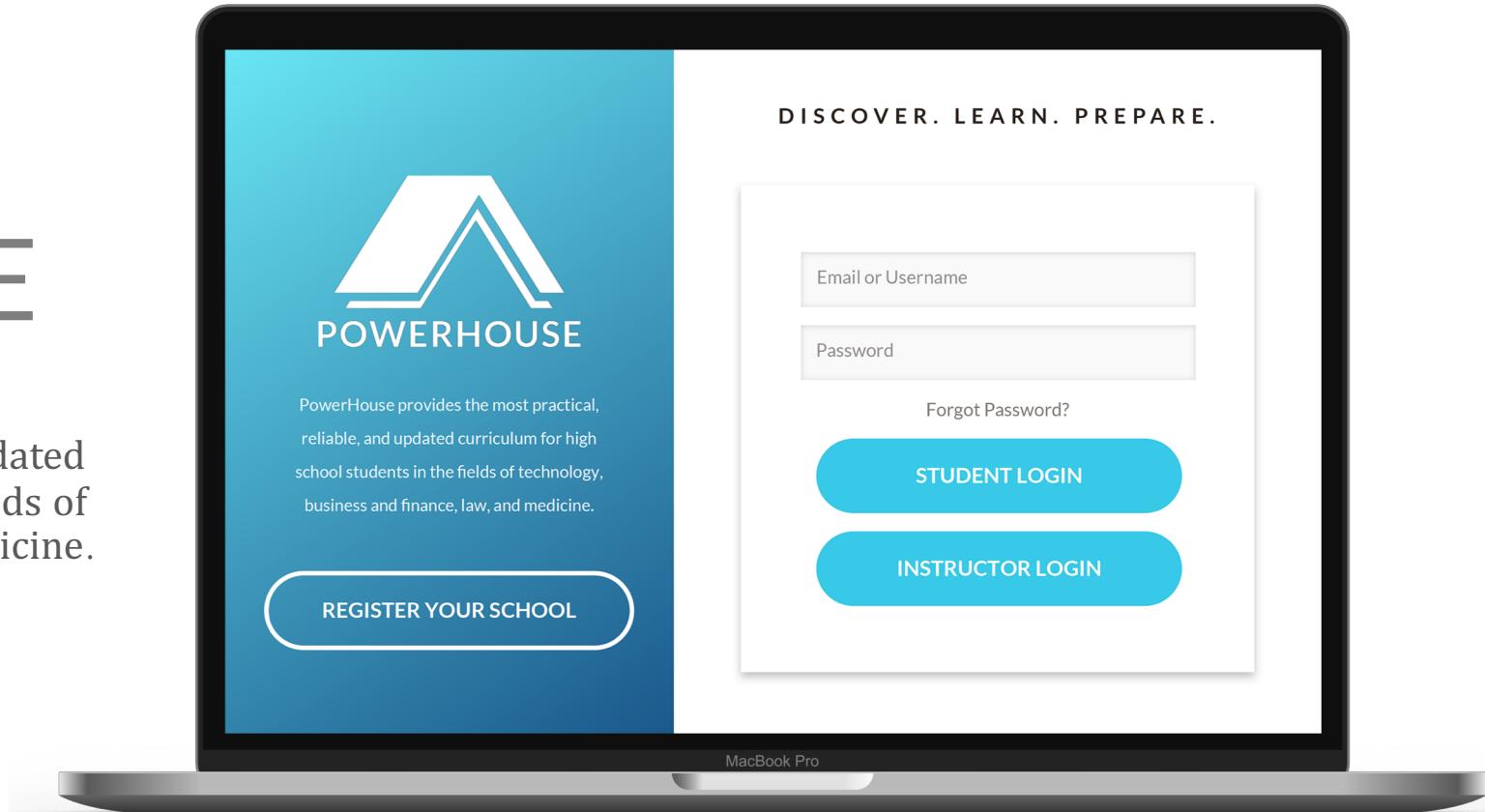


POWERHOUSE

Providing the most practical, reliable, and updated curriculum for high school students in the fields of technology, business and finance, law, and medicine.



IDENTIFYING AUDIENCE

There are two target audiences: ***students*** and ***instructors***. Their behaviors and desires are vastly different, and the design should cater to each of their specific needs.

STUDENT PERSONA



BIO

Rowan is a sophomore student at the private high school, West High Academy. She loves all things art, including photography, drawing, animation, as well as theatre. She also has a knack for math and science. Rowan's older sister is a computer science major, and her brother works in a bank. Rowan, however, doesn't know whether she will follow her siblings' steps. She has never taken a computer science course, and her school does not offer any business or finance courses at the moment.

ROWAN LOCKHART

Age: 15

School: West High Academy

Year: Sophomore

Residence: Upstate New York

Character: Artsy Explorer

BEHAVIORS

Rowan tries to be organized as she keeps a planner with all her important events from school, extracurriculars, and personal life. Rowan falls on either end of the spectrum: extremely motivated or completely unmotivated. Rowan finds that what keeps her motivated is interest.

TEACHER PERSONA



BIO

Josh is a math and economics teacher at West High Academy. He has been teaching for 28 years, and he has been at West High for almost 20 years. Besides teaching, Josh also works with other teachers to try to improve the curriculum at West High. He is one of the leading voices in bringing pre-professional and career development into the school. Outside of work, Josh likes to sail, hike, ski, and just about any outdoor activities. He is the father of three: two are in high school and one is in middle school.

