



Empowering Inclusivity:

A progress report on Accessibility Enhancements

19th October 2023

Agenda

1. Inclusivity for Inspera
2. Inclusivity journey
3. Recent accessibility update with examples
4. Ongoing and going forward approach

What does Inclusivity means for us

Embracing Diversity

We wholeheartedly welcome and celebrate the differences in people's abilities and needs.

We believe that diverse perspectives enrich our design processes.



Fostering Equality

Everyone, has an equal opportunity to access and use our products and services.

We remove barriers through fair design practices, ensuring inclusivity and ongoing improvement."



Igniting Innovation

We're passionate about finding creative ways to make our products and services accessible to everyone, regardless of their abilities.



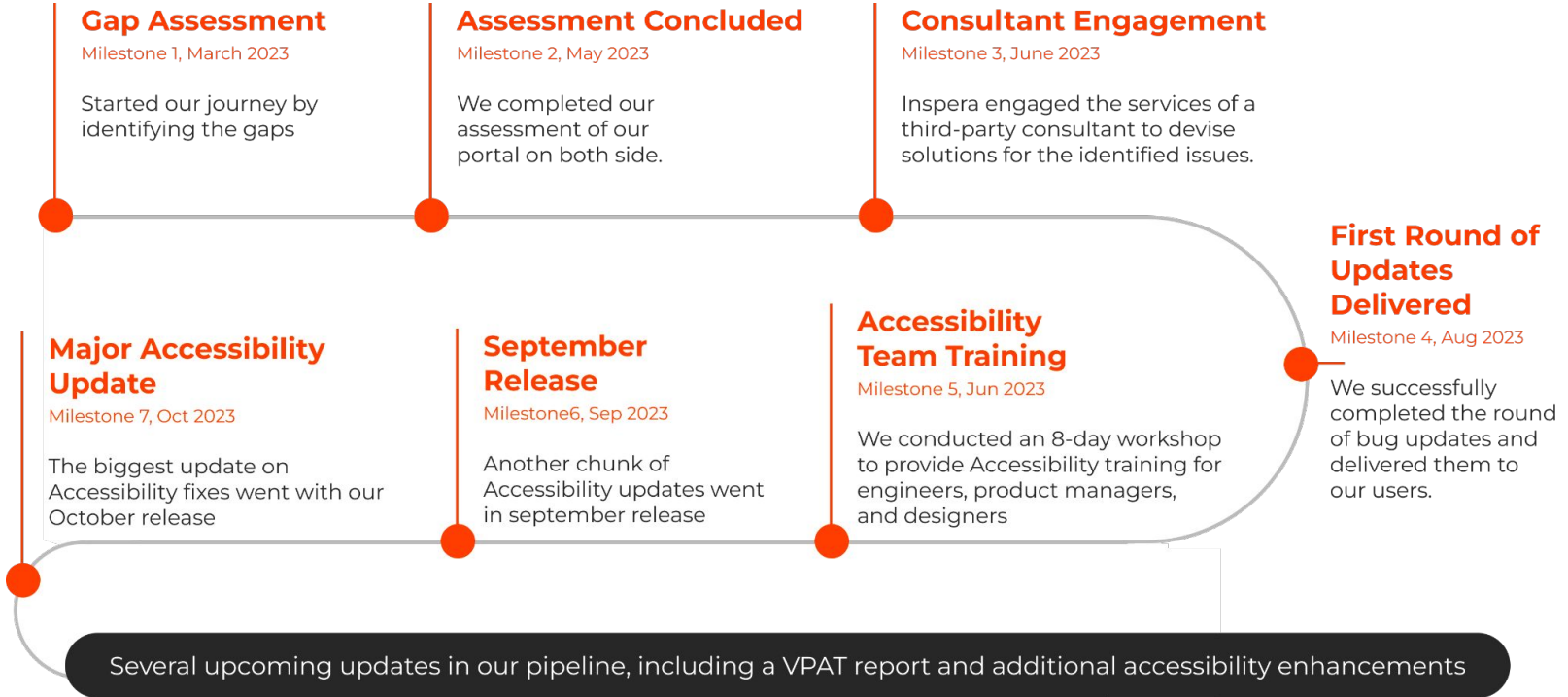
Igniting Innovation



And last but not least



Inclusivity Journey so far



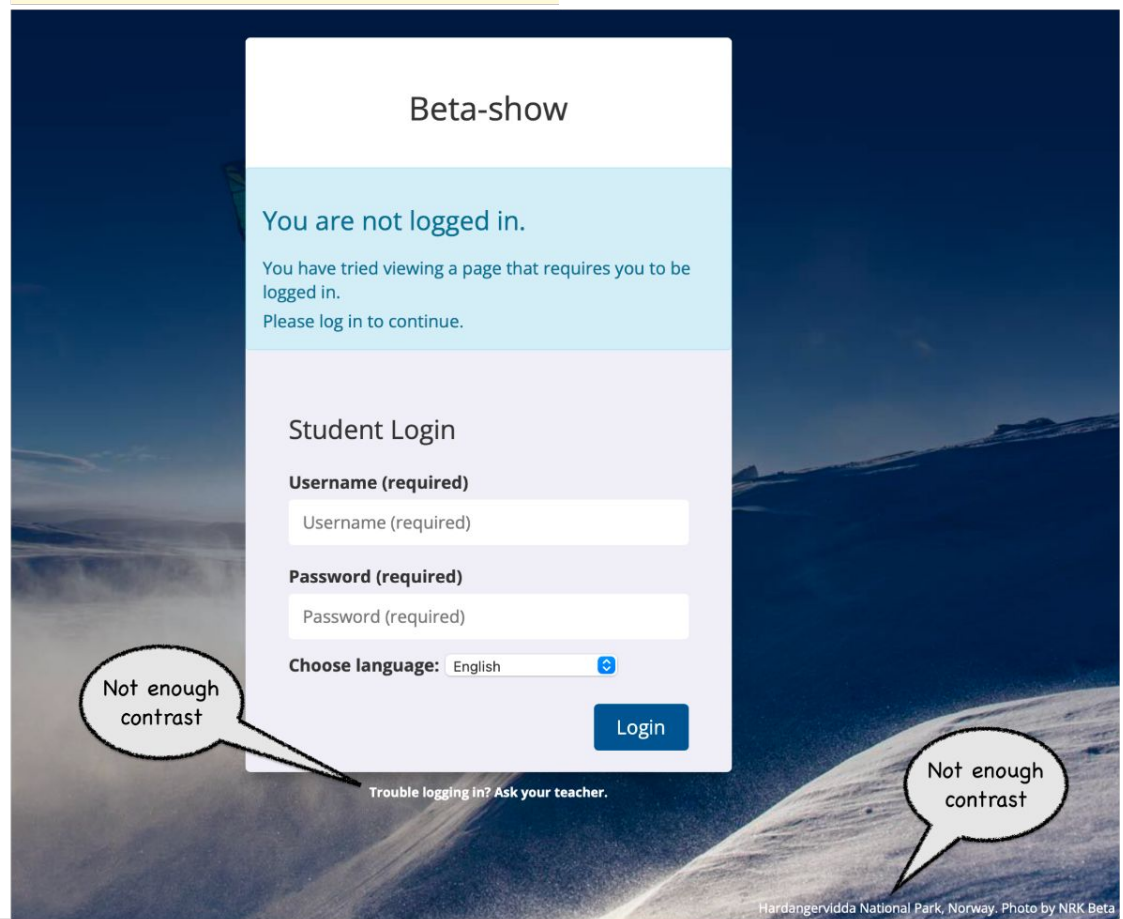
Integrating Accessibility: A Holistic Approach

- Hosted an **8-Day workshop** to curate captivating training sessions.
- Infused these sessions into our new member **onboarding process**.
- Organize **monthly sessions** with industry experts for accessibility guidance.



