

# Action research project: Making Moodle more inclusive

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The screenshot shows the Moodle course page for '23/24 BA (Hons) Product and Industrial Design'. At the top, there is a header image with a dark overlay containing the course title. Below the header, a breadcrumb trail reads 'Dashboard / Courses / 23/24 BA (Hons) Product and Industrial Design'. A button labeled 'Open course menu' is visible. A navigation bar contains tabs for 'BAPID', 'Stage 1', 'Stage 2', and 'Stage 3'. Below this, a row of boxes represents different study areas: 'Technical studies', 'Contextual studies', and 'Sustainable design studies'. A banner image credit states: 'Banner image: Georgina Heaton, BA PID, UAL Image library'. The main content area is titled 'Course noticeboard' with a sub-header: 'Please use this space to share resources across the whole course. If you need any help, contact pci'. Below this are three columns: 'Notices', 'Design Transforms', and 'Exhibitions'. Each column has a '+' icon. The 'Notices' column shows a post by 'Paul De'Ath' about the 'International Train Design Competition 2024'. The 'Design Transforms' column shows a post by 'Anonymous' about 'Design Transforms - Theo Williams'. The 'Exhibitions' column shows a post by 'Anonymous' about 'MA Design for Industry 5.0 Mini Show!' and 'FUNCTIONAL FABRIC EXHIBITION'.

23/24 BA (Hons) Product and Industrial Design

[Dashboard](#) / [Courses](#) / [23/24 BA \(Hons\) Product and Industrial Design](#)

Open course menu

BAPID Stage 1 Stage 2 Stage 3

Technical studies Contextual studies Sustainable design studies

Banner image: Georgina Heaton, BA PID, UAL Image library

Amy Urry + 8 8h

### Course noticeboard

Please use this space to share resources across the whole course. If you need any help, contact [pci](#)

Notices Design Transforms Exhibitions

+

Paul De'Ath 8h

#### International Train Design Competition 2024

Call for Entries  
International Train Design Competition 2024  
Sustainable Future Rail Transit Systems

**Design Competition Themes:**  
Innovative Urban Rail designs that solve the transportation issues of today.  
**Environment and sustainability:** Carbon zero travel, encouraging people to use train transport to minimise fossil consumption, design for longevity.  
**Industry:** Tools for all ages and abilities, flexible seating solutions, convenient board for arrival or departure, sustainable and low waste travel.  
**Interconnectivity:** Transferring from one mode of transport to another, multimodal experiences, boosting the convenience of rail travel, first and last mile.  
**Safety:** All aspects of passenger and staff safety, cleanliness, safe evacuation, communication, fire safety.

Anonymous 21d

#### Design Transforms - Theo Williams

uol: **DESIGN TRANSFORMS**  
Theo Williams  
21st November 2023, 18:00 K101

Product Design and Embedded Design Programme

MA Design for Industry 5.0 Mini Show!

FUNCTIONAL FABRIC EXHIBITION

# Research question:

To what extent does our **Moodle design template** support inclusive practice in relation to neurodiverse and disabled students?

Colour and  
images

► Your course

▼ Part 1



Spacers



Proper  
headings

## Part 1 Teaching area

Contextual  
information

In this section, you will find your curriculum area content. The information and teaching resources you will need for your session are in this area. During part 1, you will need to check this area regularly to accomplish.

# Why does it matter?

- 21% students at CSM declare a disability (nationally 17% population)\*
- Social model of disability at UAL.
- Legal requirement: Anticipatory adjustments and WCAG 2.1 AA
- Improved functionality and design will benefit everyone.

## For me:

Unit 1 – Identified need to hear the voices of disabled staff and students directly.

