Evaluations for each criteria statement are ranked 1 though 5, then averages are summed to the competency statement. Averages from all the performance indicators displays on the competency wheel making generalists, specialists and career paths easily identifiable.





Generalist competency map

Specialist competency map

Work in Progress

While this was a huge success, work continues clarifying the relationship between sub-competencies and performance indicators, and defining a hiring process with self-evaluations.

View UX competency self assessment.