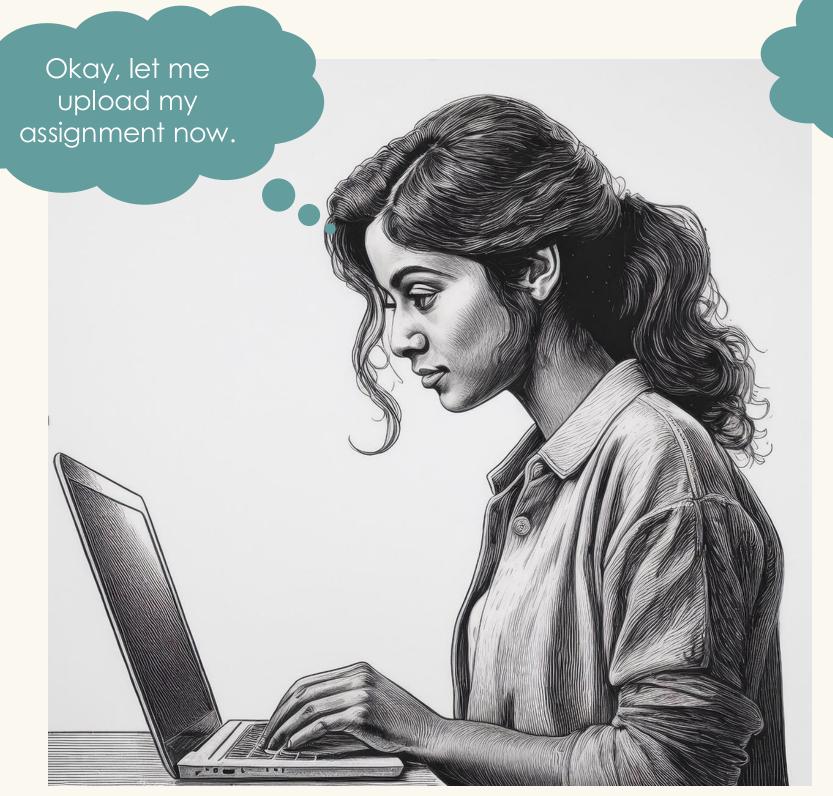
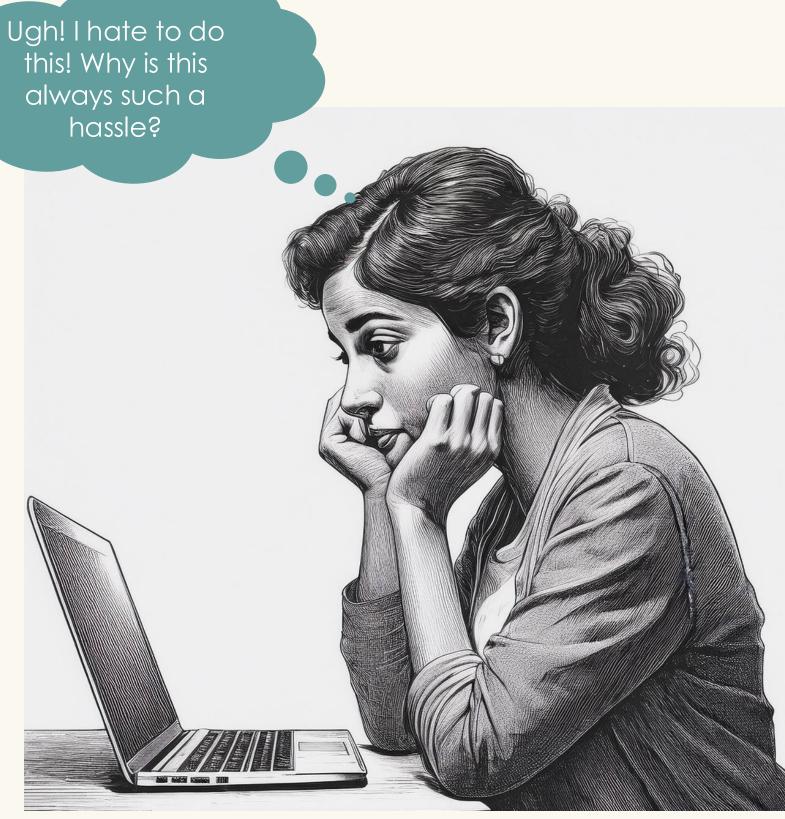
WHAT IS THE PROBLEM?