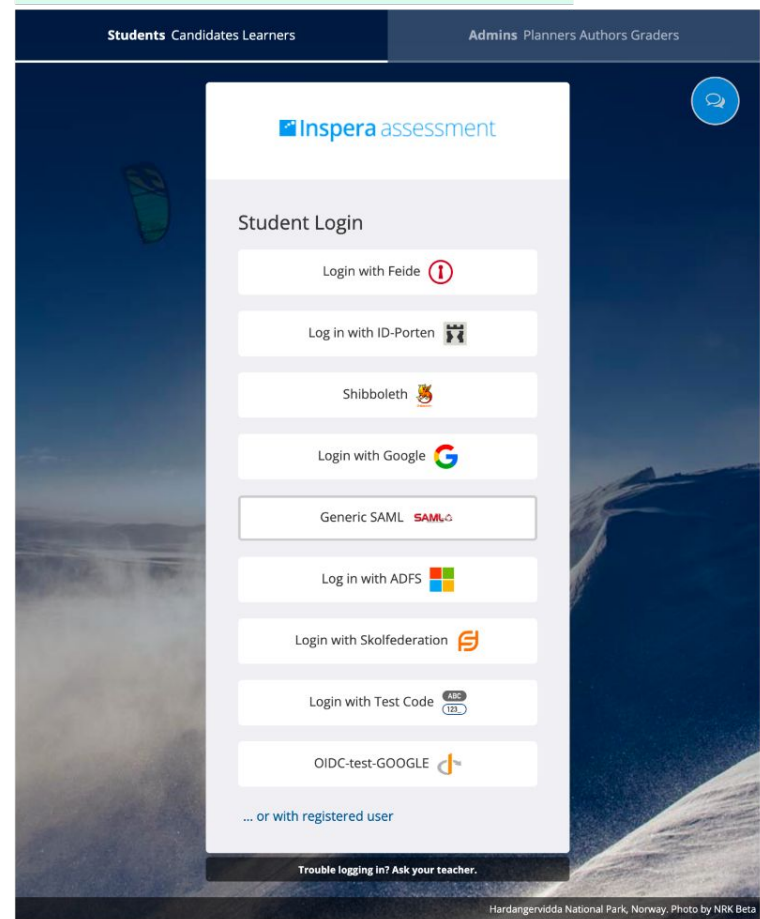
Example of few updates on Login screen

OLD IMPLEMENTATION



Current ratio - 2:47:1 - 15:34:1 | AAA ❌ | AA ❌

NEW IMPLEMENTATION



Current ratio - 11:03:1 | AAA ✅ | AA ✅

Beta-show **H2**You are not logged in. **H3**

You have tried viewing a page that requires you to be logged in.

Please log in to continue.

Administration Login

Username (required)

Password (required)

Choose language:
[Forgot your password?](#)

Trouble logging in? Contact a User Administrator

[Students](#) [Candidates](#) [Learners](#)
[Admins](#) [Planners](#) [Authors](#) [Graders](#)
H1 Assessment Path Stage TestingAdministration Login **H2**

[... or with registered user](#)

Trouble logging in? Contact a User Administrator

Beta-show

You are not logged in.

You have tried viewing a page that requires you to be logged in.
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Administration Login

Username (required)

Password (required)

Choose language:

[Forgot your password?](#)

[Trouble logging in? Contact a User Administrator](#)

Banner

Assessment Path Stage Testing

Main

Administration Login

Login with Feide 

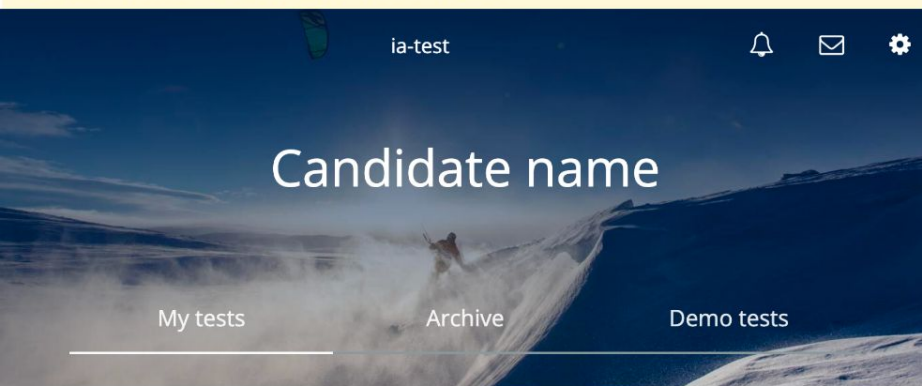
Login with Google 

[... or with registered user](#)