JOSH SMITH

Age: 55

Profession: High School Teacher

Family: Wife and 3 children

Residence: Upstate New York

Character: Meticulous Analytic

BEHAVIORS

Josh is an early riser who likes his coffee black. He tries to plan his curriculum in advance. However, Josh has learned that make-ahead schedules always change, so he is ready to be flexible. Josh has always been a traditionalist when it comes to technology, so he is skeptical of online learning.

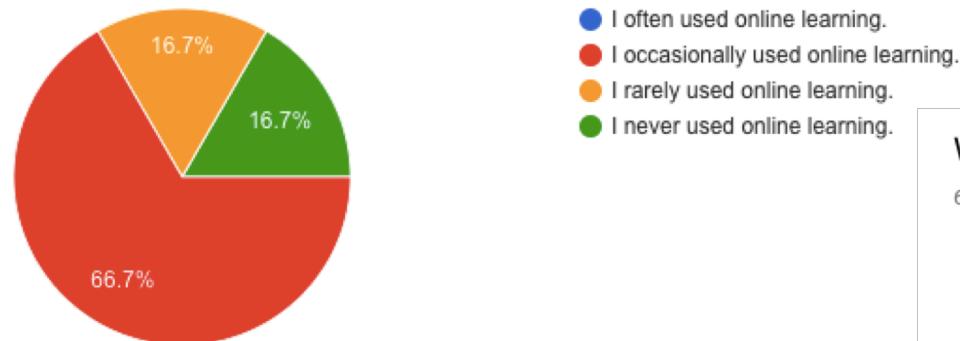
USER RESEARCH

I conducted a ***survey*** on six students and an ***interview*** on one teacher to help obtain further understanding of the target audiences.

Some example questions and answers from the student survey.

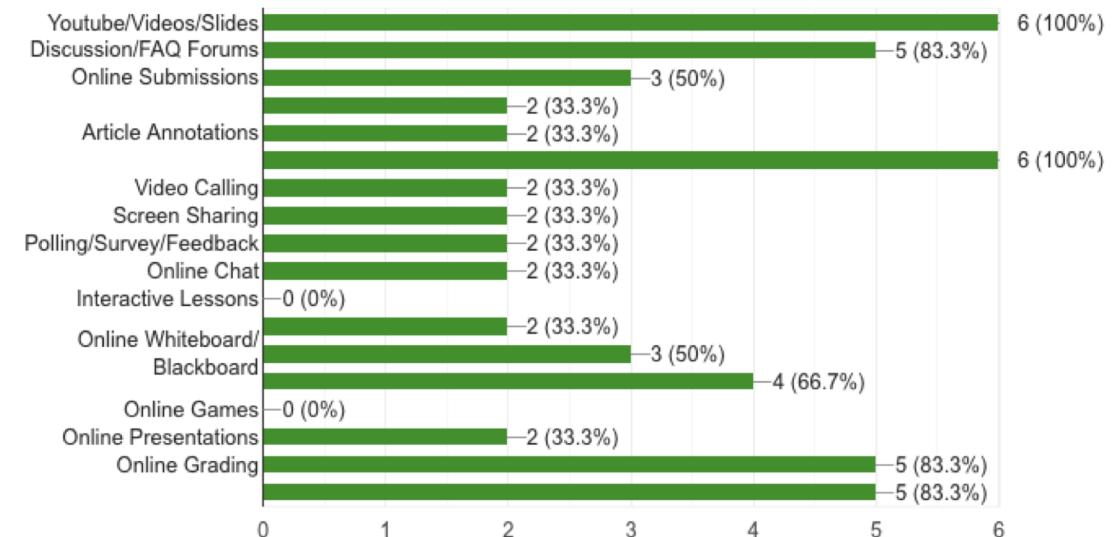
How would you describe your exposure to online learning using online platforms such as Khan Academy, edX, Coursera, etc., at any point in your school career, whether it be during class or outside class (eg. as homework or learning supplement)?

6 responses



What online learning tools have used during your school career?

6 responses



USER RESEARCH SUMMARY

STUDENTS	INSTRUCTORS
<ul style="list-style-type: none">• Use these the most: videos/slides, file sharing, online-posted syllabus, online grading, and discussion forums.	<ul style="list-style-type: none">• Usually confused by the complications of technology to take full advantage of online platforms.
<ul style="list-style-type: none">• Largest obstacle of learning online is the <i>lack of motivation</i> to self-start	<ul style="list-style-type: none">• Difficult to implement personalized activities.

For students, I will focus on keeping the syllabus, discussion forums, and videos/slides to create a basic ***functional learning platform*** and help ***Maintain motivation***.

For teachers, I will focus on ***keep controls simple***, mainly ***assigning the curriculum***.

MARKET RESEARCH

I examined three MOOC sites for inspiration: *Khan Academy*, *Coursera*, and *DataCamp*. I also took some inspirations from *Duolingo*, a free language learning site.

KHAN ACADEMY

Courses Search 

Khan Academy

Donate Login Sign up

< Personal finance
Interest and debt

Lessons

- Compound interest basics
- Interest basics
- Credit basics
- Credit cards and loans
- Debt repayment
- Personal bankruptcy

Compound interest basics

Learn

- Compound interest introduction
- The rule of 72 for compound interest

Interest basics

Learn

- Introduction to interest
- Interest (part 2)
- Why interest rates go up and down - by Better Money Habits®
- How rising or falling interest rates might affect you - by Better Money Habits®

Courses Search 

Khan Academy

Donate Login Sign up

College, careers, and more > Personal finance > Interest and debt > Compound interest basics

 Compound interest introduction
 The rule of 72 for compound interest

Next tutorial Interest basics

is talk a little bit about compounding interest

0.02 / 6:37

Was this video helpful?