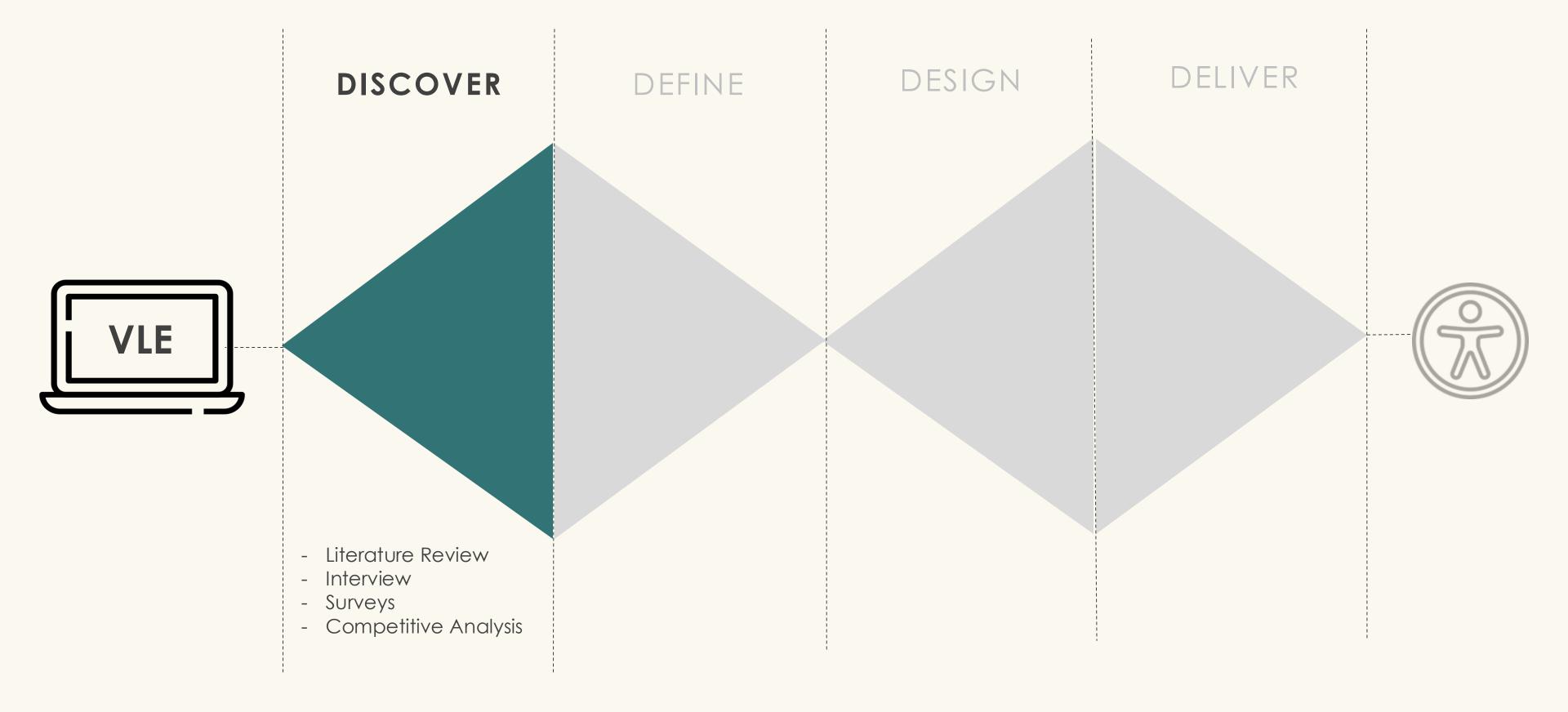




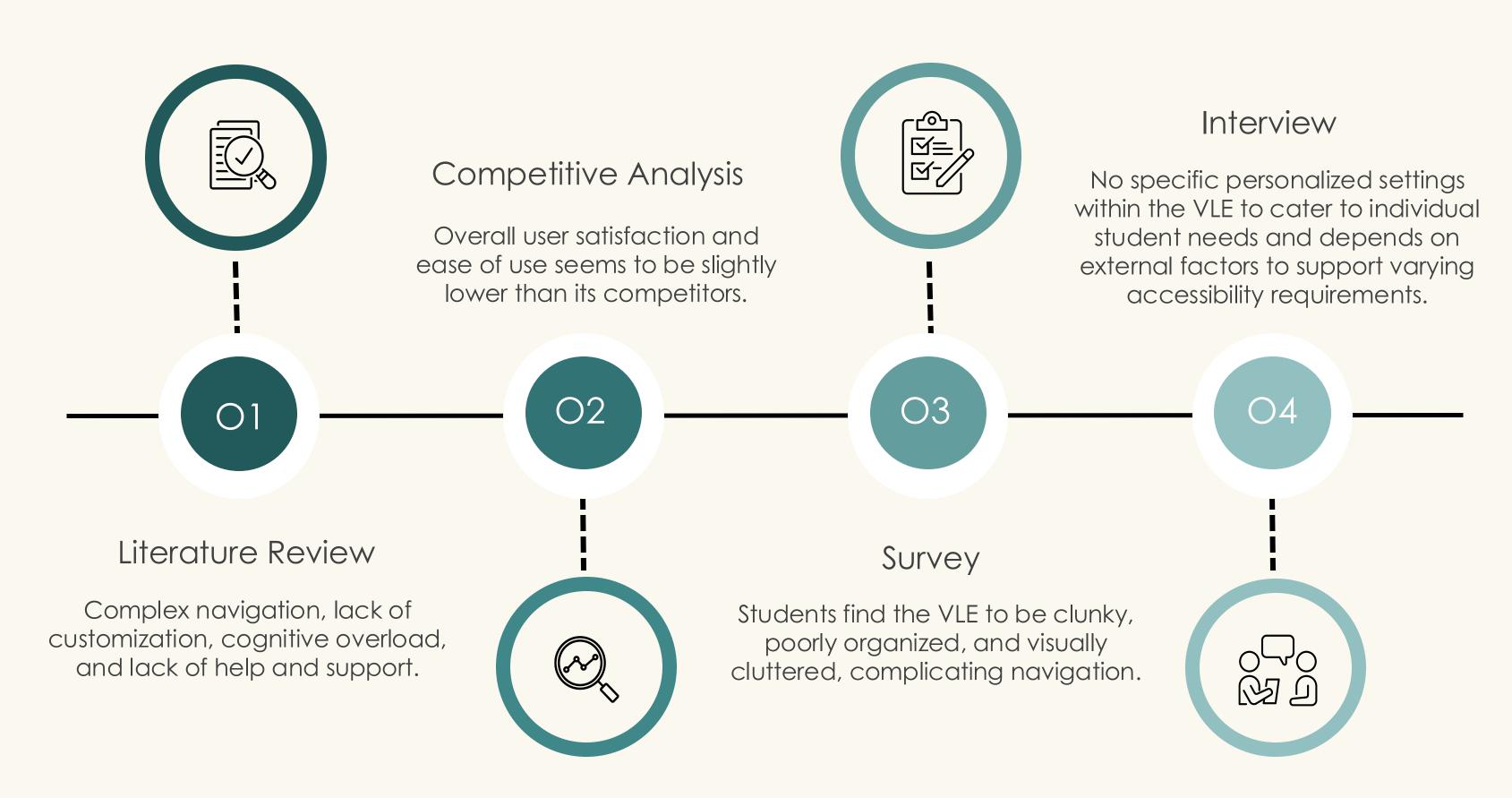


Bridging the Accessibility Gap: Enhancing Goldsmiths' VLE for Students with Dyslexia

