

VLE Project

Vishal Mistry

Project overview



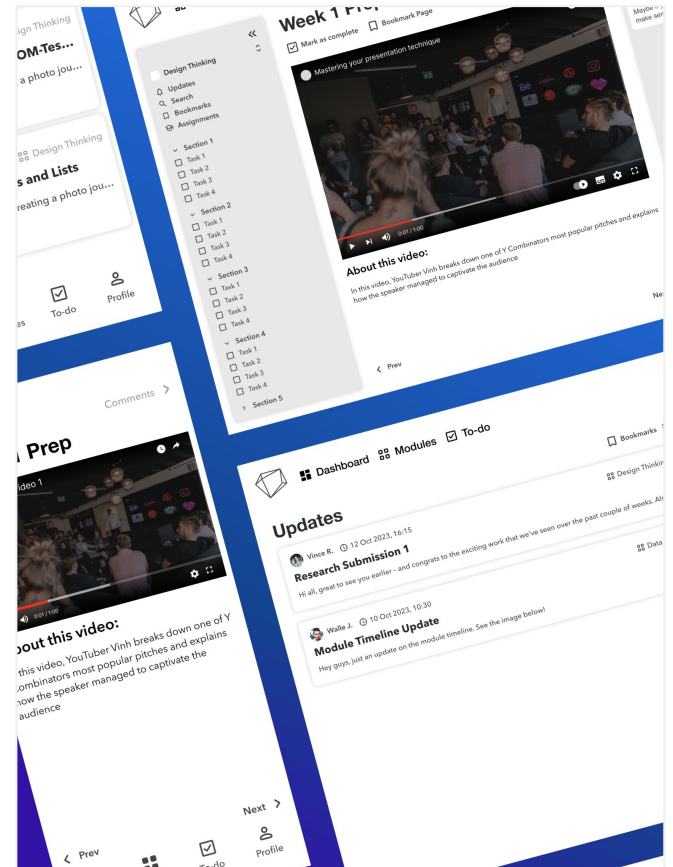
The product:

Learning environment specifically for students studying at a particular unnamed startup university.



Project duration:

September 2023 – October 2023



Project overview



The problem:

Students were struggling to use the new virtual learning environment and did not enjoy the process of learning from it.



The goal:

Craft a simplified, intuitive, and engaging environment for students to work within.

Project overview



My role:

Lead UX designer / Researcher



Responsibilities:

User research / Wireframing / Prototyping

Understanding the user

- User research
- Personas
- Problem statements
- User empathy maps

User research: summary



Before going into the research I assumed that students didn't enjoy using the new application because it had a poor design as the previous VLE provided an extremely simple and intuitive user experience.

Secondary research involving the analysis of product reviews of the previous VLE provider found that many users appreciated the simple UI as it made the experience incredibly easy for students to learn from.

My primary research found that many students didn't feel like the VLE provided a well-organised view of information. Moreover it didn't provide a clear sense of progress or outline of the work the students had to do.

User research: pain points

1

Sense of Progress

Students don't feel like they're progressing through their course.

2

Organisation

Students feel lost on the app. They struggle to find the information they need to.

3

Engagement

Students have to force themselves to use the app. The app doesn't make them want to use it.

Persona: Aaliyah

Problem statement:

Aaliyah is a student who needs an organised view of all her uni work because they want to feel a sense of accomplishment when completing their uni work.

AALIYAH

Age: 21
Occupation: Student

GOALS
Wants to know exactly what work she needs to do.

FRUSTRATIONS
Has to flick between pages to understand exactly how much work she has left and needs to do.

"it feels like I've done nothing"

Aaliyah is a student at a startup university that needs requires a lot of organisation before starting their work.



Persona: James

Problem statement:

James is a student who needs a pleasurable environment to work in because they want to be in an environment (digital) that makes him want to work.

JAMES

Age: 24
Occupation: Student

GOALS
Want to *actually* enjoy completing university work.