Compound interest introduction

About Transcript

Learn about the basics of compound interest, with examples of basic compound interest

College, careers, and more > Personal finance > Interest and debt > Compound interest basics

 Compound interest introduction
 The rule of 72 for compound interest

Next tutorial Interest basics

Sort by: Top Voted

Questions Tips & Thanks

Question Ask a question...

Lauric Sergiu 5 years ago

So you are telling me that in the USA they pay you to keep your money in the bank ? why isn't everyone depositing huge amounts into banks then ?

Reply 18 comments (58 votes) Upvote Downvote Flag

Andrew M 5 years ago

This is not just true in the US, it is true of banks just about everywhere. People do deposit huge amounts into banks. That's where banks get the money to lend. Right now the interest rates banks are paying are not very high, so money that might go into bank accounts if the rates were higher is being invested elsewhere.

Comment (9 votes) Upvote Downvote Flag

See 1 more reply

COURSERA

The screenshot shows the course landing page for 'Organizational Analysis' on the Coursera platform. At the top, there's a navigation bar with the Coursera logo, a search bar, and links for 'Explore', 'Log In', and 'Sign Up'. Below the navigation, the course title 'Organizational Analysis' is displayed, along with the provider 'Offered By Stanford'. A prominent 'Enroll Starts Dec 31' button is visible. The course description indicates 'Financial aid available'. At the bottom of the main section, there are links for 'About', 'Syllabus', 'Reviews', 'Instructors', 'Enrollment Options', and 'FAQ'. On the left side, under the heading 'About this Course', it shows a rating of 4.7 stars from 439 reviews. Below the rating, a description states: 'In this introductory, self-paced course, you will learn multiple theories of organizational behavior and apply them to actual cases of organizational change.' To the right of this text is a circular icon with a globe and the text '100% online Start instantly and learn at your own schedule.'

The screenshot shows the course syllabus for 'Organizational Analysis' on the Stanford University website. The top navigation bar includes links for 'About', 'Syllabus', 'Reviews', 'Instructors', 'Enrollment Options', and 'FAQ', along with an 'Enroll Starts Dec 31' button. The syllabus section is titled 'Syllabus - What you will learn from this course'. It is structured into two weeks: Week 1, which includes 'Module 1 - Introduction' (3 hours to complete) and Week 2, which includes 'Module 2 - Decisions by Rational and Rule-based Procedures' (2 hours to complete). Each module has a link to 'SEE ALL' content.

The screenshot shows a lecture video player for 'Lecture 1 - Introduction to Organizations - Part 1'. The video title is 'What is an Organization?'. The video frame displays a list of examples of organizations: Hospitals, Schools, Businesses, Stores, Companies, Factories, Families, Professional associations, Social movements, Fraternities and cliques, Peer groups, collectivities, and isolated individuals. A play button is overlaid on the video frame. At the bottom of the player, there's a red bar with the Stanford University logo and the course title 'Organizational Analysis'. It also shows a rating of 4.7 stars from 439 reviews. A blue button labeled 'Try the Course for Free' is located at the bottom right.

DATA CAMP

The screenshot shows the DataCamp website with the following details:

- Header:** DataCamp logo, search bar "What would you like to learn today?", navigation menu with Learn, Pricing, For Business, and user stats (7,875 XP).
- Course Information:** "INTERACTIVE COURSE" and "Introduction to Python".
- Start Course For Free:** Yellow button.
- Thumbnail:** A green shield-shaped icon with the text "INTRODUCTION TO PYTHON" and a book icon.
- Metrics:** 4 hours, 11 Videos, 57 Exercises, 1,182,317 Participants, 4,700 XP, Download the app (for iOS and Android).
- Course Description:** Python is a general-purpose programming language that is becoming more and more popular for doing data science. Companies worldwide are using Python to harvest insights from their data and get a competitive edge. Unlike any other Python tutorial, this course focuses on Python specifically for data science. In our Intro to Python class, you will learn about powerful ways to store and manipulate data as well as cool data science tools to start your own analyses. Enter DataCamp's online Python curriculum.
- Related Tracks:** Data Analyst with Python, Data Scientist with Python, Python Programmer, Python Programming.

The screenshot shows the course outline for "Introduction to Python" with three chapters:

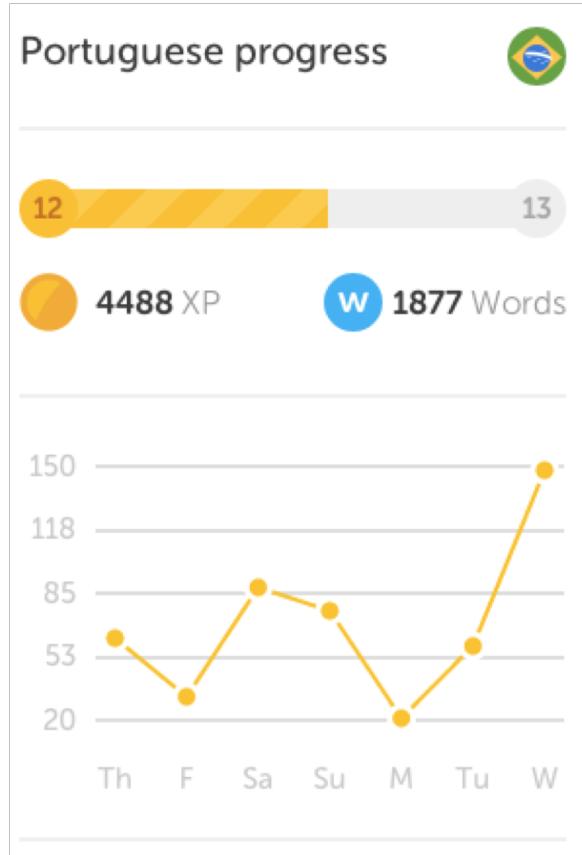
- 1 Python Basics**: An introduction to the basic concepts of Python. Learn how to use Python both interactively and through a script. Create your first variables and acquaint yourself with Python's basic data types.
VIEW CHAPTER DETAILS | Continue Chapter
- 2 Python Lists**: Learn to store, access and manipulate data in lists: the first step towards efficiently working with huge amounts of data.
VIEW CHAPTER DETAILS | Continue Chapter
- 3 Functions and Packages**: To leverage the code that brilliant Python developers have written, you'll learn about using functions, methods and packages. This will help you to reduce the amount of code you need to solve challenging problems!
VIEW CHAPTER DETAILS | Continue Chapter

Python Programming tab is selected at the top right. On the right side, there is a sidebar for "Filip Schouwenaars" with his profile picture, title (Data Science Instructor at DataCamp), bio, and a "See More" button.

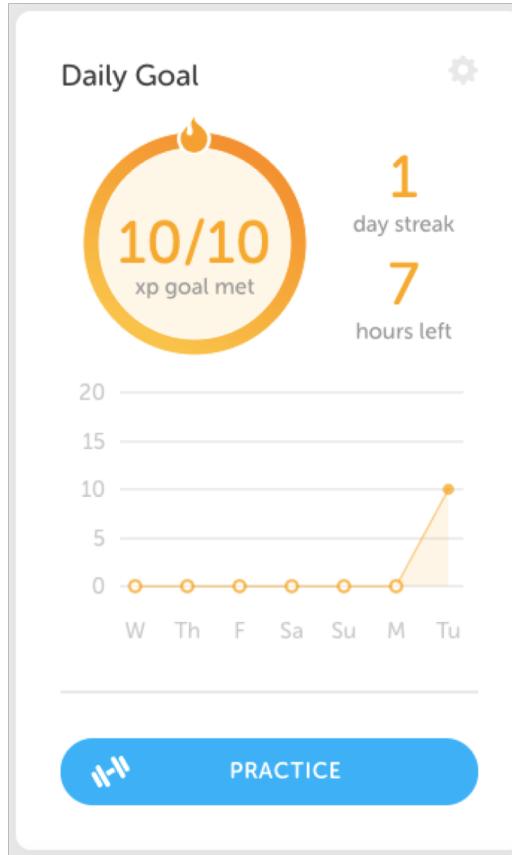
The screenshot shows a video player interface with the following details:

- Header:** DataCamp logo, Course Outline, 50 XP.
- Lesson Title:** Hello Python!
- Video Content:** A video player showing a man in a black polo shirt with the DataCamp logo speaking. The video is titled "Intro to Python for Data Science".
- Caption:** What you will learn
- Speaker:** Filip Schouwenaars, Instructor, DataCamp
- Buttons:** Got it! button at the bottom right.

PROGRESS REPORTS



Duolingo Weekly Progress



1 Python Basics

A screenshot of a DataCamp Python Basics course. It shows 8% completion, 50 XP available, and a preview titled "Hello Python!"