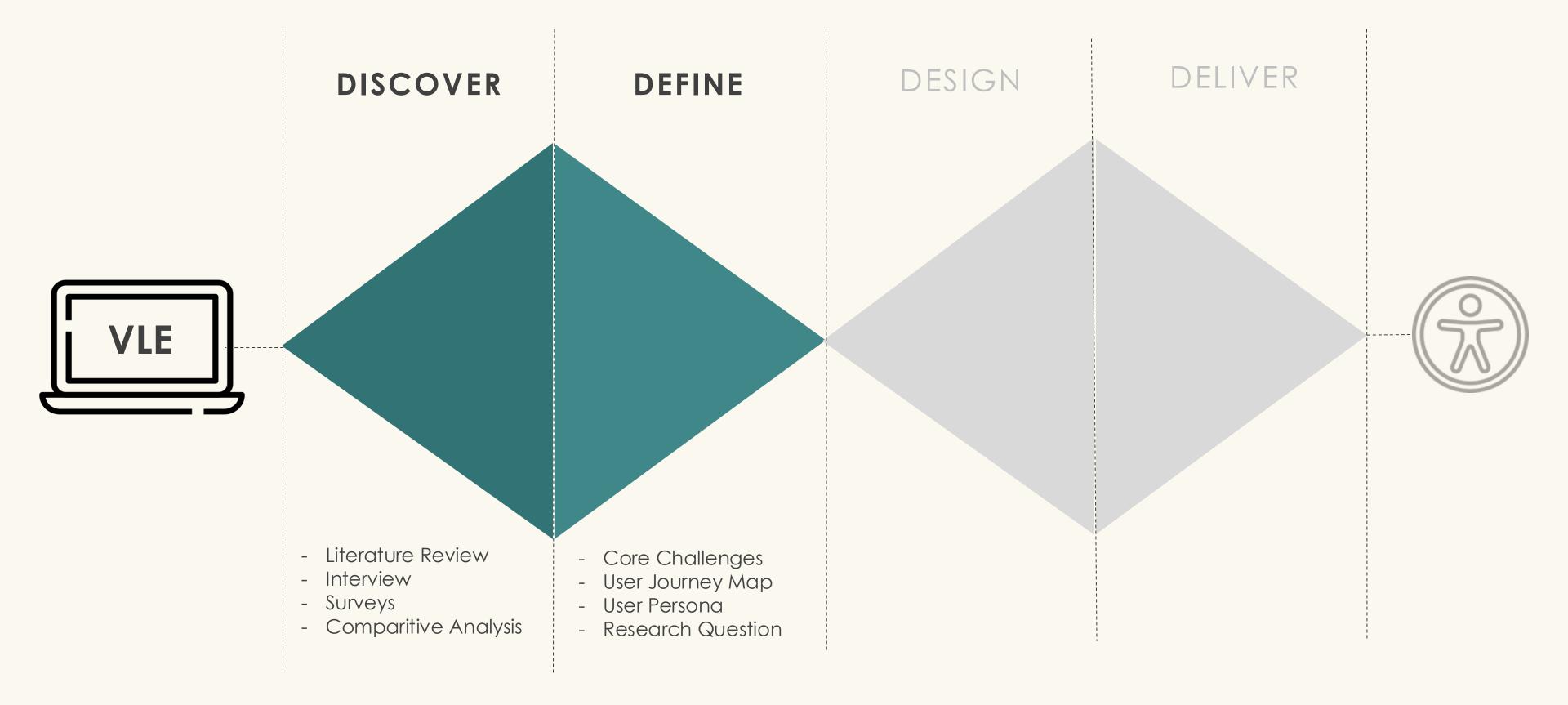
PROCESS: DISCOVER



DISCOVER: KEY INSIGHTS

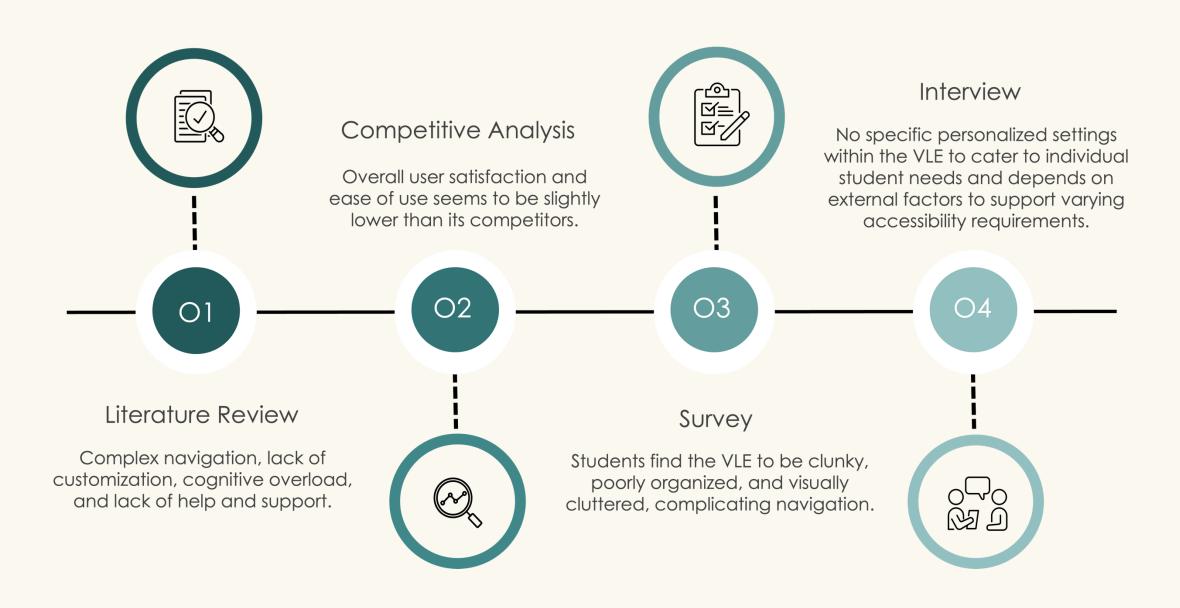


PROCESS: DEFINE



CORE CHALLENGES

INSIGHTS



CORE CHALLENGES

Improve Navigation

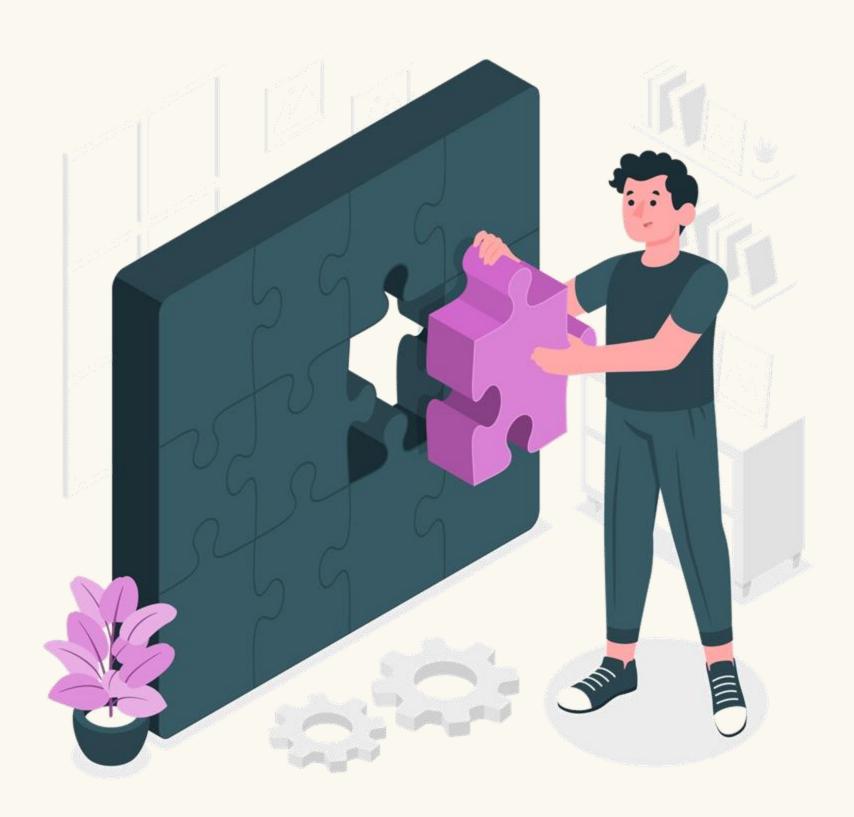
Improve Content Clarity

Improve Ease of Use

Provide a Customizable Interface

Improve Visual Design

RESEARCH QUESTION

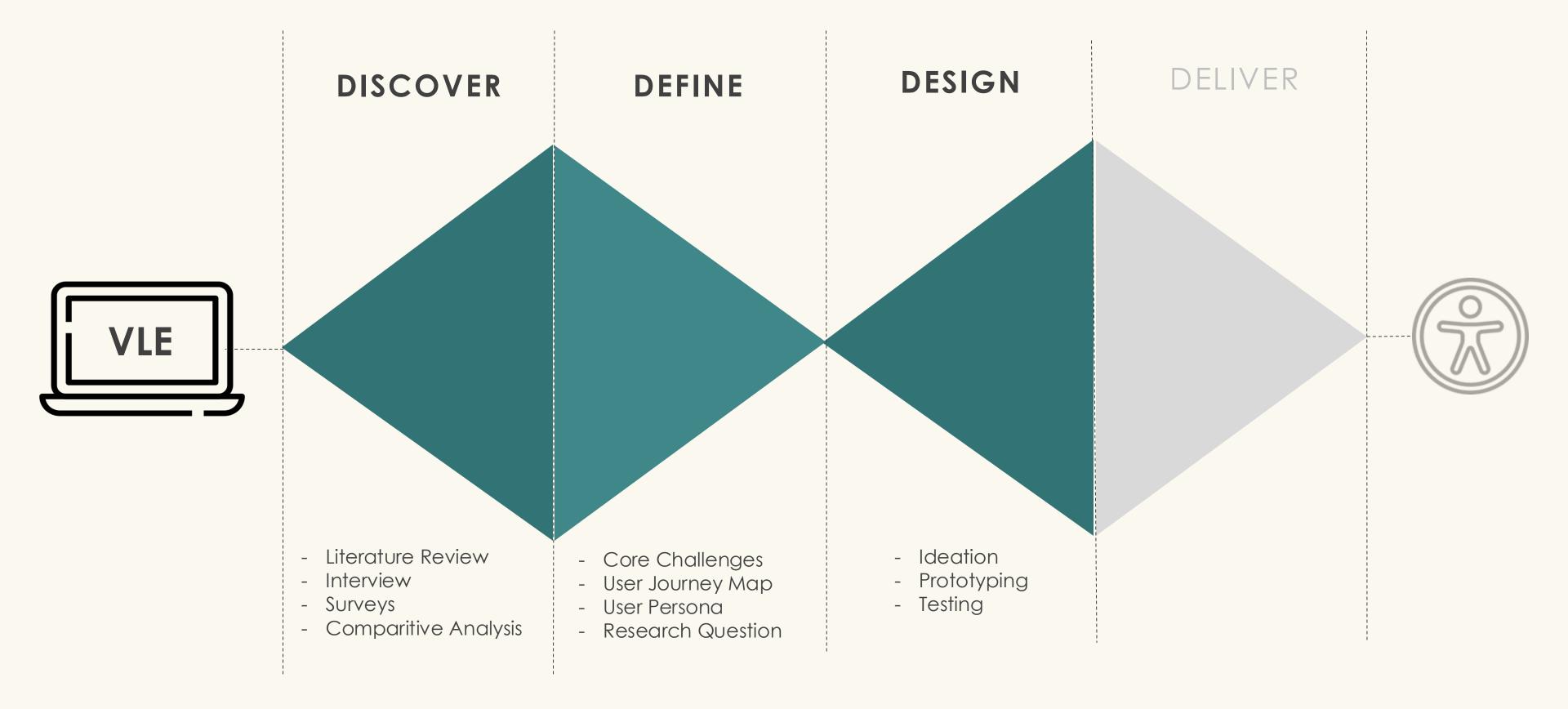


How can Goldsmiths' Virtual Learning Environment (VLE) be enhanced to improve accessibility for students with dyslexia?

• What specific design features and interface elements can be implemented in the VLE to better support students with dyslexia?