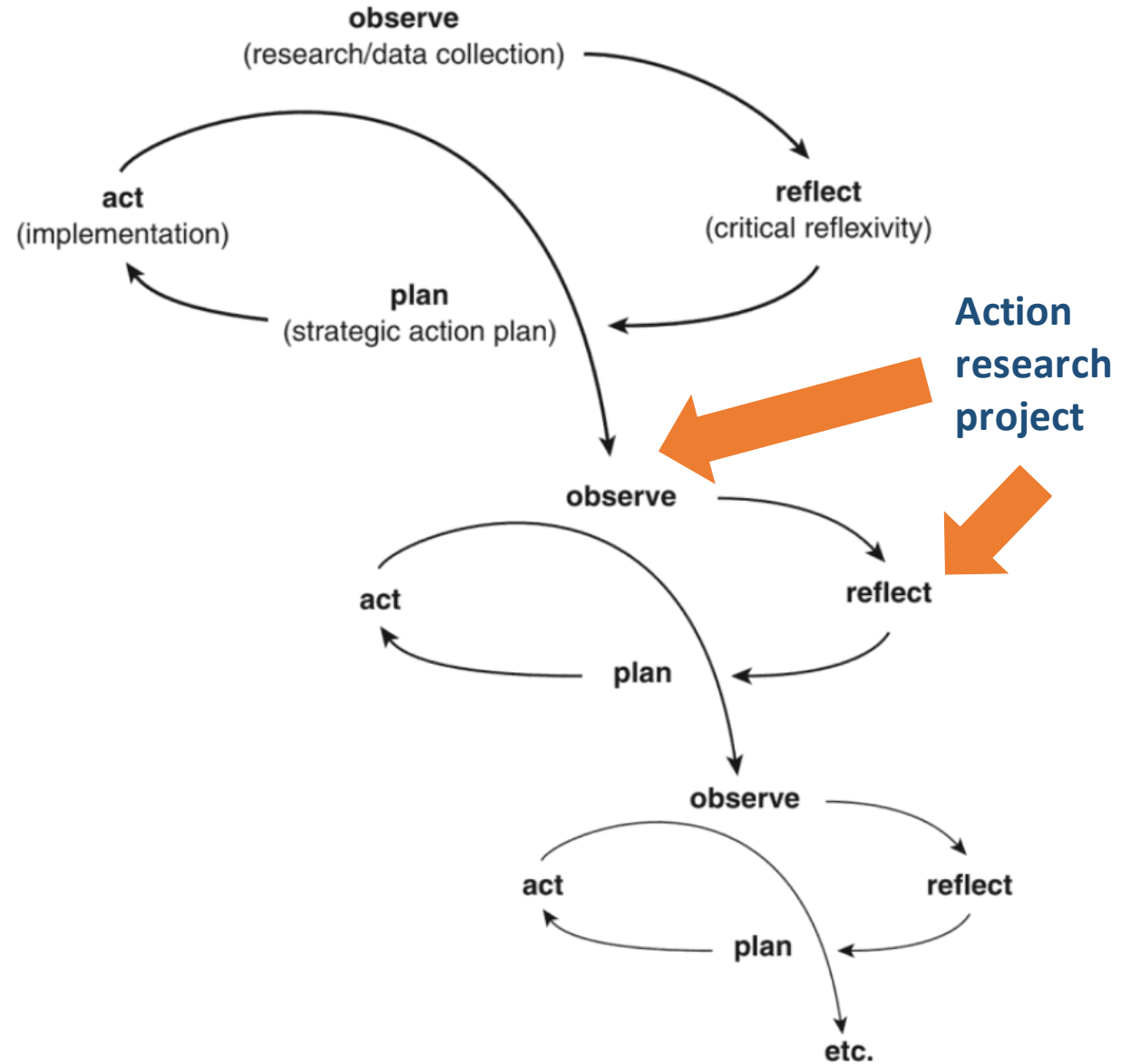
\*UAL Dashboards 2023 and Office for National Statistics 2021