[Trouble logging in? Contact a User Administrator](#)

Example of few updates on Candidate Dashboard

OLD IMPLEMENTATION



No tests

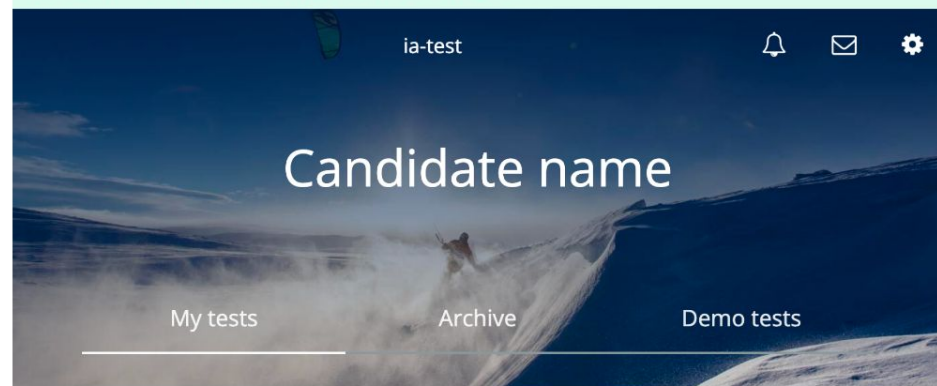
Do you have a Test Code?

Register



Only Tab key working

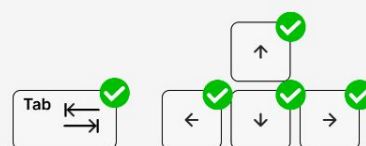
NEW IMPLEMENTATION



No tests

Do you have a Test Code?

Register



Tab & arrow key working

OLD IMPLEMENTATION

Beta-show **H4**

0002

My tests Archive Demo tests

February 2023 **H2**

Individual Opened 5 months ago

Student Experience **H3**

February 22, 2023 3:30 PM → December 31, 2023 5:30 PM

i You have not submitted

[Click here to get ready](#)

|| app.clipchamp.com is sharing your screen and audio. [Stop sharing](#) [Hide](#)

NEW IMPLEMENTATION

ia-test **H1**

92456145 **H2**

My tests Archive Demo tests

February 2023 **H3**

Individual Closed 18 days ago

AS - Test 4 **H4**

July 14, 2023 8:00 AM → July 14, 2023 7:08 PM

📄 You have submitted. You can no longer edit your submission.

[See more details](#)


|| app.clipchamp.com is sharing your screen and audio. [Stop sharing](#) [Hide](#)