Image Source: Freepik.com (2024)

PROCESS: DESIGN



IDEATION

BRAINSTORMING

NAVIGATION

- Search
- Hamburger
- Breadcrumbs
- Back buttonCourse Page

STAFF TRAINING

Materials to be uploaded - needs to be accessible

HELP AND SUPPORT

- Resources
- Chat Option,

AI BASED

- Personalise modules based on the learner
- · Summary on Lecture Notes
- · Content on VLE

WRITING SPECIFIC

- Assignments
- · Spell-check and Grammar

VISUAL DESIGN

CONTENT-SPECIFIC

Error Messages

Language Used

· Font Based Changes

Unwanted Elements

· Unwanted elements

- Adjust Color
- Calendar
- Icons

READING-SPECIFIC

- Text-speech
- · Focus Reader
- Al
- · Labels and Links

LAYOUT

- Tab Layout
- Hamburger Menu

KEY IDEAS

Navigation & Visual Design

- Search Button
- Breadcrumbs
- Hamburger Menu Structure
- Calander Layout
- Remove Unwanted Elements

Content Clarity and Comprehension

- Readability of Text
- Information Presentation
- Error Messages
- Use More White Space

Customizable Interface

Accessibility Toolbox

CRITERIA FOR SELECTION

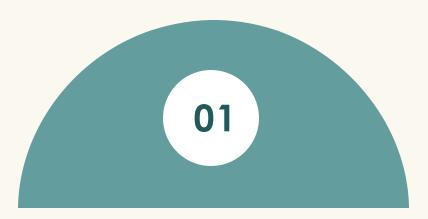
Relevance

Impact

Feasibility

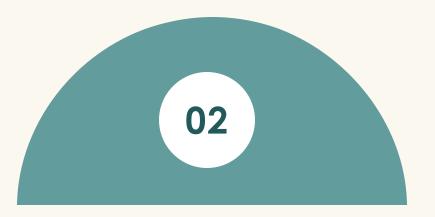
PROTOTYPING







SketchesInteractive Prototypes using Figma



Process

Tested and refined based on user feedback

Usability Testing

- 7 Tasks
- Task Performance Metrics





Survey

- WCAG Compliance Survey
- Post-task Survey