**Blog:** more detail on rationale and context.

# Action research cycle:

Development of Moodle pages  
during past two years



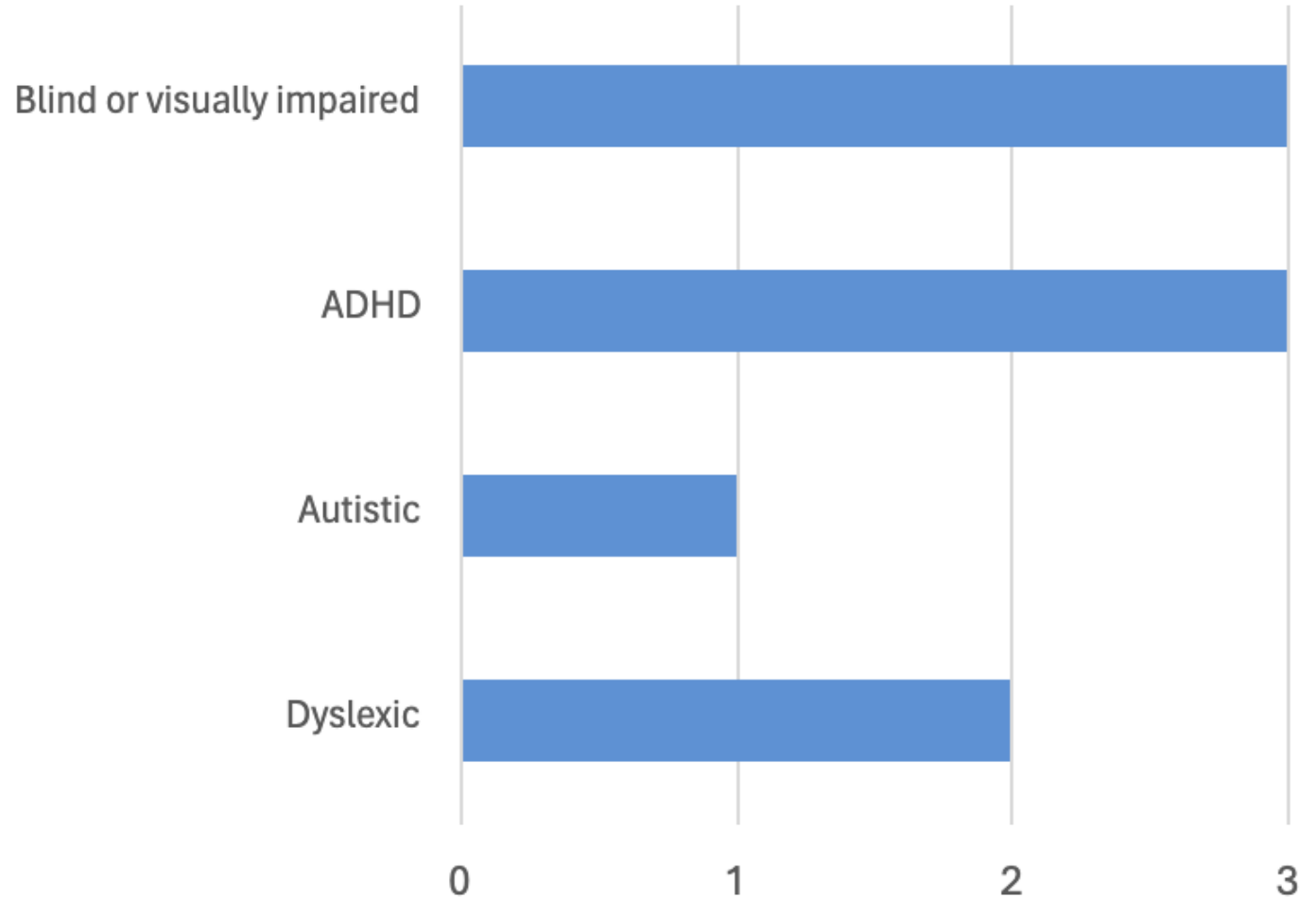
O'Leary's cycles of research cited in Koshi, Koshi, and Waterman, (2011) *Action Research in Healthcare*

# Participants:

Volunteered their time to help.

- 2 members of staff
- 4 students
- 2 different courses – one Foundation, one BA

The chart shows how they identified, but I was very aware they don't represent these groups and they will also identify in many other ways.