Example of few updates on Admin side of Inspera


Admin side: Updating Notification contrast ratios

CURRENT IMPLEMENTATION

 **Info** indicates a neutral informative change or action. ×


 **Success** indicates a successful or positive action. ×


 **Warning** indicates a warning that might need attention. ×


 **Danger** indicates a dangerous or potentially negative action. ×

NEW IMPLEMENTATION

 **Info** indicates a neutral informative change or action. ×

 **Success** indicates a successful or positive action. ×

 **Warning** indicates a warning that might need attention. ×

 **Danger** indicates a dangerous or potentially negative action. ×

CONTRAST RATIO

8.59:1

8.74:1

8.12:1

7.22:1

All above meets AAA Level of contrast ratios

Improved heading structures

add

<h2>Views</h2>

Questions already h1

already h3

already h3

MY VIEWS	Title	Type	Created by	Last edited	Edited by	Labels	Created	Status
CE question	New Question	Multiple Choice	Planner One	05/24/2023 11:18 AM	Planner One		05/24/2023 11:18 AM	Draft
CE question	New Form	Form	Planner One	04/26/2023 9:27 AM	Planner One		04/26/2023 9:27 AM	Draft
CE question	New document	Document	Planner One	04/26/2023 9:26 AM	Planner One		04/26/2023 9:26 AM	Draft
Might have some questions	New Question	Oral	Planner One	04/26/2023 9:25 AM	Planner One		04/26/2023 9:25 AM	Draft
Shared with CE	New Question	Audio record	Planner One	04/26/2023 9:25 AM	Planner One		04/26/2023 9:25 AM	Draft
	New Question	Math Working	Planner One	04/26/2023 9:24 AM	Planner One		04/26/2023 9:24 AM	Draft
	New Question	Programming	Planner One	04/26/2023 9:23 AM	Planner One		04/26/2023 9:23 AM	Draft
	New Question	Upload Assignment	Planner One	04/26/2023 9:23 AM	Planner One		04/26/2023 9:23 AM	Draft
	New Question	Text Area	Planner One	04/26/2023 9:22 AM	Planner One		04/26/2023 9:22 AM	Draft
	New Question	Numerical Simulation	Planner One	04/26/2023 8:43 AM	Planner One		04/26/2023 8:43 AM	Draft
	New Question	Graphic Text Entry	Planner One	04/26/2023 8:35 AM	Planner One		04/26/2023 8:35 AM	Draft
	New Question	Inline Gap Match	Planner One	04/26/2023 8:32 AM	Planner One		04/26/2023 8:32 AM	Draft
	New Question	Hotspot	Planner One	04/26/2023 8:23 AM	Planner One		04/26/2023 8:23 AM	Draft
	New Question	Drag and drop	Planner One	04/26/2023 8:20 AM	Planner One		04/26/2023 8:20 AM	Draft

1 - 14 of 75

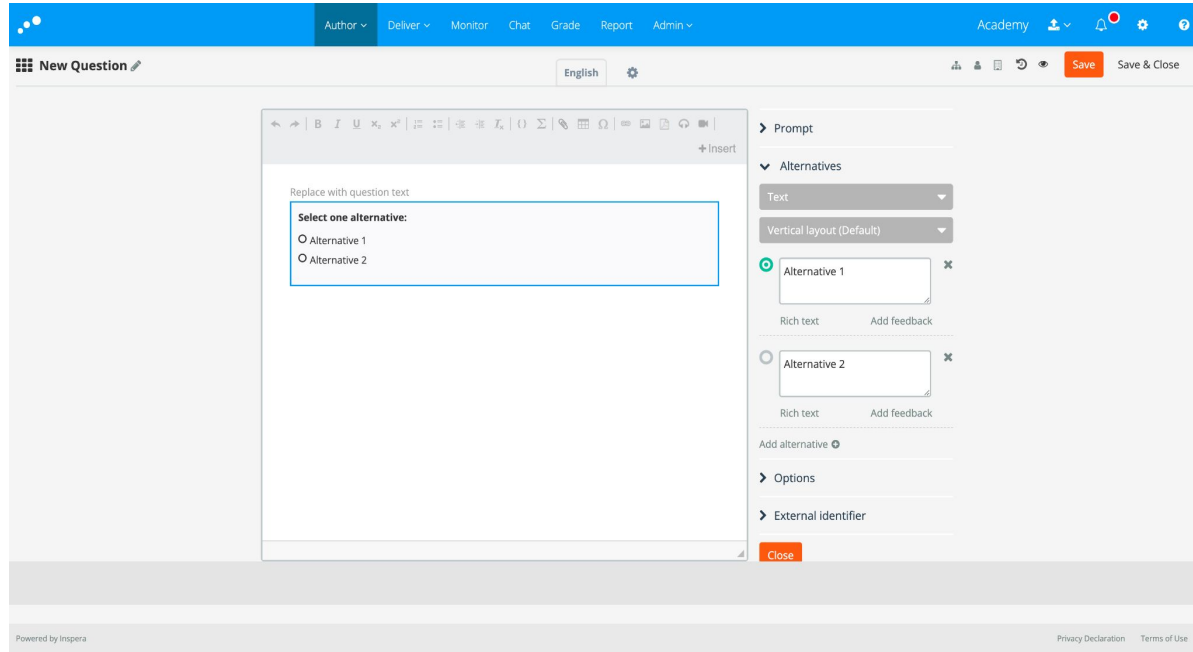
Hits per page: Auto

Trashed Questions

Screen Readers software, commonly used by individuals with visual impairments, relies heavily on heading tags (e.g., H1, H2, H3, etc.) to navigate

Cognitive Benefits: Heading structures can benefit users with cognitive disabilities by providing visual cues that help users understand the content's.