FRUSTRATIONS
The existing learning environment doesn't provide a pleasurable experience as he progresses.

"the current app doesn't make you want to work"

James is a student at a startup university. He aims to find ways to *really* enjoy the work he has to complete at university.



User Empathy Maps

Empathy maps show:

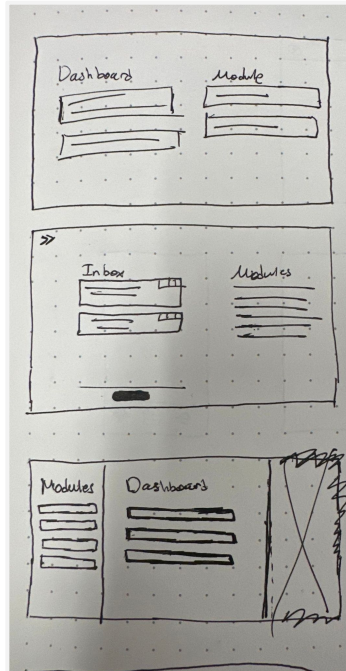
- Students don't like look of the app.
- Don't feel attracted to the UX.
- Struggle to find the information they need.
- Feel no sense of progression through the app.
- Devise other ways to create a sense of progress.



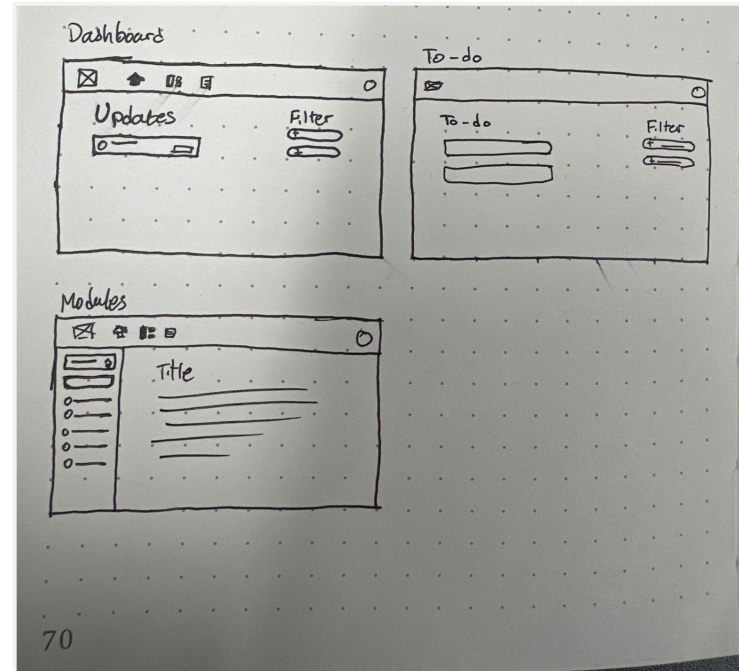
Paper wireframes

The aim of the wireframes from the get-go was to package a lot of the features into a small number of familiar-looking screens and functional components.

Sketch 1



Final Sketch

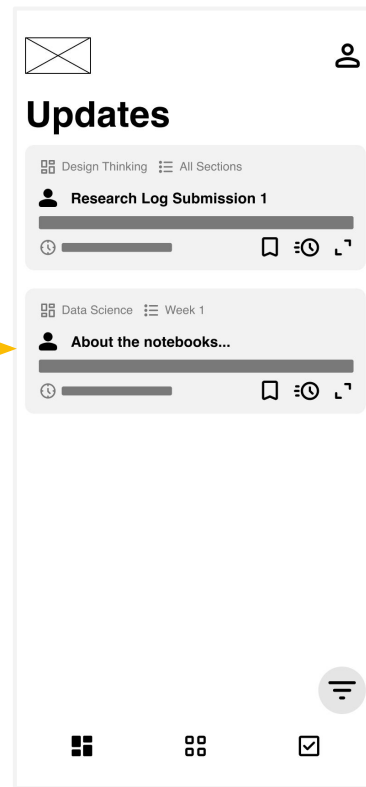


Digital wireframes

Mobile Dashboard View

The dashboard intended to remove the need for multiple announcement pages per module page. This centralised all announcements in the dashboard with filters to separate by module when needed.