**Blog:** more detail on recruiting participants.

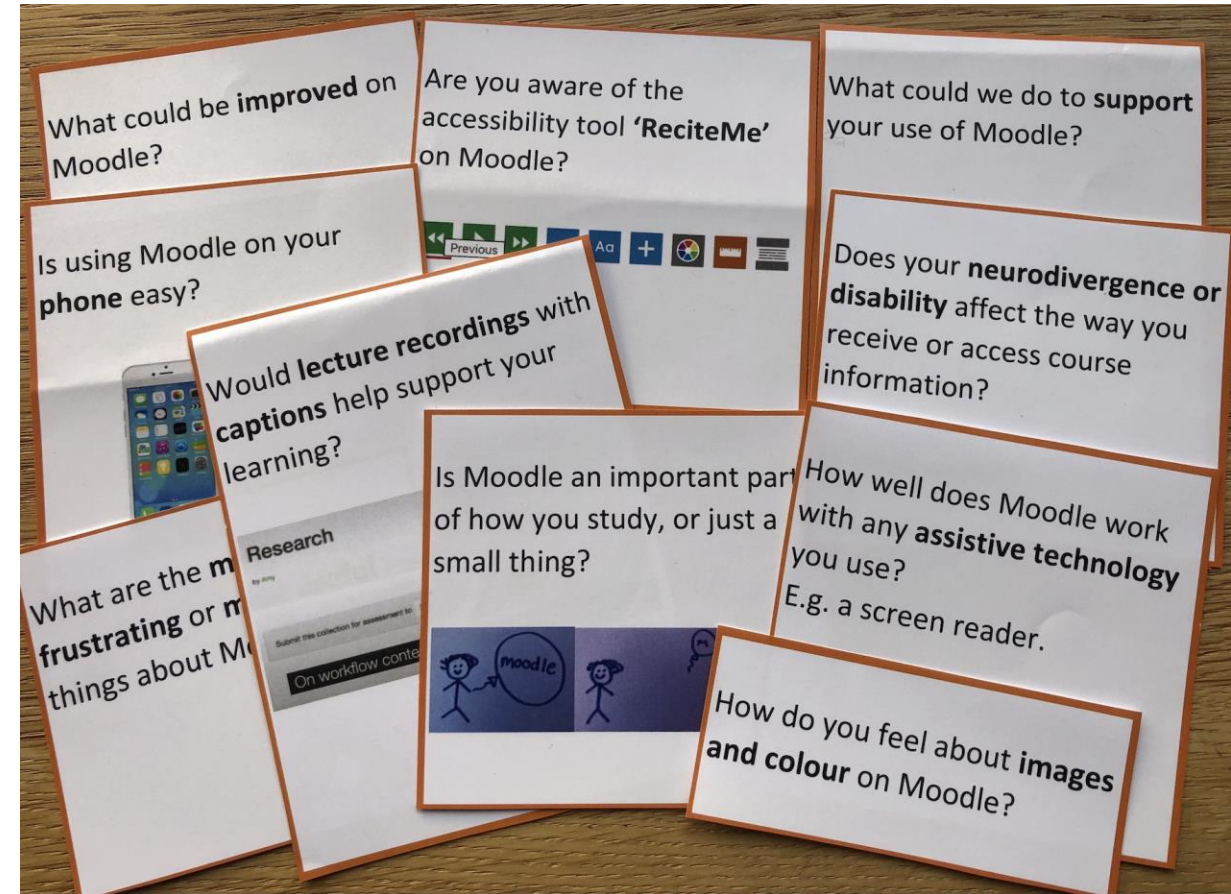


# What happened?

- **Methods:** Online questionnaire, semi-structured interviews, drawings.
- **Approach:** participant-centred – Standpoint Theory and Intentionally Equitable Hospitality.

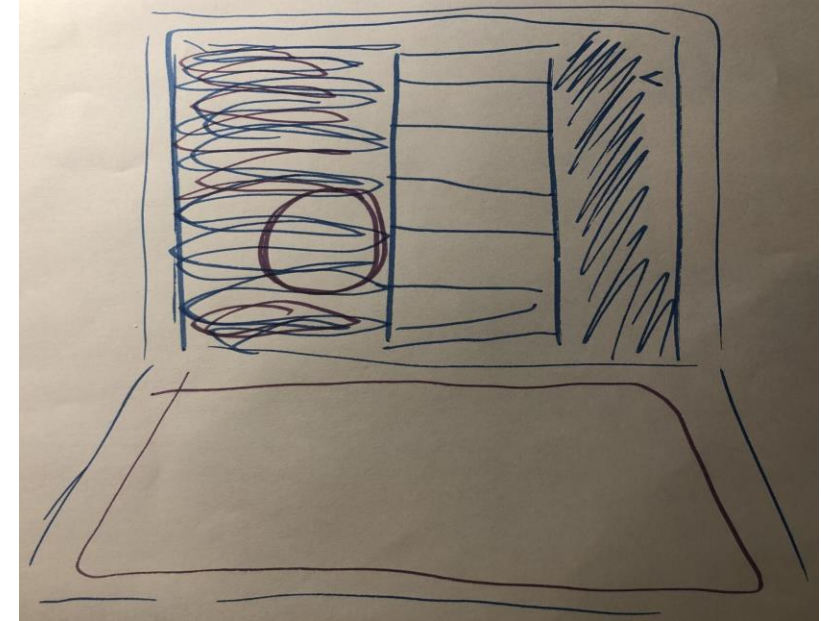
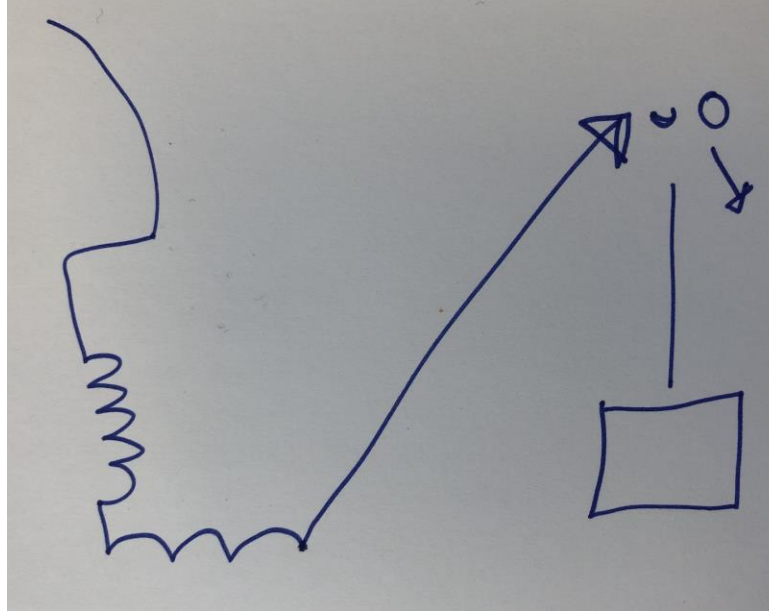
4. Thinking about your course Moodle page(s), to what extent do you agree with these statements?