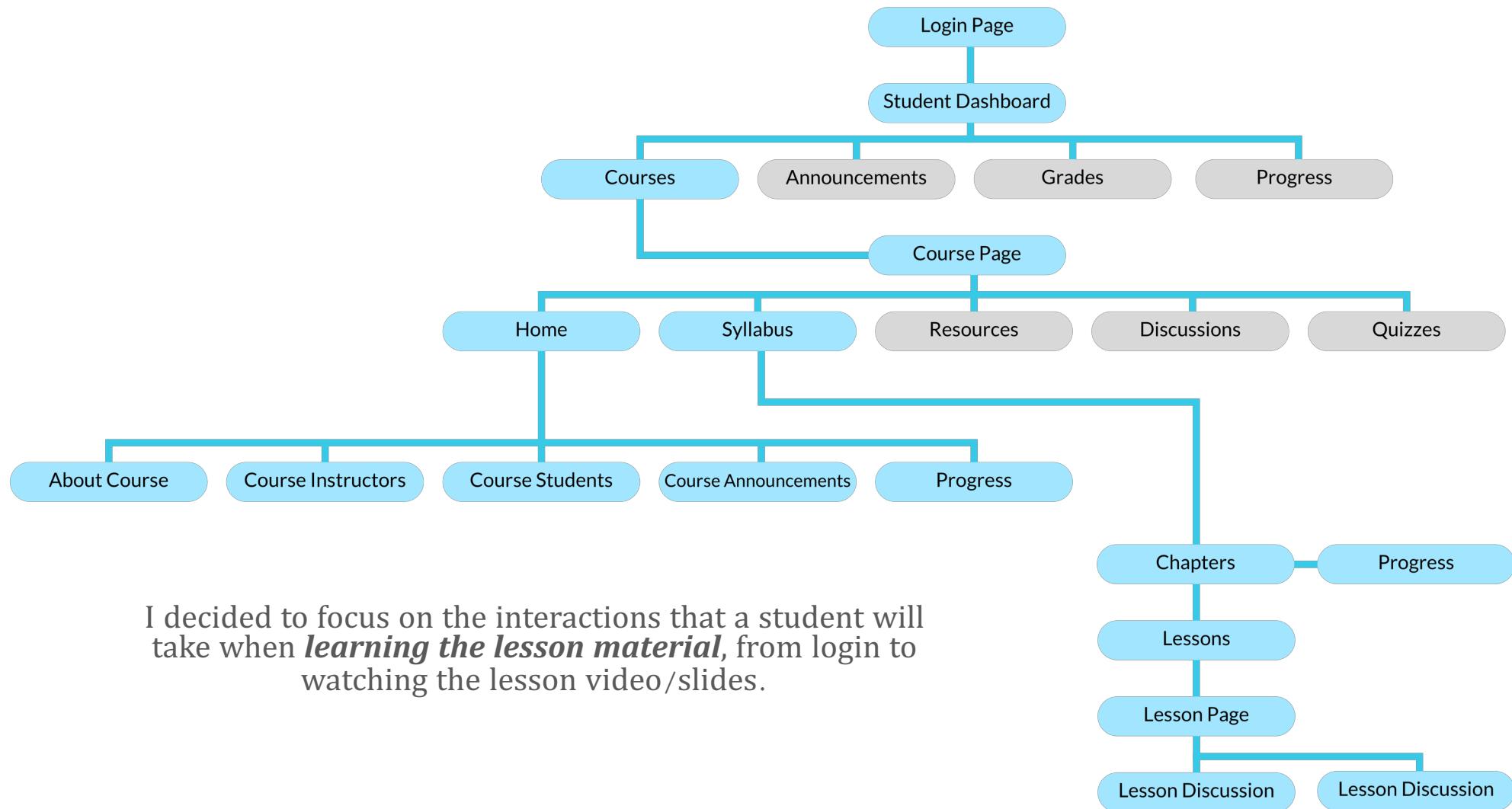
DataCamp Course Progress

Many educational sites display the user's course/lesson progress as a way to incentivize learning.

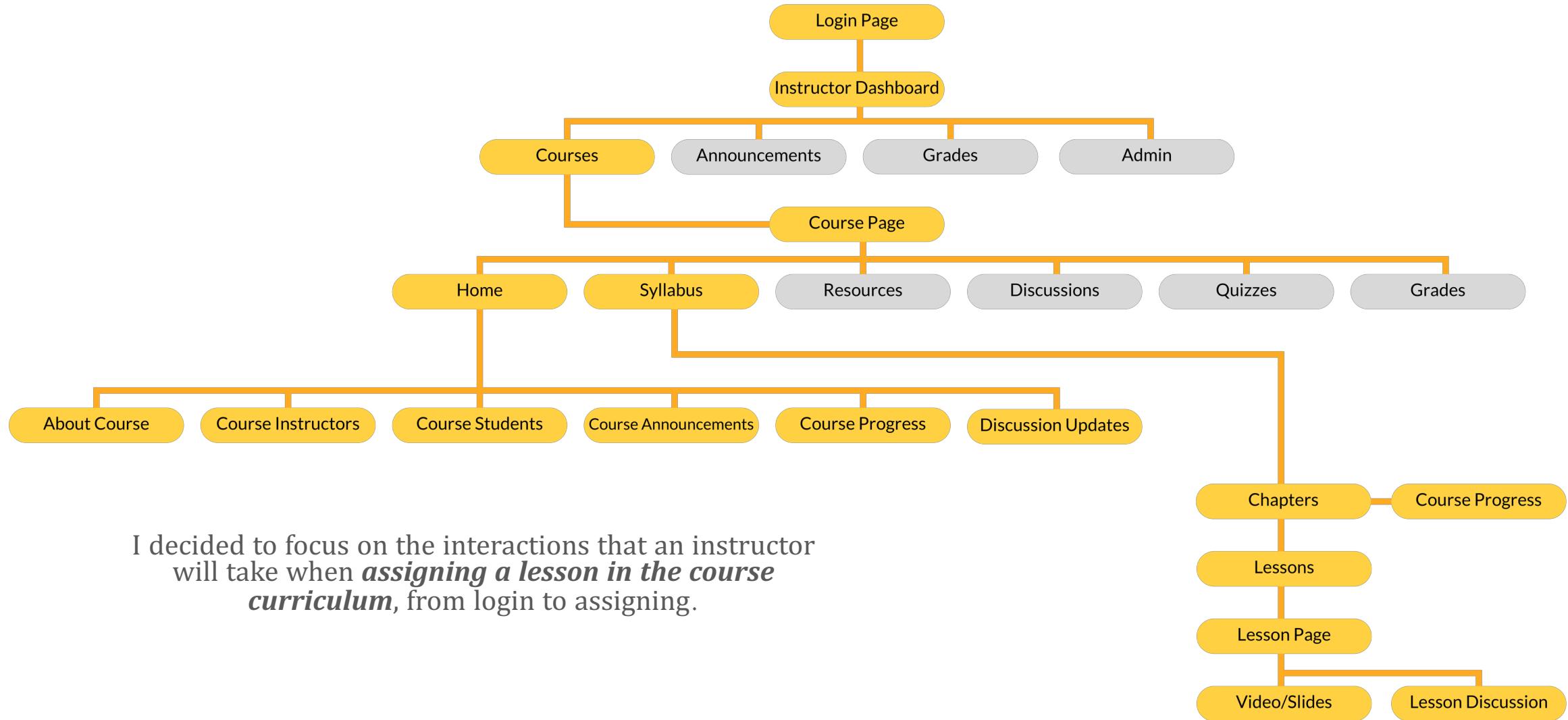
CONTENT & ORGANIZATION

I brainstormed the basic content that would be needed to create a functional online platform. I organized the content into hierachal diagrams.