Created simplified standardised views of each announcement in a clear concise manner.



Students can take action on each item straight from the dashboard view. These quick actions aim to reduce total number of taps to complete a task.

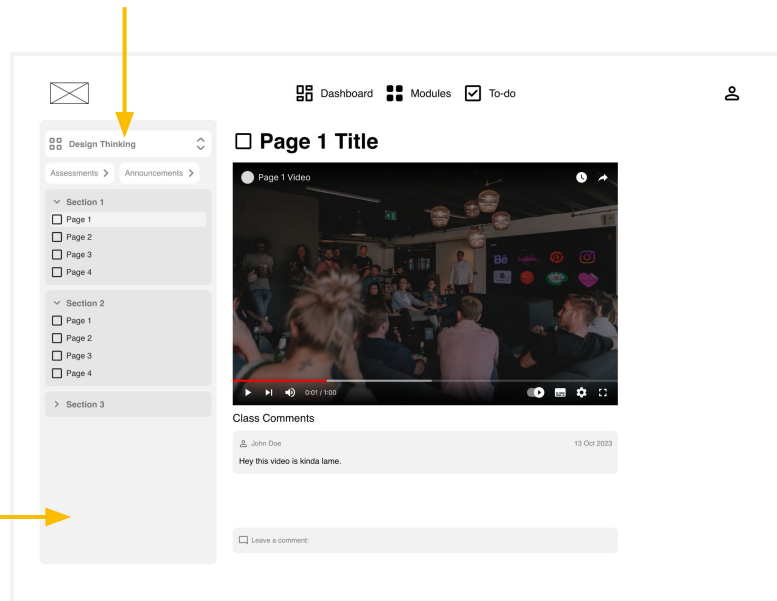
Used floating button to open up the filter menu. This was so it would be visually separate from the hamburger menu.

Digital wireframes

Desktop Module/Content View

Creating something familiar was important to create a positive UX. I borrowed ideas from Notion (a popular app used by target users) to create familiar components in the design.

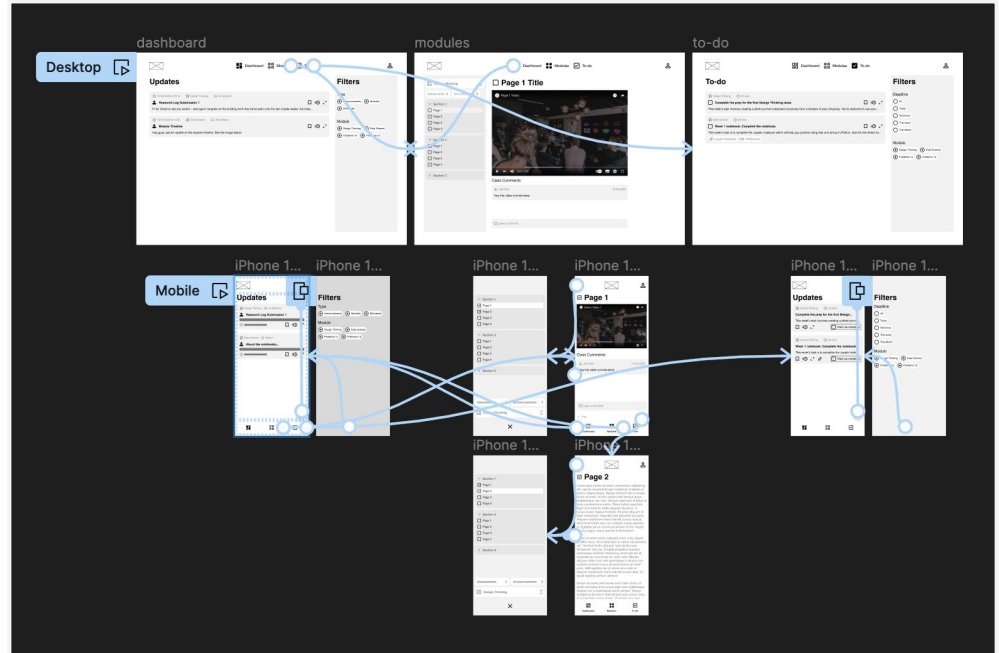
Module switcher that allows students to switch between module.