Made UI elements interactive



Screen Readers With this users with visual impairments can understand and use buttons, links, and forms.

Keyboard Accessibility: ensure that users can interact with a website or application effectively. This includes providing keyboard shortcuts & proper focus management.

Assistive Technology: voice recognition software, and switch devices rely on interactive elements to facilitate user interaction, and their effectiveness depends on well-implemented interactivity.

Context

Author ▾ Deliver ▾ Monitor Grade Report

75 ▾ Create New

Search **Needs Context** Created by me Edited today Shared with me Filters 0

Title	Type	Created by	Last edited	Edited by	Labels	Created	Status
<input type="checkbox"/> New Question	Multiple Choice	Planner One	05/24/2023 11:18 AM	Planner One		05/24/2023 11:18 AM	Draft ▾
<input type="checkbox"/> New Form	Form	Planner One	04/26/2023 9:27 AM	Planner One		04/26/2023 9:27 AM	Draft ▾
<input type="checkbox"/> New document	Document	Planner One	04/26/2023 9:26 AM	Planner One		04/26/2023 9:26 AM	Draft ▾
<input type="checkbox"/> New Question	Oral	Planner One	04/26/2023 9:25 AM	Planner One		04/26/2023 9:25 AM	Draft ▾
<input type="checkbox"/> New Question	Audio record	Planner One	04/26/2023 9:25 AM	Planner One		04/26/2023 9:25 AM	Draft ▾
<input type="checkbox"/> New Question	Math Working	Planner One	04/26/2023 9:24 AM	Planner One		04/26/2023 9:24 AM	Draft ▾

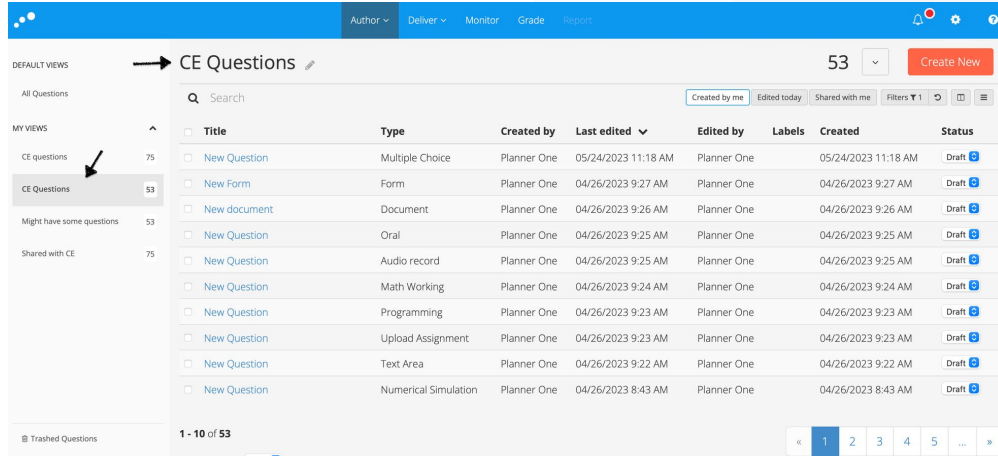
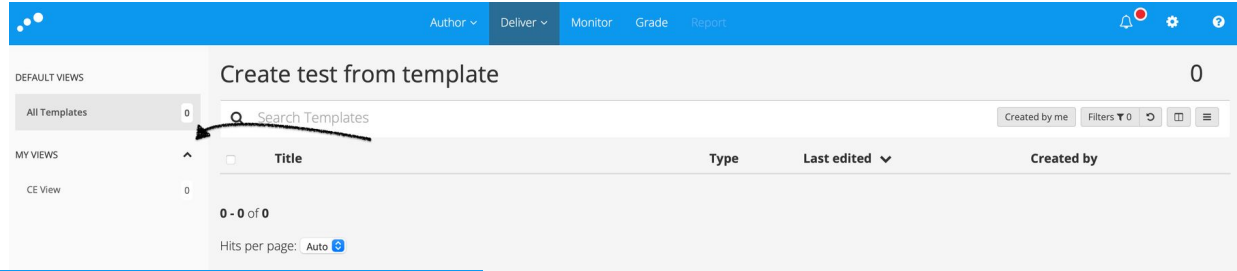
DEFAULT VIEWS