HIERARCHY DIAGRAM: STUDENT



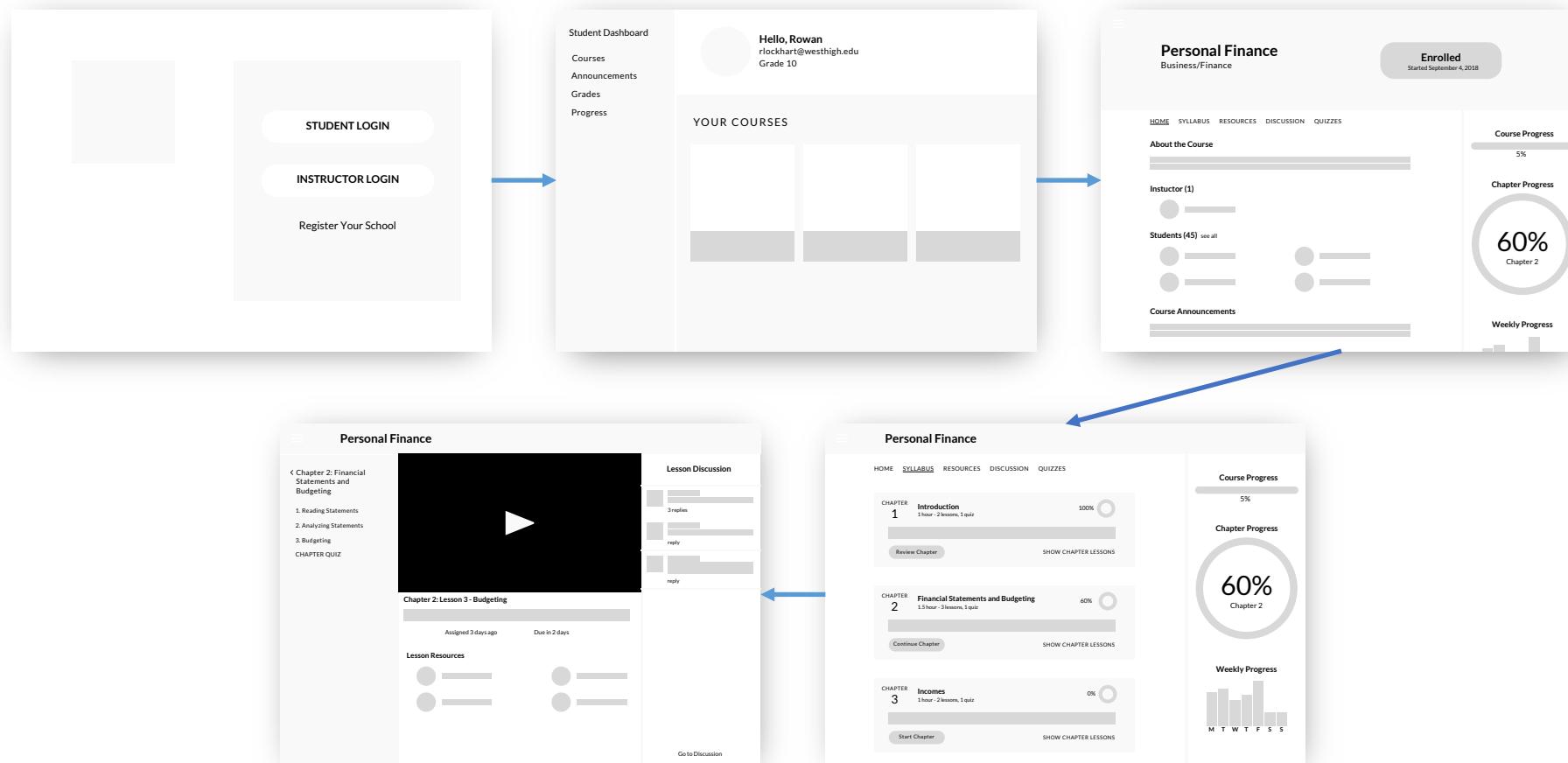
HIERARCHY DIAGRAM: INSTRUCTOR



IDEATING

I started with sketches and wireframes. I considered the colors and styles that would go well with the brand, as well as other aspects to create a high-fidelity mockup.