Students expressed multiple times how they missed the sidebar with checkboxes that were on the previous VLE app.

Low-fidelity prototype

[Link to Low-fidelity Prototype](#)



Usability study: findings

Round 1 findings

- 1 Needed prev/next buttons to progress easier.
- 2 Need icon labels as dashboard and module icons are unfamiliar to users.
- 3 Wireframe was relatively easy to navigate.

Round 2 findings

- 1 Mockup was much more intuitive to navigate.
- 2 Icon labels further assisted in helping students navigate the pages.
- 3 Prev/Next buttons helped students understand how they'd progress.

Refining the design

- Mockups
- High-fidelity prototype
- Accessibility

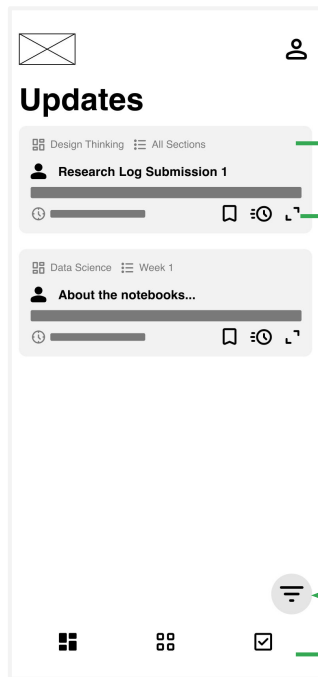
Mockups

Dashboard View

This screen needed reduced information and simplified controls.

Swipe features were inspired by Apple's app designs.

Before usability study



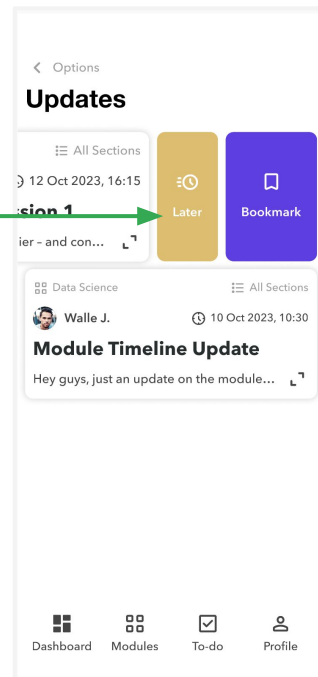
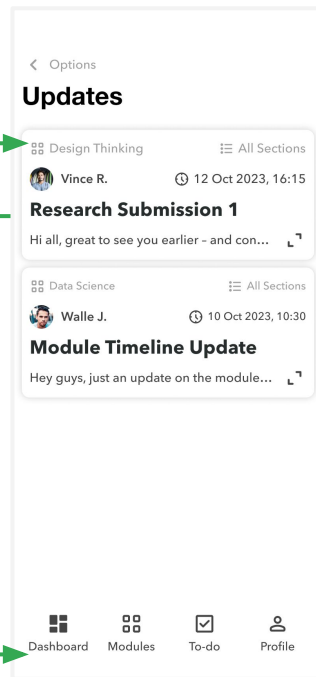
Reduced information

Removed extra icons in favour of labeled swipe controls

Removed floating button.