	Strongly agree	Agree	Disagree	Strongly disagree
Moodle is a helpful tool on my course.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can find what I need fairly quickly.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



**Blog:** Research methods selection/design and UX and neurodiversity and disability

# Can you draw your experience of Moodle?



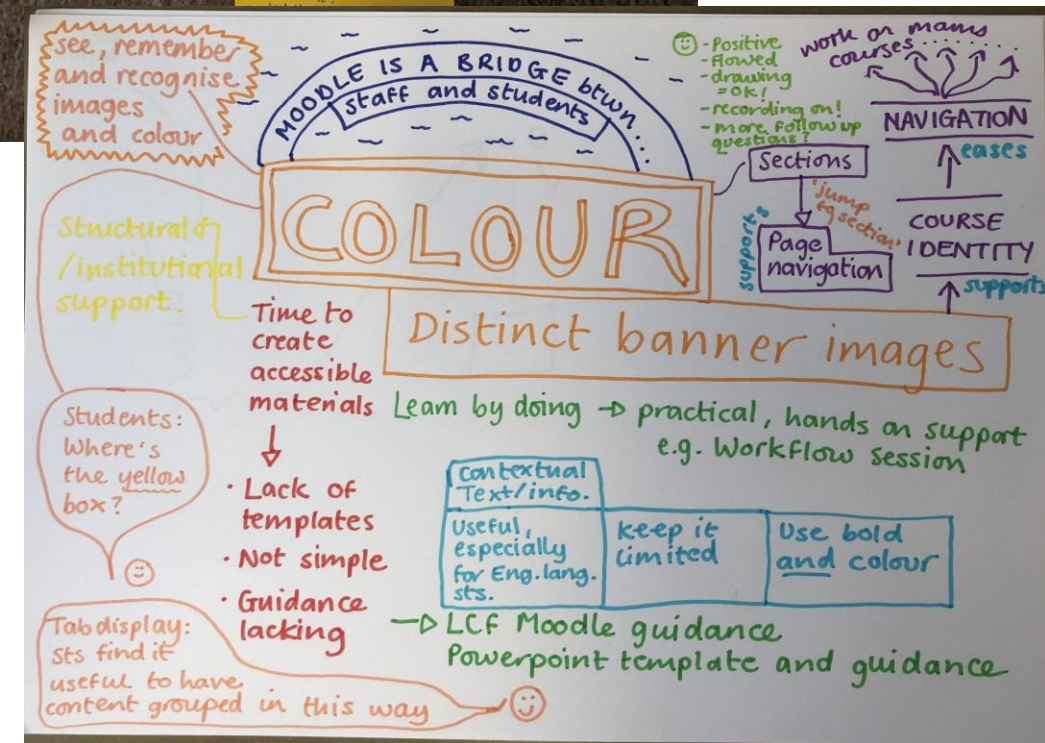
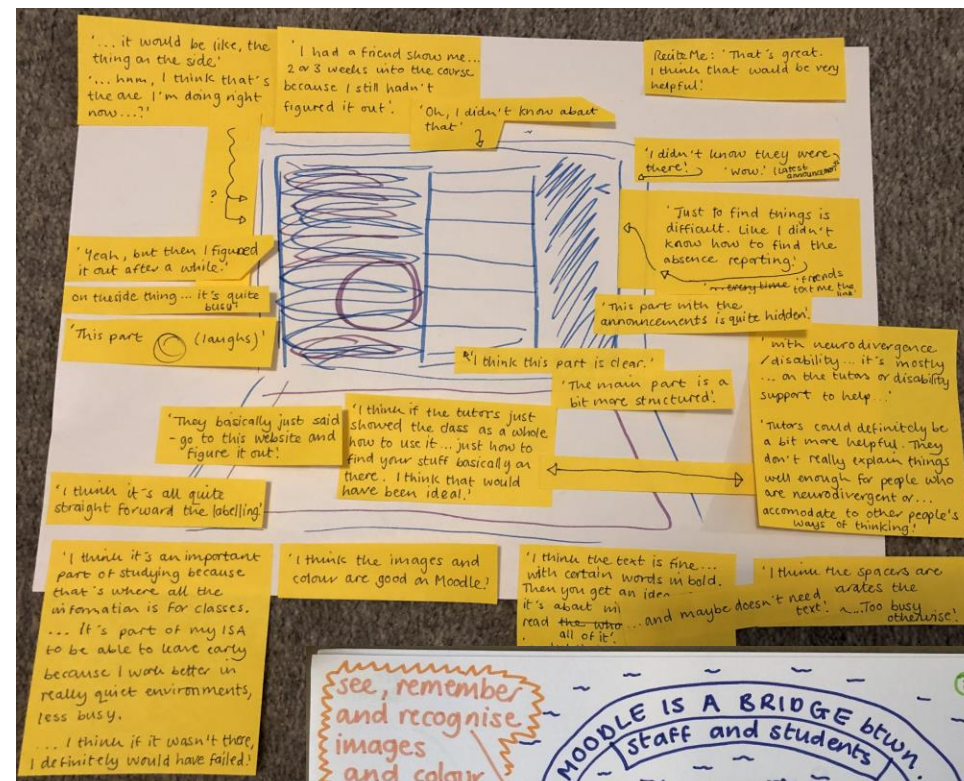
‘It's like walking through like a kind of cloudy park like a misty park during like those crappy fall days where it's like sometimes there's a little bit of visibility and I sort of know where I'm going and sometimes I'm trying to find something but I don't really know what it is, and everything is kind of foggy, so it'll take me like 15 mins or so but the park is only so big so I'll get to it at some point.’ Excerpt from voice drawing