WIFEFRAMES



UI & BRANDING



UI KIT



LOGO (BLACK)

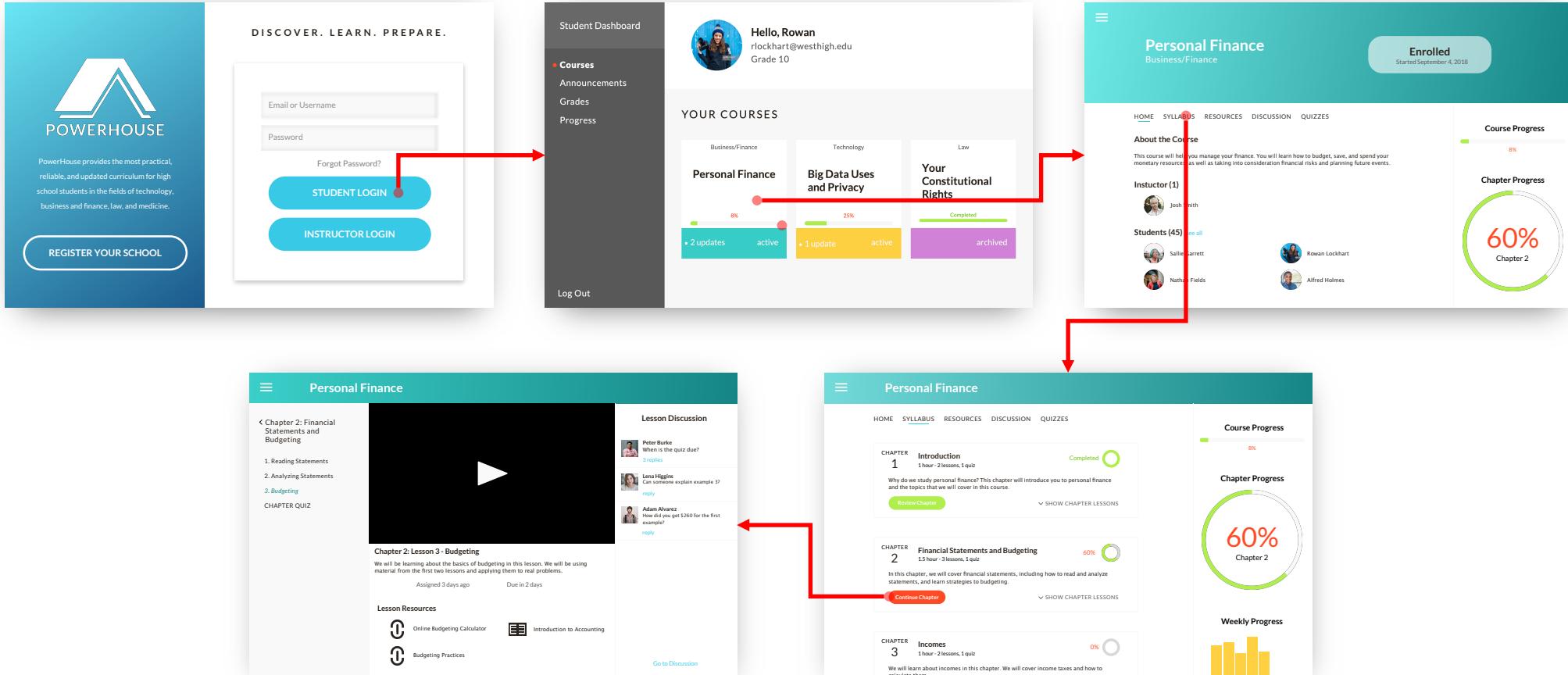


LOGO (WHITE)