- All Questions 75

MY VIEWS

- CE questions 75
- CE Questions 53
- Might have some questions 53
- Shared with CE 75

ARIA Labels



ARIA (Accessible Rich Internet Applications) labels are like labels for elements on a webpage that help people who use special tools, like screen readers, understand what's on the page.

Pictures and Icons: They provide a description for these non-text items.

Better Descriptions: They make it easier for special tools to describe elements like buttons and links.

Complex Stuff: When websites have fancy things like custom buttons or interactive elements, ARIA labels help explain how they work to people who use special tools.

Page landmarks

The screenshot shows a web application interface for managing questions. The top navigation bar includes tabs for Author, Deliver, Monitor, and Grade, with a search bar containing the text "role='navigation'". The main content area is titled "Questions" and displays a table of question entries. The table has columns for Title, Type, Created by, Last edited, Edited by, Labels, Created, and Status. The first row is highlighted, and the table is paginated to show 1-14 of 75 items. A pagination control at the bottom of the table shows the current page (1) and navigation options. The left sidebar contains a list of views, with the "All Questions" view selected. The interface is annotated with several landmarks: "aria-label='view'" and "role='navigation'" on the sidebar, "role='main'" on the table header, and "role='region'" and "aria-label='pagination'" on the pagination control.

Title	Type	Created by	Last edited	Edited by	Labels	Created	Status
New Question	Multiple Choice	Planner One	05/24/2023 11:18 AM	Planner One		05/24/2023 11:18 AM	Draft
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New Question	Programming	Planner One	04/26/2023 9:23 AM	Planner One		04/26/2023 9:23 AM	Draft
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New Question	Hotspot	Planner One	04/26/2023 8:23 AM	Planner One		04/26/2023 8:23 AM	Draft
New Question	Drag and drop	Planner One	04/26/2023 8:20 AM	Planner One		04/26/2023 8:20 AM	Draft

Landmarks are like road signs on a webpage. They show you different areas like the header, menu, main content, and footer.

And many more..

You can find specific details in our August, September and October releases

Ongoing work

So far we saw what we are doing to upgrade our current experience but going forward, our designs will be inclusive, as we are taking initiatives to make Accessibility specs as part of regular design specs and they get implemented at same time

New candidate Dashboard

University of Inpera

Language Log out

Student
Welcome, Alf Prøysen

Upcoming assessments Previous assessments

INDIVIDUAL About to close

Theme: Science Course Structure

<Test summary> Social Science is an important subject which needs a lot of practice. Learning history might be a tough task for a few students as there are numerous dates and events explained from the past. Mugging up all the important concepts at a time will not help students in any way.

[View more details](#)

Components

Unit 1: Unit 1: Chemical Substances - Nature and ... 7/10Marks >

Unit 2: Acids, bases and salts A <

Unit 3: Control and co-ordination in animals and plants Submitted on 2 March 2023 >

University of Inpera

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Components

Unit 1: Unit 1: Chemical Substances - Nature and ... 7/10Marks >

Unit 2: Acids, bases and salts A (Accessibility enabled) (Multiple attempt) Open >

Unit 3: Control and co-ordination in animals and plants Submitted on 2 March 2023 >

Unit 4: Magnetic effects of current Opening soon >

Unit 5: Chemical Substances - Nature and Behaviour... Opening soon >

<header role="banner">

University of Inpera

Language Log out

Student
Welcome, Alf Prøysen

<nav role="navigation">

Upcoming assessments Previous assessments

Notification Message Chat

<main role="main">

INDIVIDUAL About to close

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[View more details](#)

Components

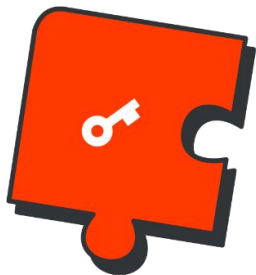
Unit 1: Unit 1: Chemical Substances - Nature and ... 7/10Marks >