# Thematic analysis

'The purpose of TA is to develop patterns of meaning ('themes') across a dataset that address a research question.

(Braun and Clarke, no date)





# Thematic analysis: Coding and categorising



Accessing presentations mostly outside of class.

Moodle: purpose

Never used Moodle on my phone.

Use on phone

I think the images and colour are good on Moodle.

Use of images

I think it's a bit confusing because there's so much information on Moodle and that makes it a little hard to navigate sometimes. But I don't know how that would be improved because I think all the information on there is necessary.

Amount of information

I think this part (main part) is clear but on the side bar it's quite busy.

Appearance

Contextual information: text is fine when certain words are in bold to get an idea what it's about. But other things are pretty self explanatory and don't need text. e.g. timetable.

Contextual info: presentati...

The spacers are good, separates the information, it would be too busy otherwise.

Spacers and headings

With neurodivergence, it's mostly on the tutors or the disability tutors to help support students to navigate Moodle or figure that out.

Support from staff

'The tutors could definitely be a bit more helpful with that. They don't really explain things clearly enough for people who are neurodivergent or... accommodate maybe other people's way of thinking.'

Support from staff

Showing information on Moodle would be a lot more helpful. Doing it regularly through the course, not just at the start.

Support from staff

'I think it's an important part of studying because that's where all the information is for classes and I usually leave class early because I work better in really quiet environments. less busy, so I just find what I missed from class on there. I think if that wasn't there I definitely would have failed.'

Moodle: importance

Information is reliably there.

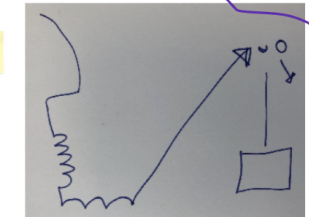
Content: usefulness



Things that staff could do:

Support from staff

ReciteMe



Things that would improve Moodle:

Captions and re...

Suggestio...