TESTING

Semi-structured Interview

 Overall Rating of the Redesigned VLE

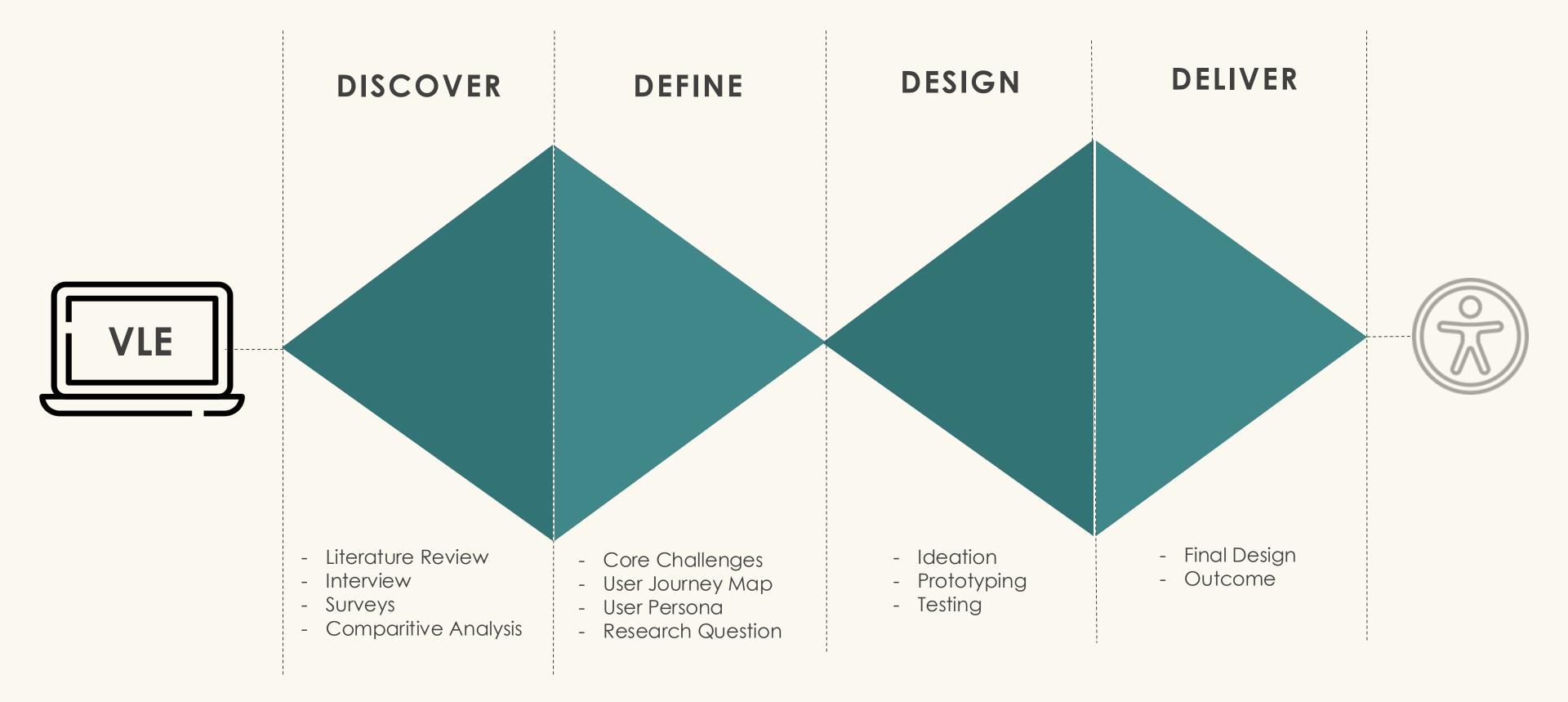




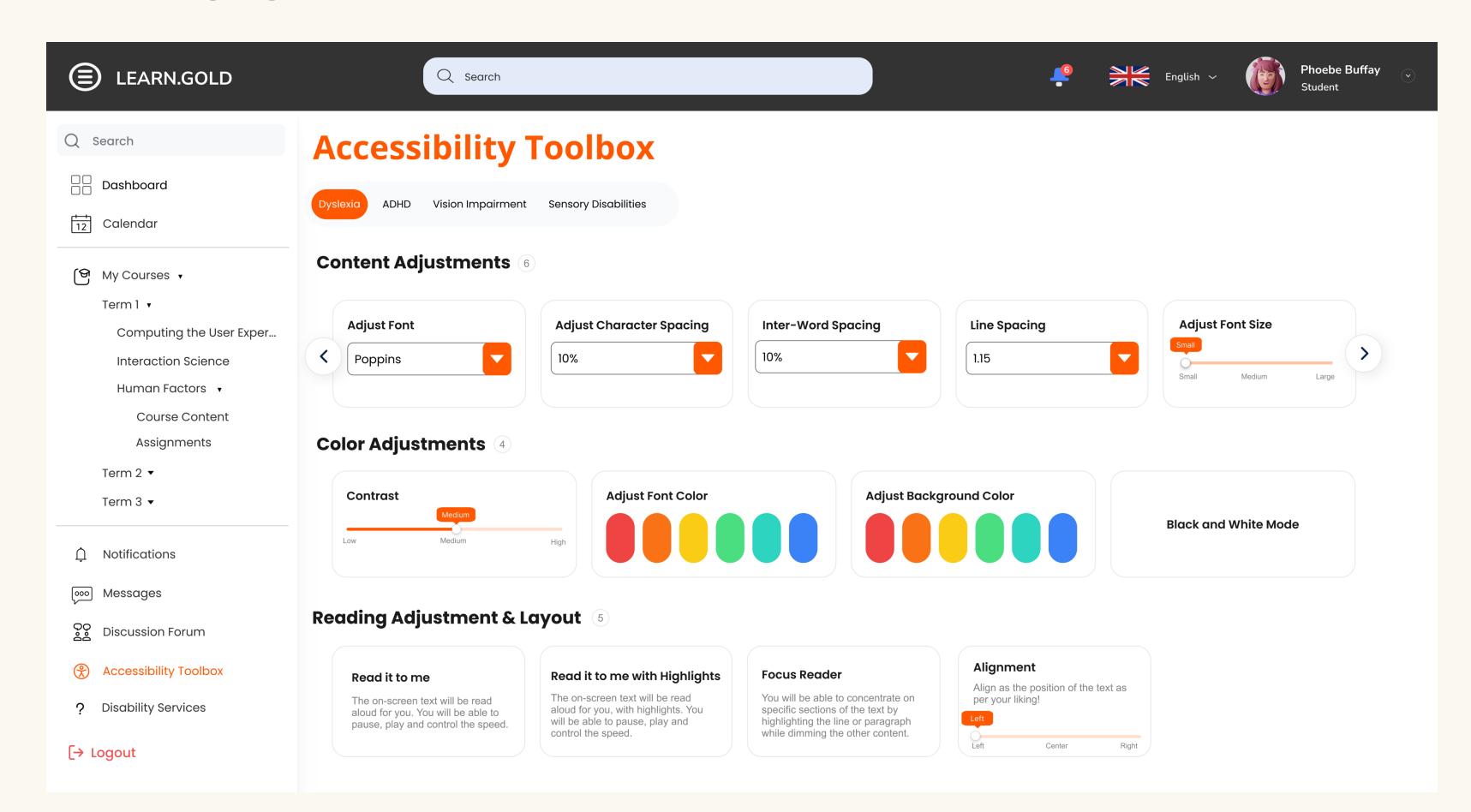
Expert Review

- Test Guidelines
- Test Overall Accessibility

PROCESS: DELIVER

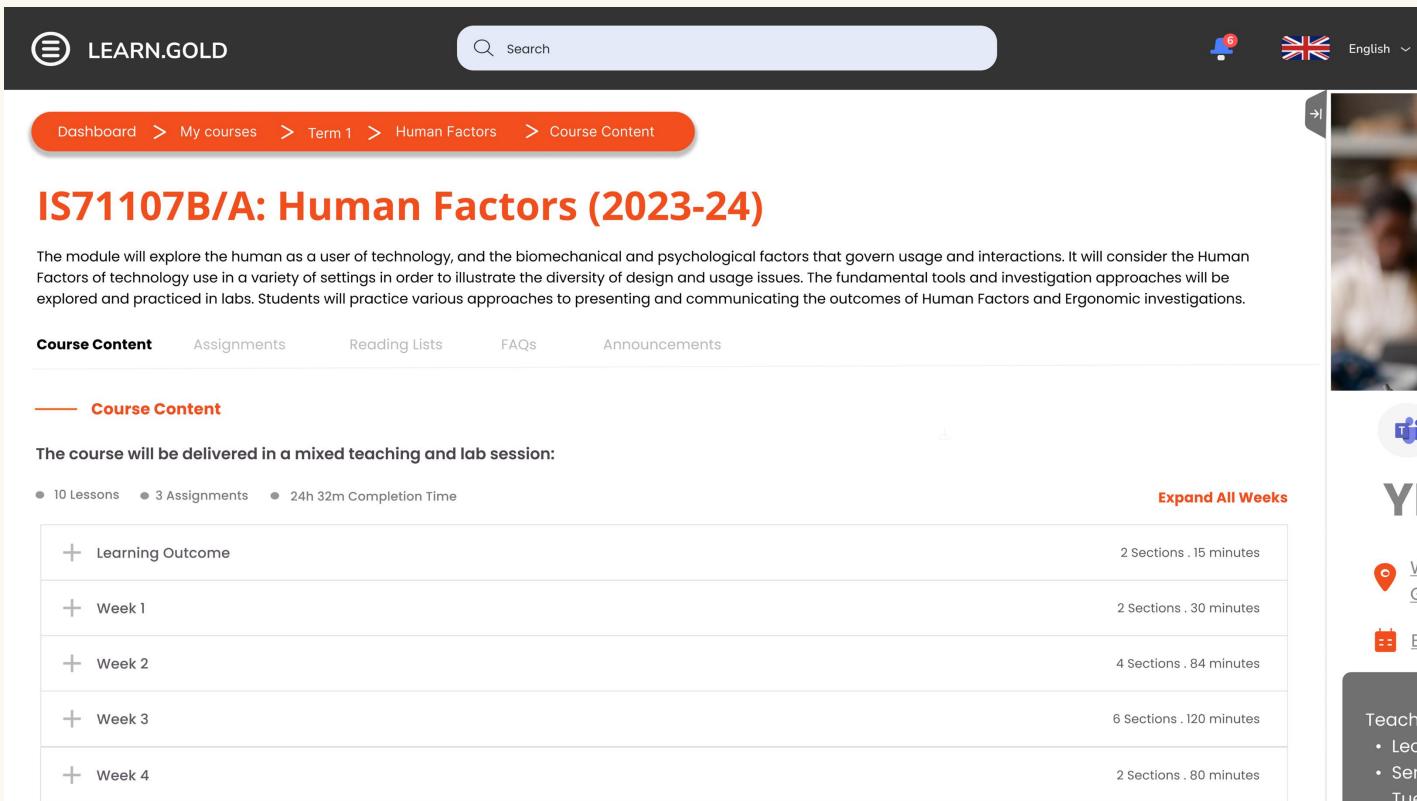


FINAL DESIGN



FINAL DESIGN

Download Lecture Schedule 🕹





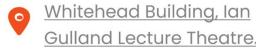






Phoebe Buffay

YIN CHEN

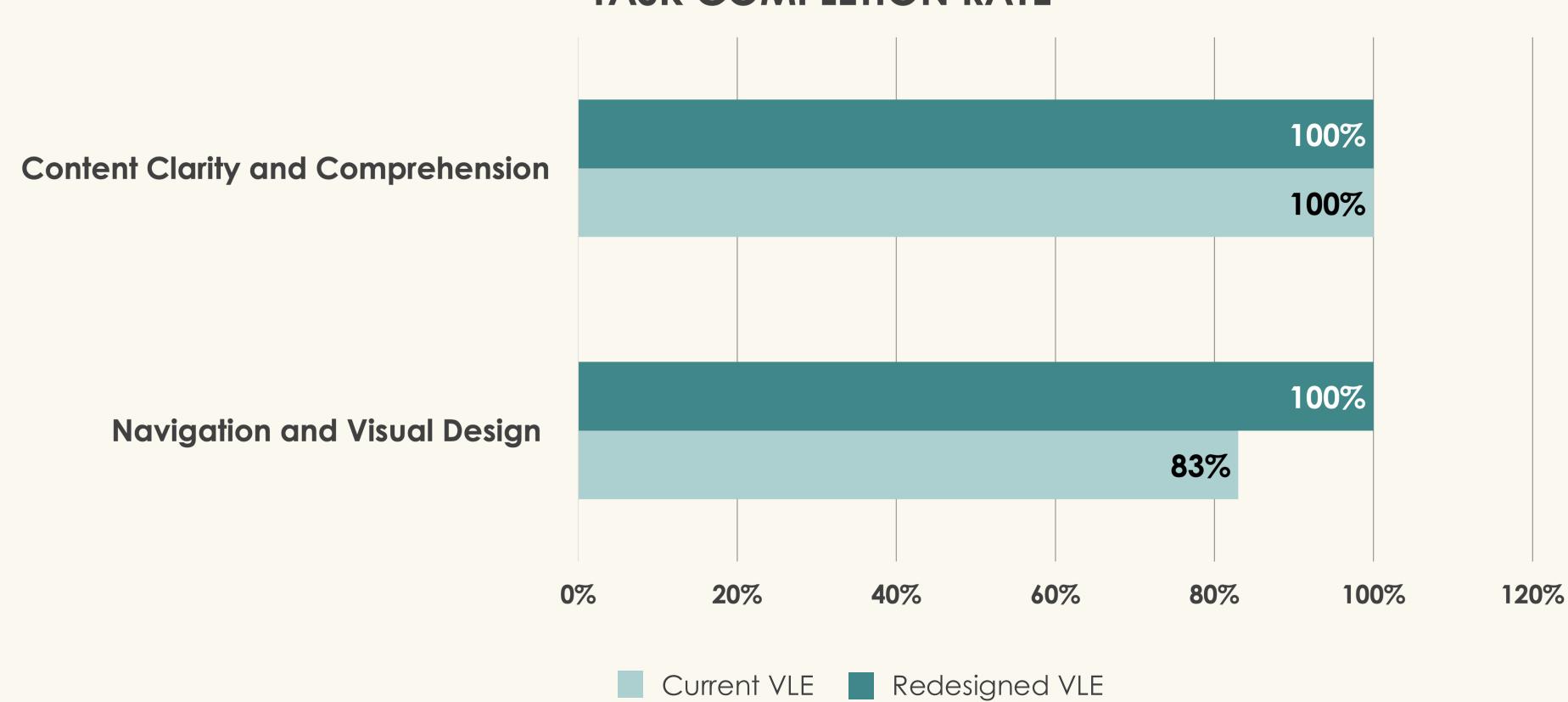


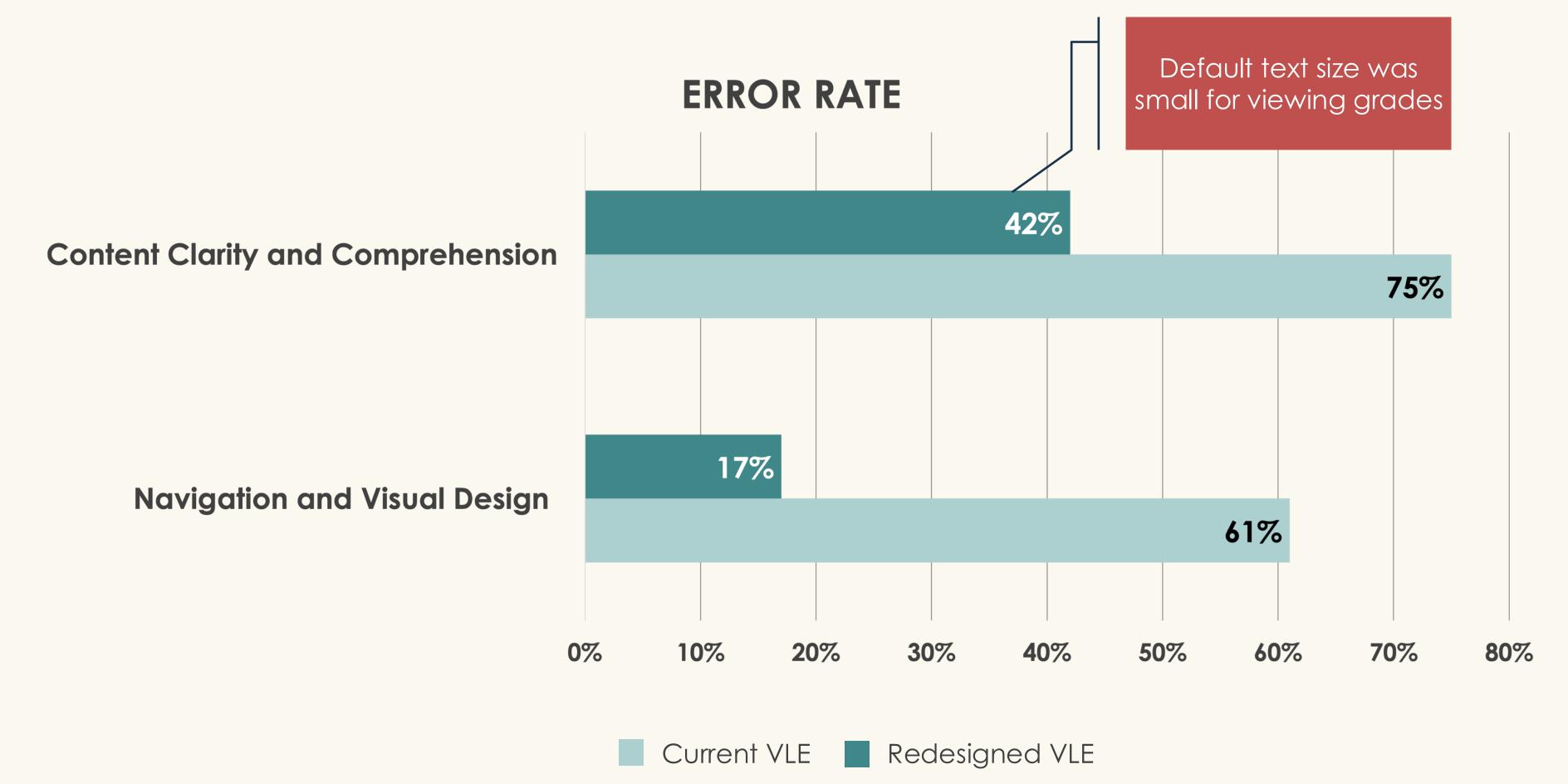


Teaching Schedule:

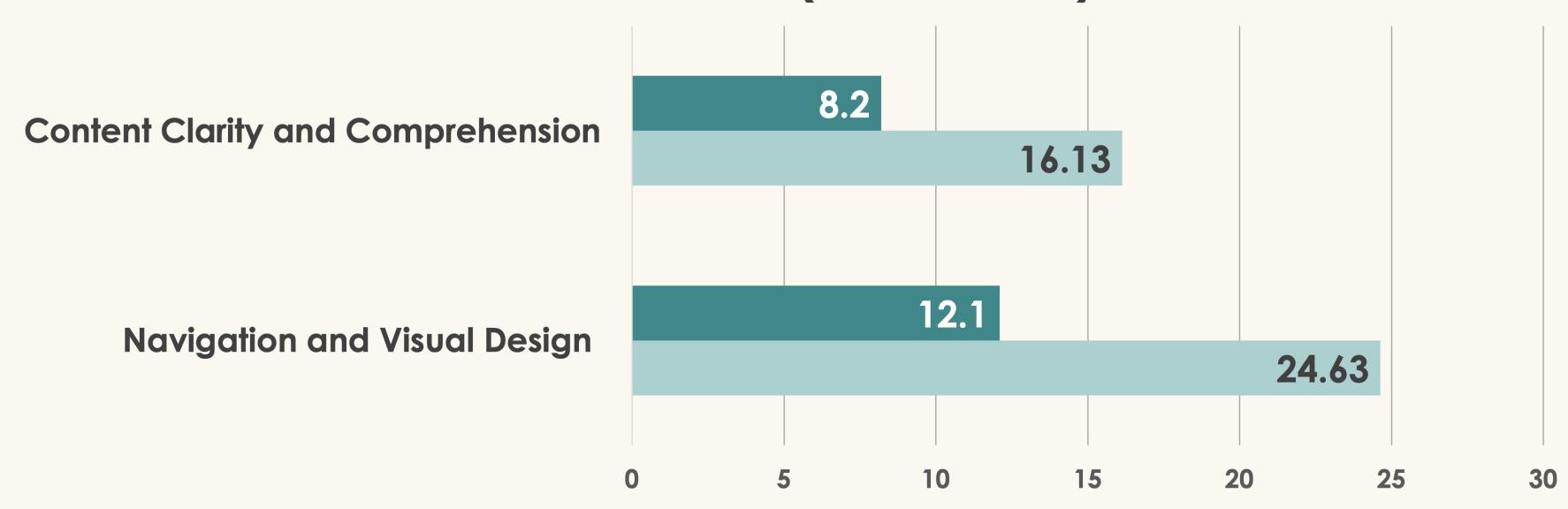
- Lecture: 2-4 pm Tuesday
- Seminar Lab Group 1: Tuesday 5-7 PHS 314
- Seminar Lab Group 2: Wednesday 5-7 pm PHS 314