Added labels to bottom navigation

After usability study

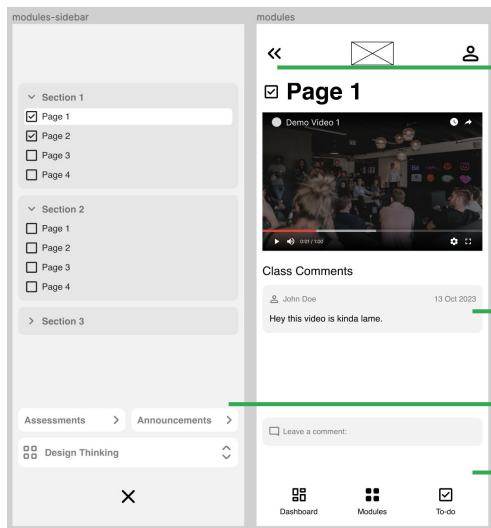


Mockups

Module View

This screen needed to be highly involved and engaging. Focusing user attention on the content always and removing unnecessary information.

Before usability study



Changed navigational controls

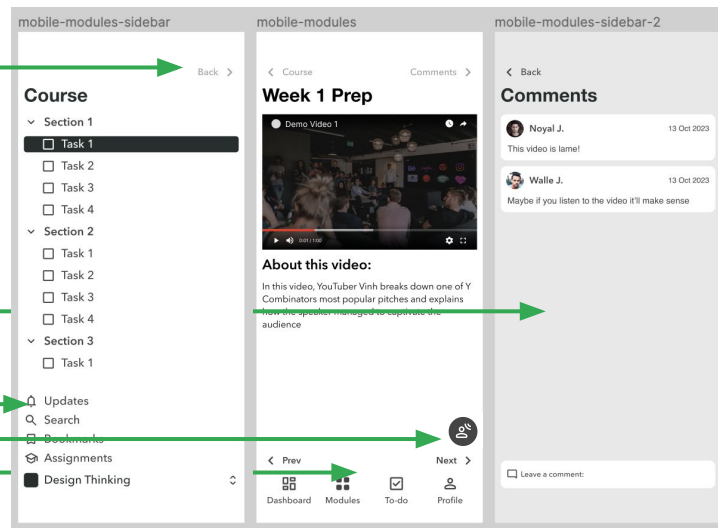
Moved comments to sidebar

Changed style of buttons

Accessibility controls

Added prev/next buttons for progression

After usability study



Mockups

Dashboard View

Back >

Options

Options <

Filters

Type

- General
- Modules

Modules

[Add module](#)

Sort

- None
- Recent
- This week
- This month

Bookmarks

Design Thinking All Sections

Vince R. 12 Oct 2023, 16:15

Research Submission 1

Hi all, great to see you earlier - and con... [L](#)

Data Science All Sections

Walle J. 10 Oct 2023, 10:30

Module Timeline Update

Hey guys, just an update on the module... [L](#)

Dashboard Modules To-do Profile

Module/Course View

Back >

Course

Course < Comments >

- Section 1
 - Task 1
 - Task 2
 - Task 3
 - Task 4
- Section 2
 - Task 1
 - Task 2
 - Task 3
 - Task 4
- Section 3
 - Task 1

Updates

Search


Bookmarks

Assignments

Design Thinking

Week 1 Prep

Demo Video 1



4:01 / 5:02

About this video:

In this video, YouTuber Vinh breaks down one of Y Combinators most popular pitches and explains how the speaker managed to captivate the audience

Comments >

Noyal J. 13 Oct 2023

This video is lame!

Walle J. 13 Oct 2023

Maybe if you listen to the video it'll make sense

Prev >

Next >

Dashboard Modules To-do Profile

To-do View

Back >

Options

Options <

Filters

Deadline

- Today
- Tomorrow
- This week

Modules

[Add module](#)

Sort

- None
- Recent
- This week
- This month

Design Thinking 19 Oct 2023, 22:00

Photo Journal - Space on a page!