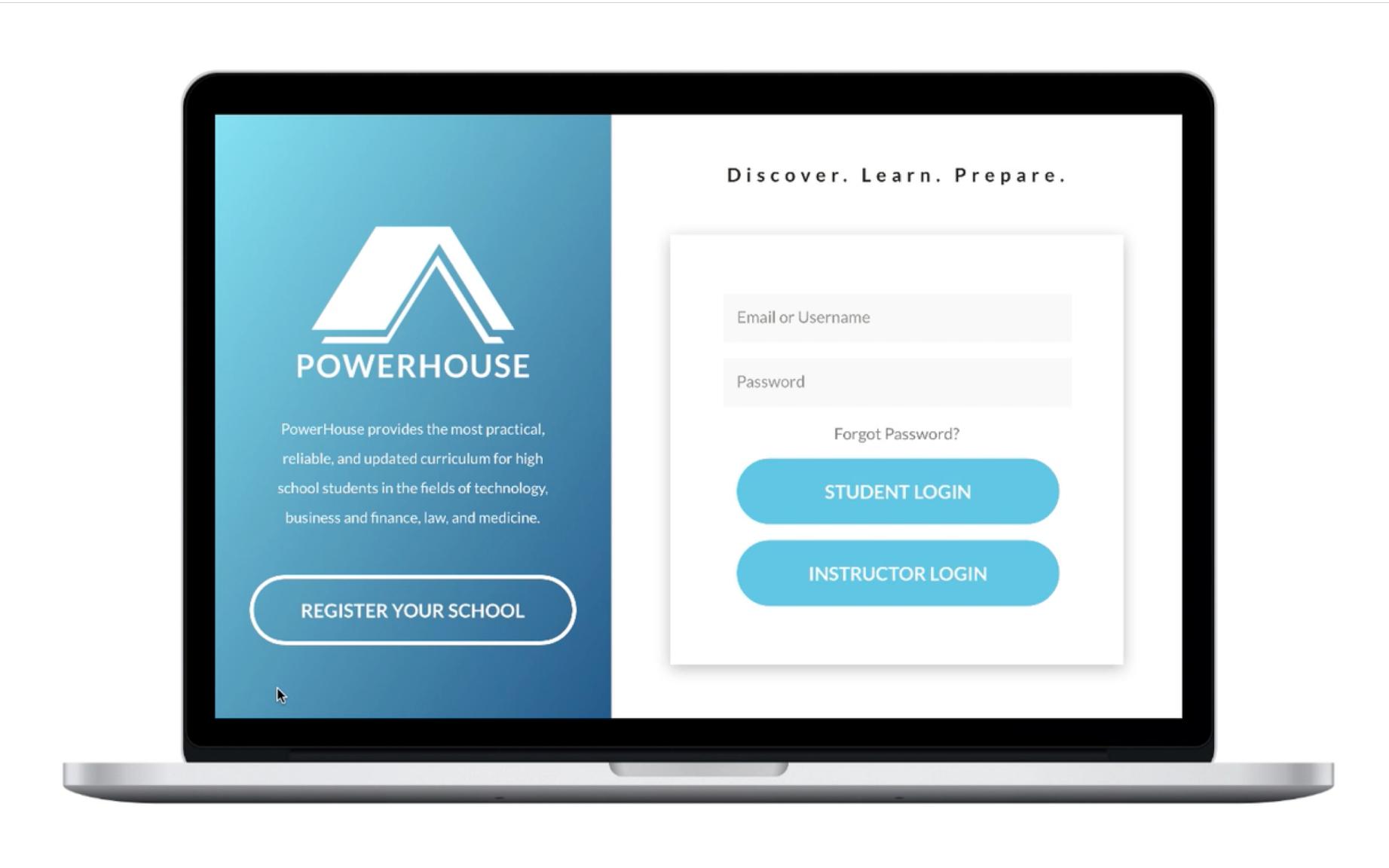
PROTOTYPES

I created the prototypes using Origami.

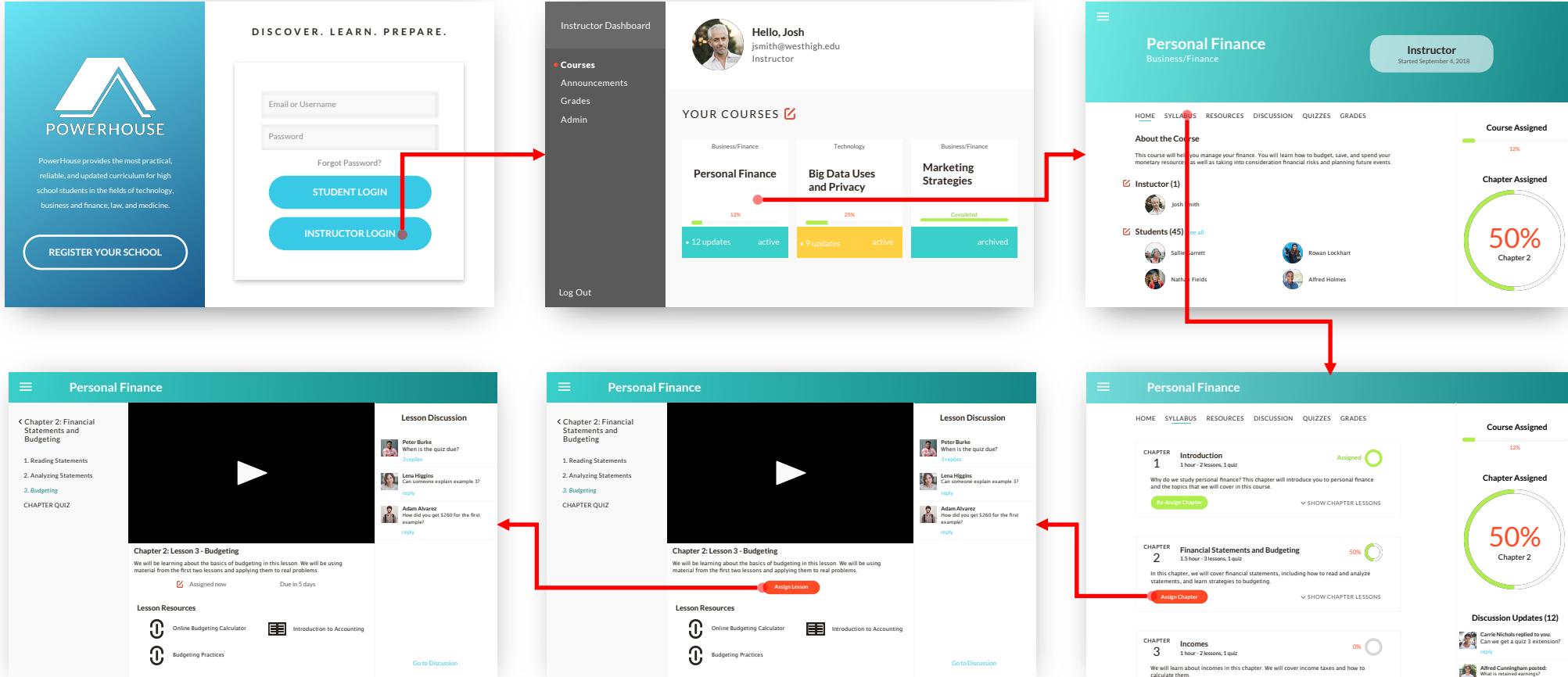
STUDENT VIEW USER FLOW



STUDENT VIEW PROTOTYPE



INSTRUCTOR VIEW USER FLOW



INSTRUCTOR VIEW PROTOTYPE