Use on phone

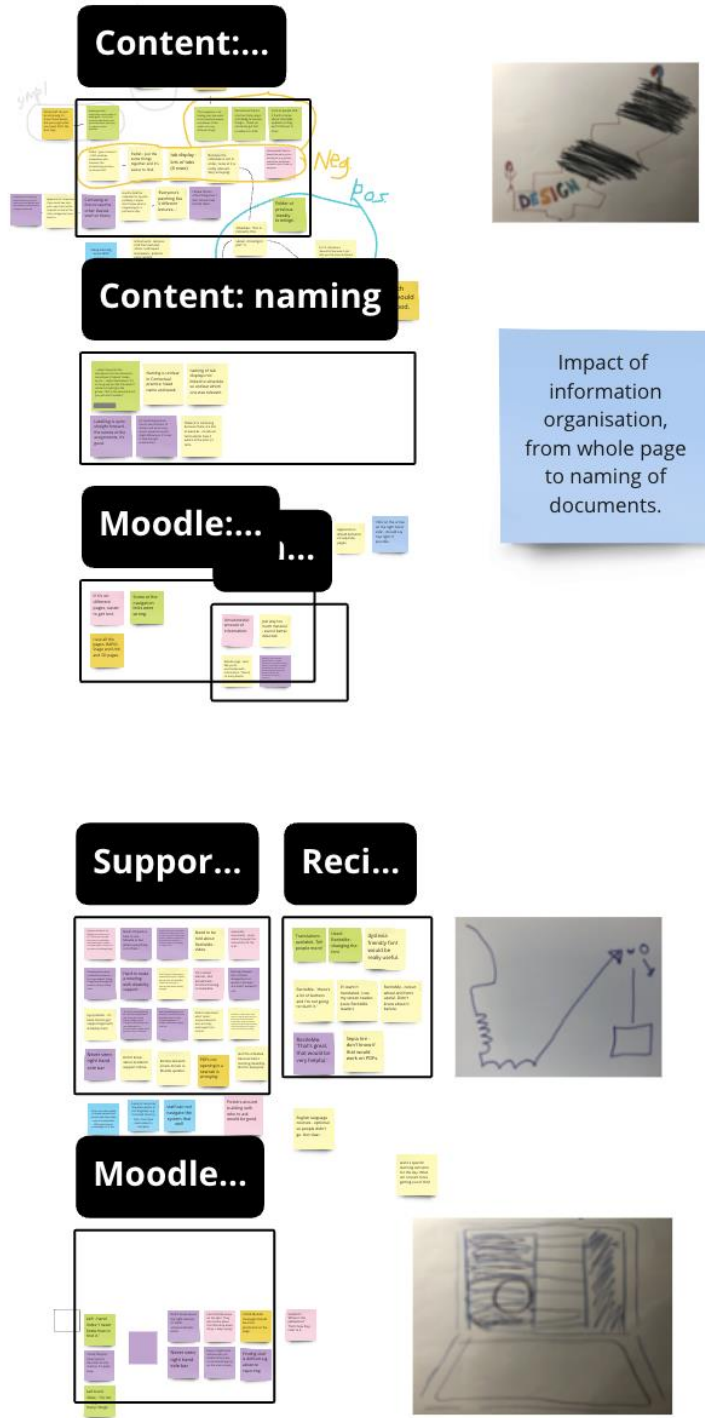
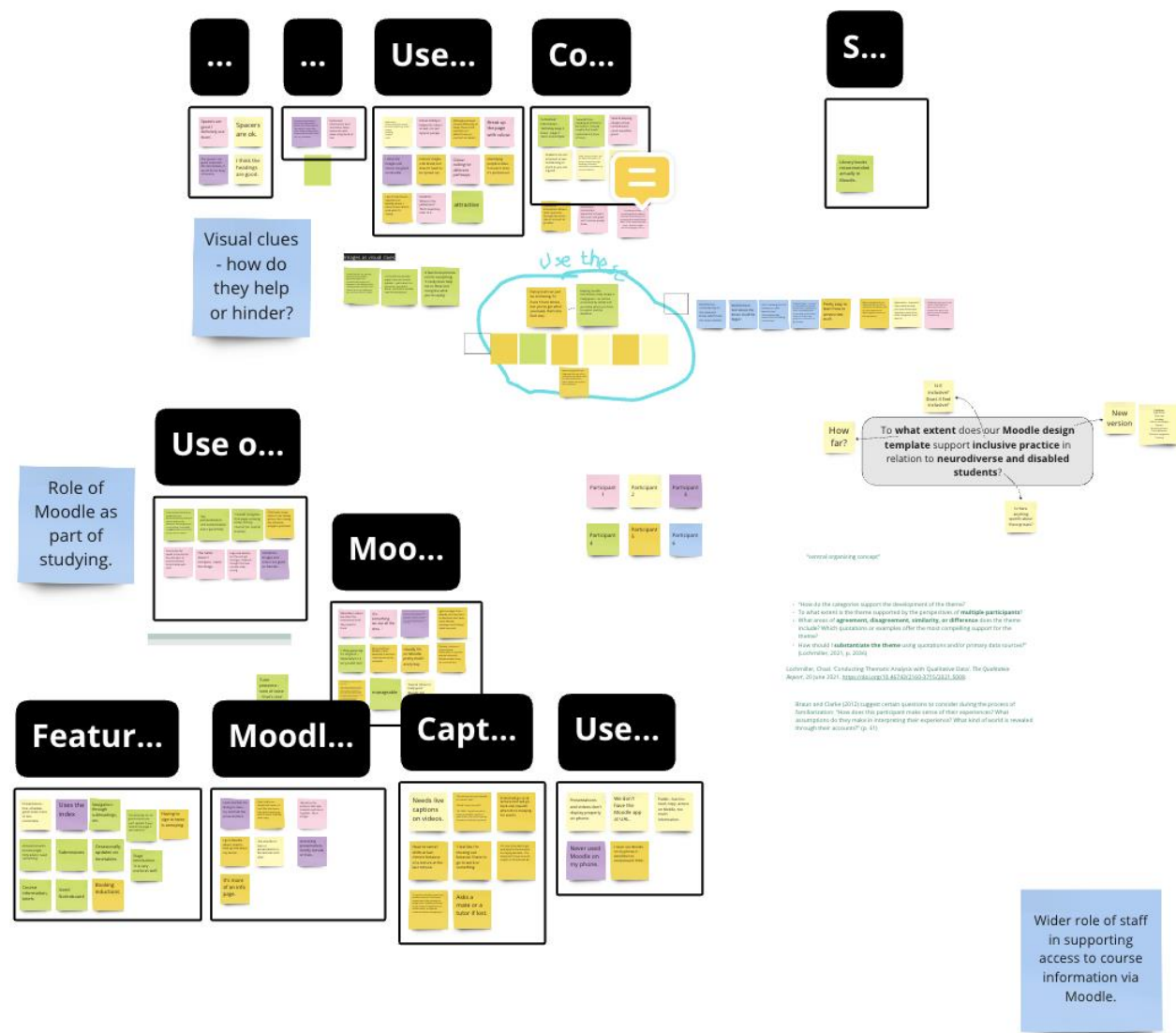
Needs live captions on videos.