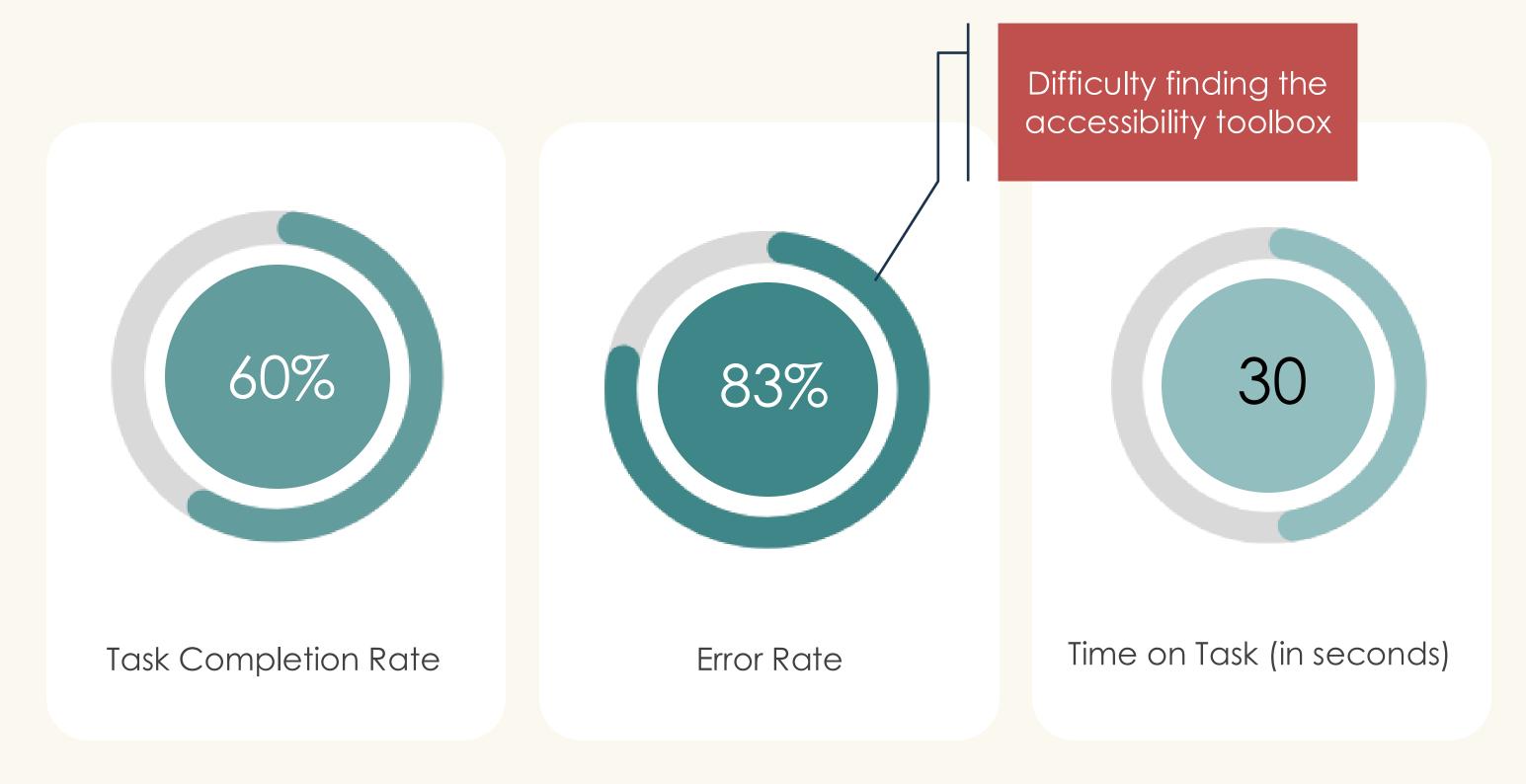


TIME ON TASK (IN SECONDS)