This week's task involves creating a photo jou...

Assessment Brief

Design Thinking 14 Oct 2023, 22:00

Prep: Read extract from MOM-Tes...

This week's task involves creating a photo jou...

mom-test-extract.pdf

Design Thinking 16 Oct 2023, 22:00

Understanding Arrays and Lists

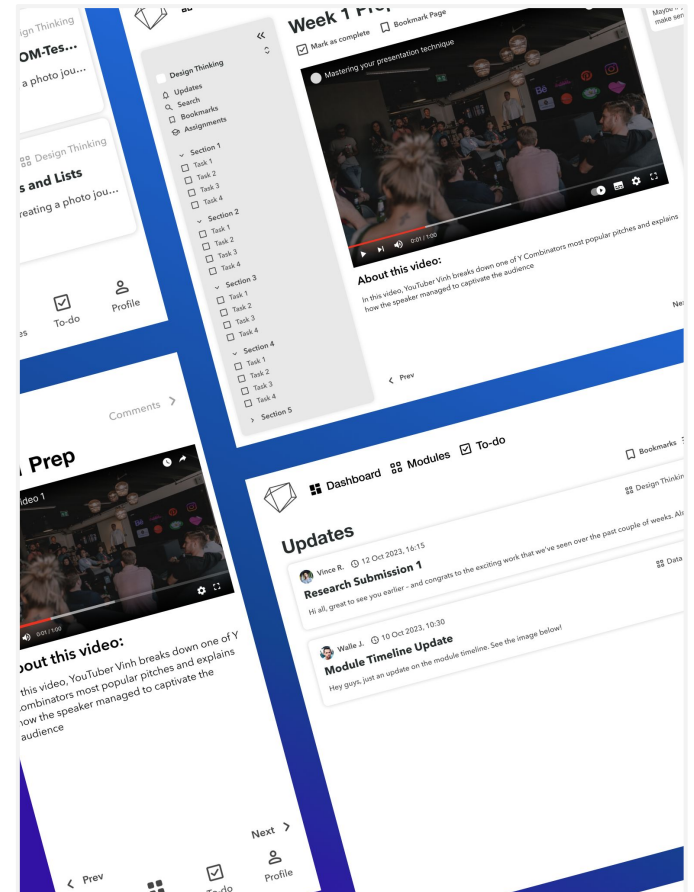
This week's task involves creating a photo jou...

ipyterhub.com

Dashboard Modules To-do Profile

High-fidelity prototype

[Link to high-fidelity prototype](#)



Accessibility considerations

1

Implemented buttons for an screen reader so students can have the content read to them.

This button also has a contrast ratio of 9.58 between the icon colour and background.

2

Ensured majority of the most common buttons (without alternative swipe controls) are placed towards the bottom of the screen so that they're accessible during one-handed operation of mobile device.

3

The sidebars can be toggled and untoggled using swipe controls but also buttons so users can easily navigate the app with limited knowledge of swipe functionality.

Going forward

- Takeaways
- Next steps

Takeaways



Impact:

The design was largely praised on the simplicity.

“I how easy-to-use this is, it’s amazing how [existing VLE] can be transformed to something very easy-to-use if you remove its complexity”



What I learned:

It’s very easy when designing to assume user’s will immediately understand your designs. When designing for a general audience it’s important to question whether your own knowledge is widely known.

It’s very helpful to lean into design decisions of popular apps so you can tap into what users already know.

Next steps

1

Redesign the app to become more colourful.

It can be helpful when each section is signified with a particular colour so students are aware which section they're using.

2

Run another usability test with students having incorporated actual content sourced from the VLE to see how they would use the mobile and desktop app.

3

Consider designing a dark mode for students who often tend to study at night to prevent eye-strain.