Problems around building with who to ask would be good.

Presentations and videos don't display properly on phone.

Never used Moodle on my phone.

# Deciding on themes



**Blog: Trying out thematic analysis**

# Project findings: 4 Themes

1. Moodle plays an important role in learning and teaching.

**'Moodle is the platform that links students and tutors together... like a bridge'. Participant 1**

**'I think if that wasn't there I definitely would have failed.'**  
Participant 3

2. Organisation of content has a critical impact on the user experience.

**'Sometimes it just feels like you're overloaded with information.'**  
Participant 2

**'...the title doesn't relate to anything in the group... That is the document, but you just don't realise that.'**  
Participant 4

# Project findings continued:

3. Presentation matters: clean, clear and simple is best.

**'I think to have it bare bones, but like you've got what you need, I think that's the best way'**

Participant 5

**'I personally like it where the bold and the colour is introduced because I compute that more than a big chunk of text'.**

Participant 1

4. Staff guidance, or lack of, makes a significant difference.



**Blog: full analysis and report**



**Research question:** To what extent does our Moodle design template support inclusive practice in relation to neurodiverse and disabled students? **Partially...**

## **Positive features:**

- Moodle is important for participants and provides flexibility.
- Content is reliably available.
- Headings, spacers, bullet points, colour reduce cognitive load.
- Personalisation may be beneficial.
- Usable via a screen reader.

## **Areas for improvement:**

- Clarity and consistency in the naming of documents/signposting.
- Provide lecture recordings.
- Reduce the amount of text.
- Better training and support for staff: ReciteMe, orientation, confidence.
- More use of colour-coding.

**Blog:** full analysis and report

# Next steps:

Development of Moodle pages  
during past two years

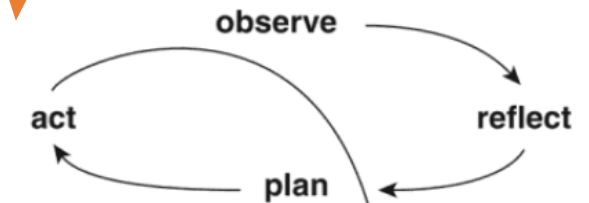
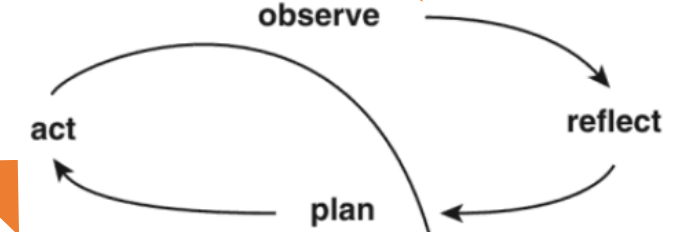


Action  
research  
project



Development of CSM  
Moodle template.

Changemaker project



etc.

O'Leary's cycles of research cited in Koshi, Koshi, and  
Waterman, (2011) *Action Research in Healthcare*

**Blog: Looking back on ARP**

# Bibliography:

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Braun, V., and Clarke V. (no date) 'Understanding TA', *Thematic Analysis* Available at: <https://www.thematicanalysis.net/understanding-ta/> (Accessed: 11 January 2024)

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Parson, L (2019) 'Chapter 2: Considering Positionality: The Ethics of Conducting Research with Marginalized Groups' in Strunk and Locke, eds. *Research Methods for Social Justice and Equity in Education*. Cham: Springer International Publishing pp. 15-32

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Adams, W. 'Conducting Semi-Structured Interviews' In *Handbook of Practical Program Evaluation*, edited by Kathryn E. Newcomer, Harry P. Hatry, and Joseph S. Wholey, 1st ed., 492–505. Wiley, 2015. Available at: <https://doi.org/10.1002/9781119171386.ch19>. (Accessed 22 November 2023)

Lonsdale, M., Qin X., Chen Y., Green H., Algethami M., and Xu J. 'The Power of Information Design in Enhancing the Organization of Information and Course Material in an Online Virtual Learning Environment (VLE)'. *Information Design Journal* 27, no. 3 (31 December 2022): 235–77