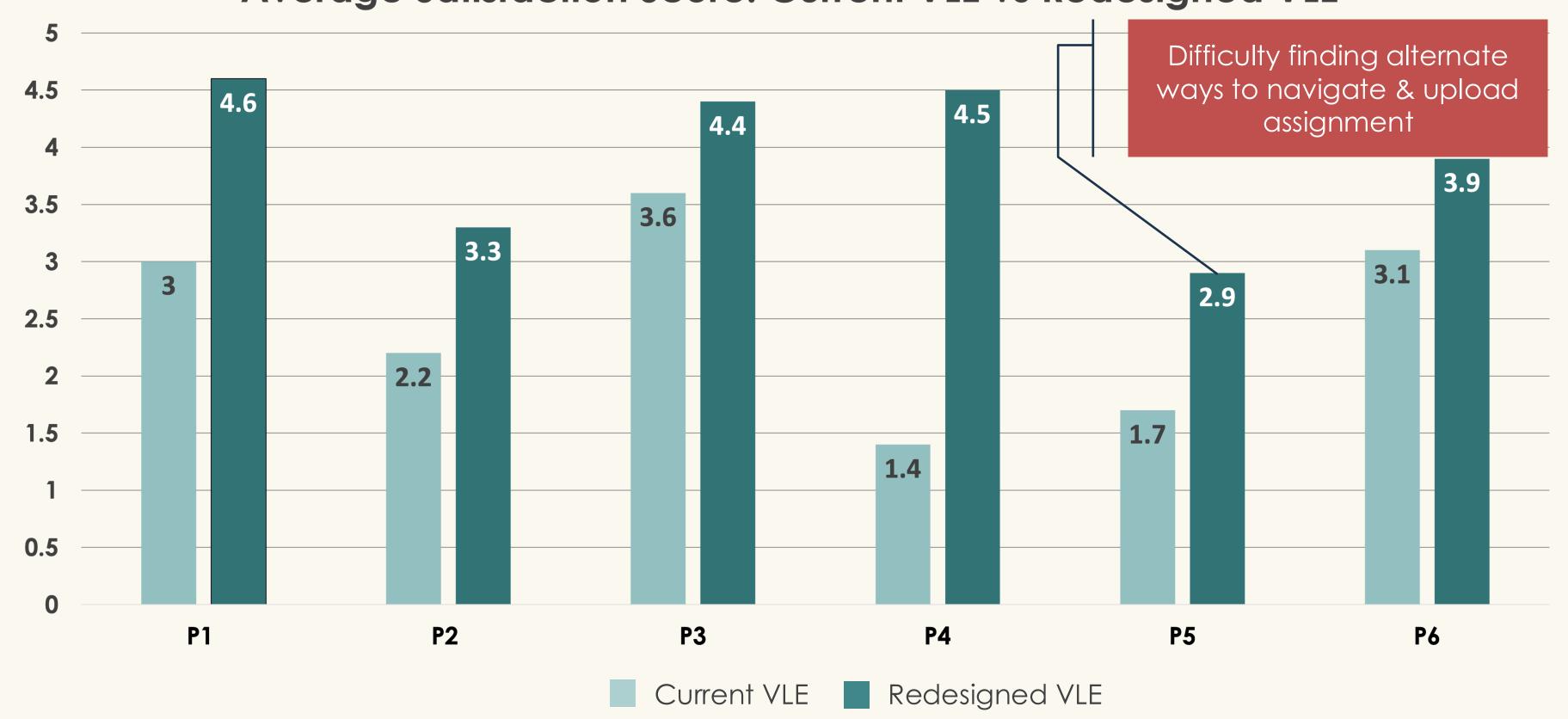
Current VLE Redesigned VLE

Customization (Accessibility Toolbox) Rating for the Redesigned VLE



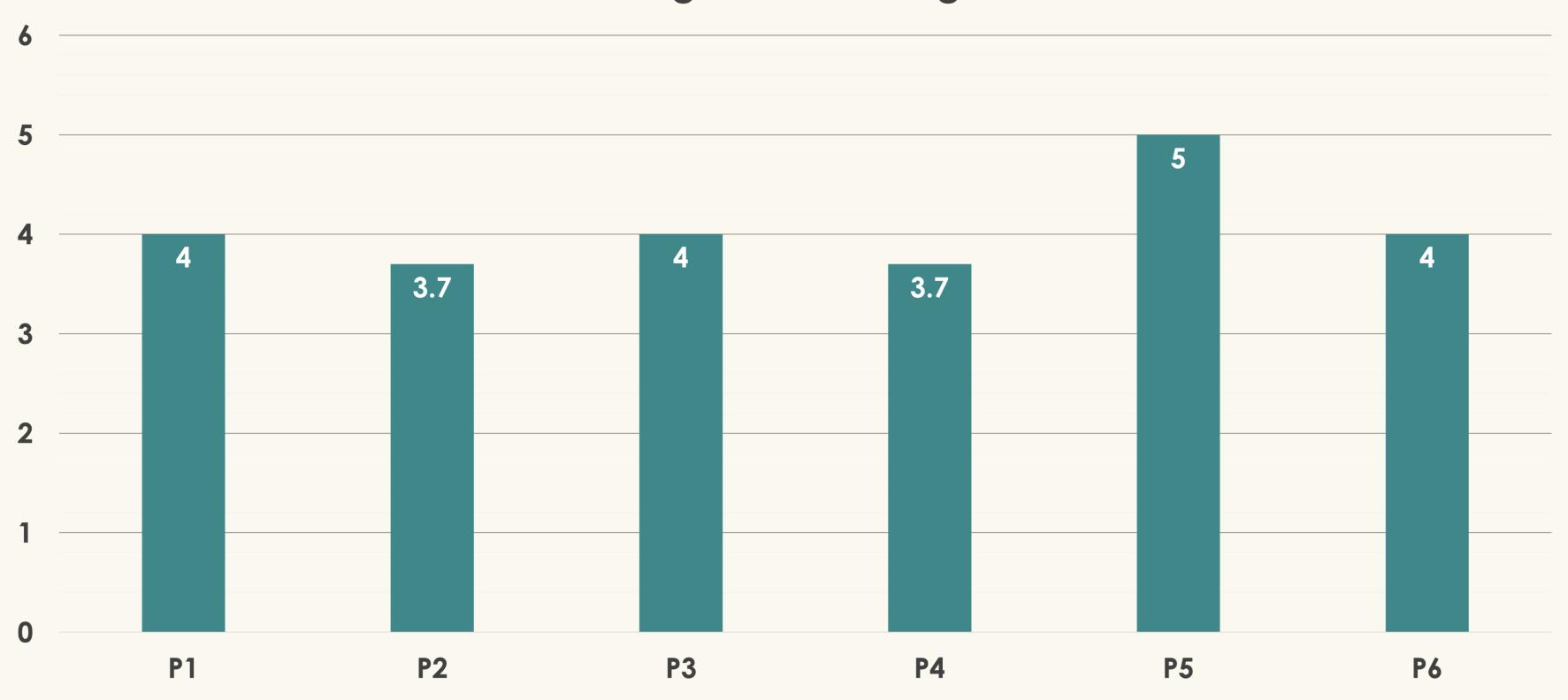
RESULT: POST-TASK SURVEY

Average Satisfaction Score: Current VLE vs Redesigned VLE

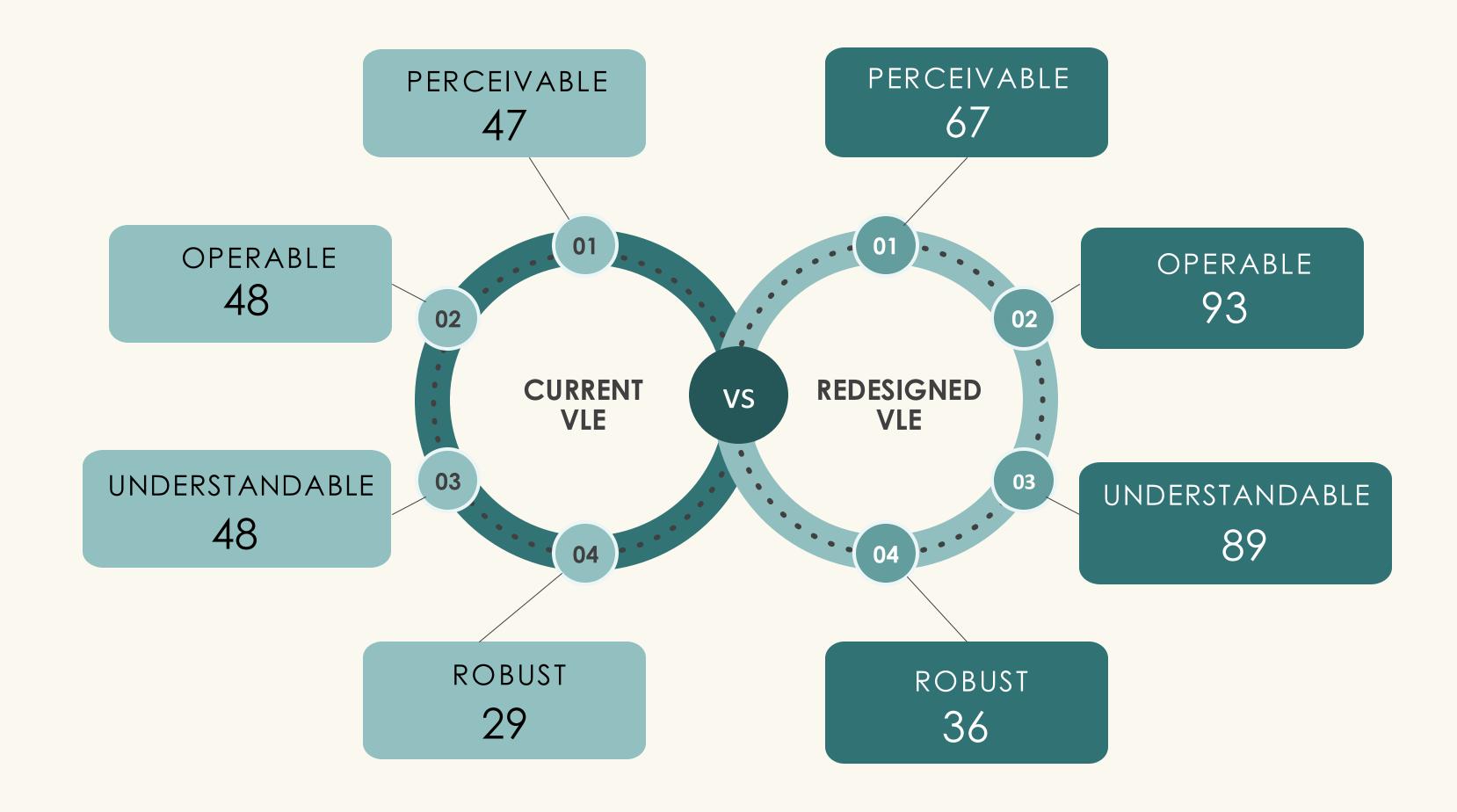


RESULT: SEMI-STRUCTURED INTERVIEW

Overall Rating of the Redesigned VLE



RESULT: WCAG COMPLIANCE SURVEY



RESULT: EXPERT REVIEW

DISABILITY EXPERT 4.5

VLE EXPERT 3.0

WHAT IS THE SOLUTION?

Guidelines



Simplify and Streamline Navigation



Minimize Visual Clutter



Strengthen Feedback Elements

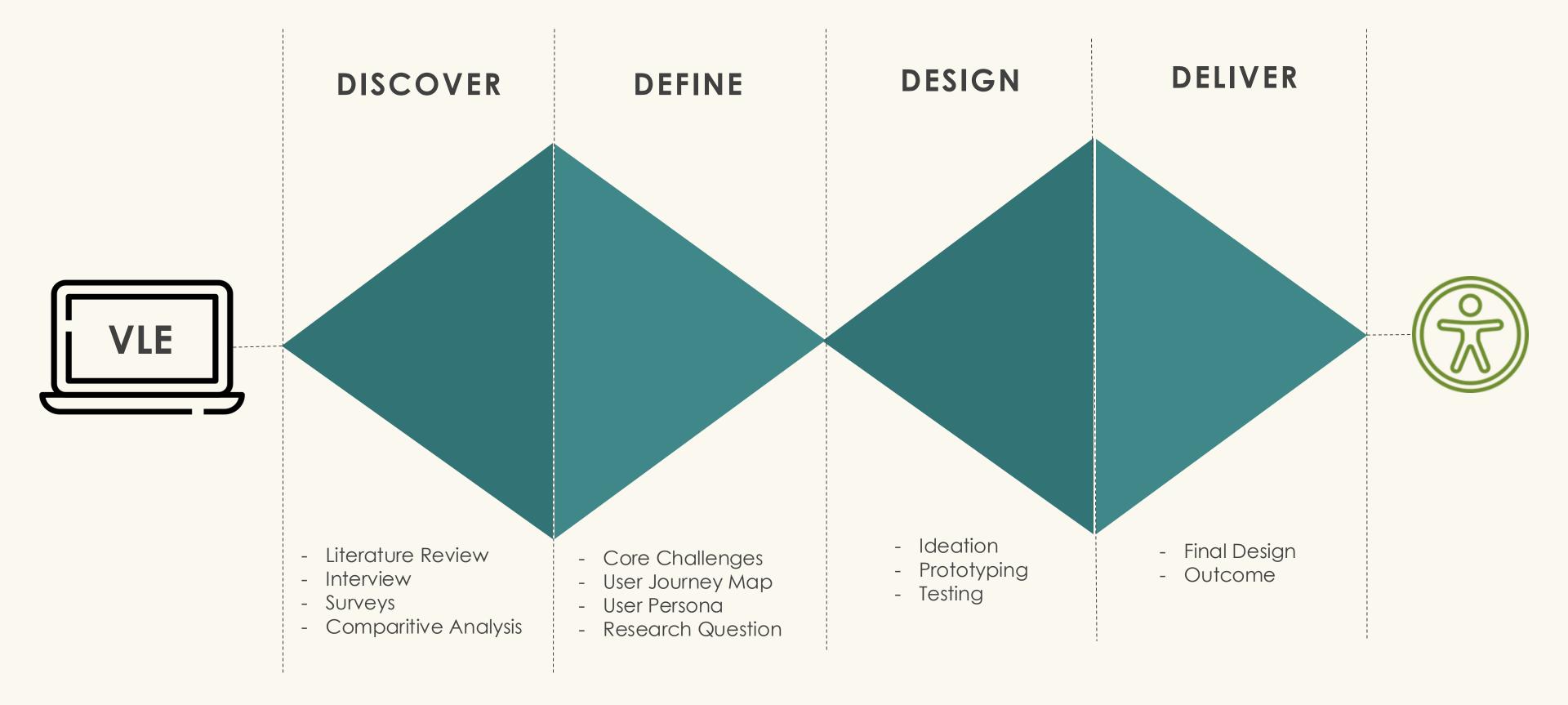


Balance Customization Options



Improve Content Presentation

IT'S ACCESSIBLE!



FUTURE WORK

- Inbuilt Al-driven tools that generates concise summary of lecture notes for the students.
- Personalised learning by adjusting content difficulty and format based on individual student's needs.