Unit 2: Acids, bases and salts A (Accessibility enabled) (Multiple attempt) Open >

Unit 3: Control and co-ordination in animals and plants Submitted on 2 March 2023 >



Our UX Design process



UNDERSTAND

User Personas

Competitive analysis

User Interview

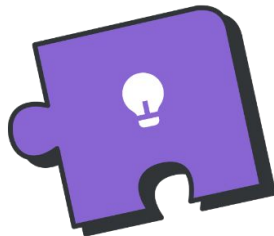
Journey map

Stakeholder interview

Task analysis

Empathy map

Market research



IDEATE

Wireframe

Paper prototype

Brainstorming

User flow

Interactive prototype

Sketching

References

Moodboard



TEST

Survey

Usability test

Dairy study

Card sorting

Heuristic evaluation

Analytics

Field study

A/B test



IMPLEMENT

UX writing

Accessibility

Navigation

Onboarding

Design system

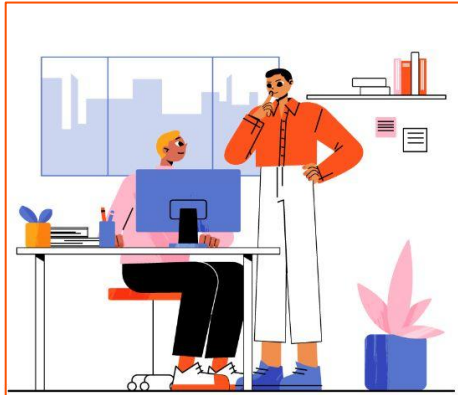
Forms

UI Design

Usability

That is not all...

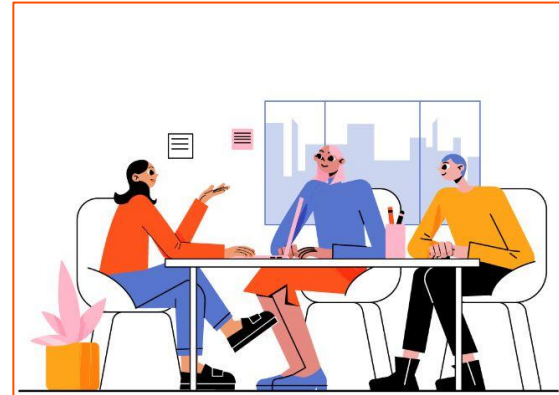
How do we keep improving



Accessibility inspection every year



Fixing our issues



Accessibility review with real users

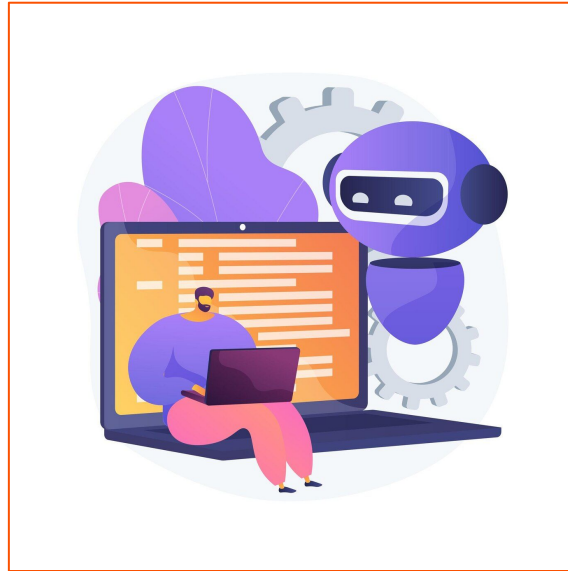
A glimpse of Future ..

We have plans to work with specific disability needs and understand its requirements to enhance the overall experience on Inspera.

Still initial research phase



Dyslexia friendly



Using AI to create more accessible content

Multi lingual assessments

Alt text suggestions for images

Accessibility is a human right!



Thank you!



Ashlesha
Design lead

 www.inspera.com

 ashlesha.yadav@inspera.com

 [@Inspira](https://twitter.com/Inspira)