

Agenda: Thursday, 1st June



- 1:30 - 2:30 : Tutors Challenge 1 Review



- 2:30 - 2:45 : Form your Team of 4



- 2:45 - 3:15 : Brainstorm Team Project



- 3:15 - 3:30 : Rapporteur to outline Team project (3 mins each)



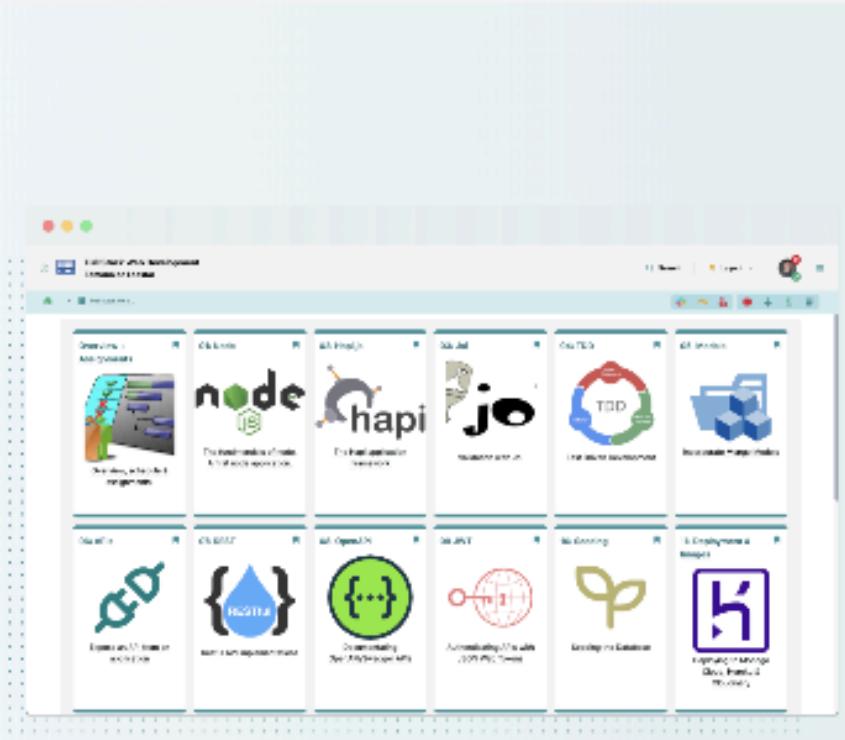
- 3:30 - 4:15: Feedback + Looking forward to Tutors Challenge 2

T Tutors

An Open Learning Web Toolkit

A collection of open source components & services supporting the creation of transformative learning experiences using open web standards.

[View Demo](#) [Documentation](#) [Catalogue](#) [Live](#)



<https://reader.tutors.dev/topic/international-week-2023/topic-03>

Bremen Tutors Showcases
Bremen International Week

Bremen Internat... > Bremen Tutors S...

Search Layout

Bremen Tutors Showcases

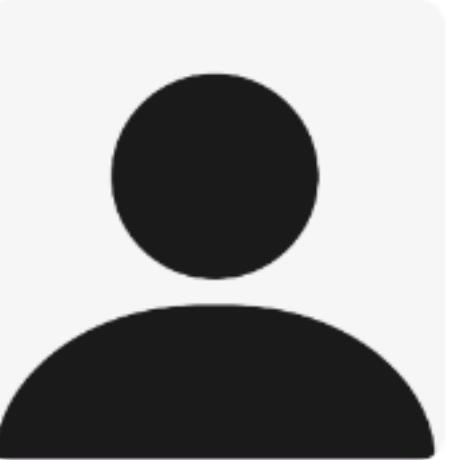
HS
Hochschule Bremen
City University of Bremen

Bremen Tutors Showcases

La Cha 
[Awesome Biohacking Course](#)

Juohina Khaled 
[Just a Copy \(for the moment\)](#)

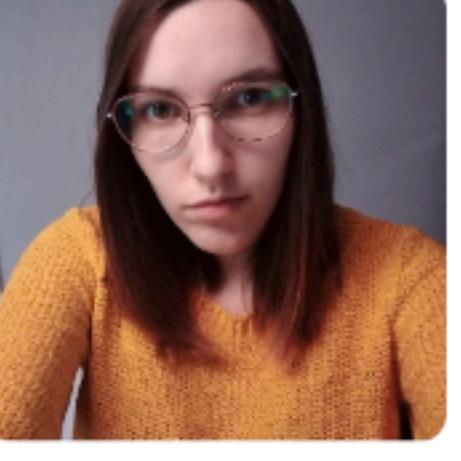
Tim Döge 
[Definately a Good Course](#)

Julia Pohl 
[Hello 1234!](#)

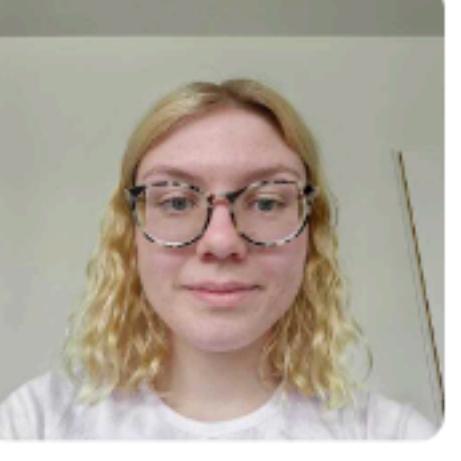
Max Ilinseer 
[It about Fruit!](#)

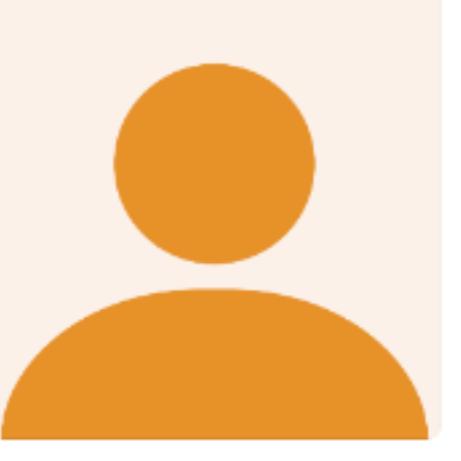
Christopher Tolstich 
[Chris's site](#)

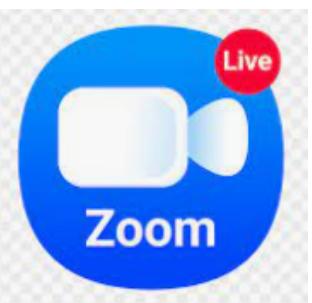
Diyar Aydin 
[Diyars Site](#)

Lisa Theocharidis 
[Lisa's site](#)

Nadine Faiss 
[Nadines Presentation](#)

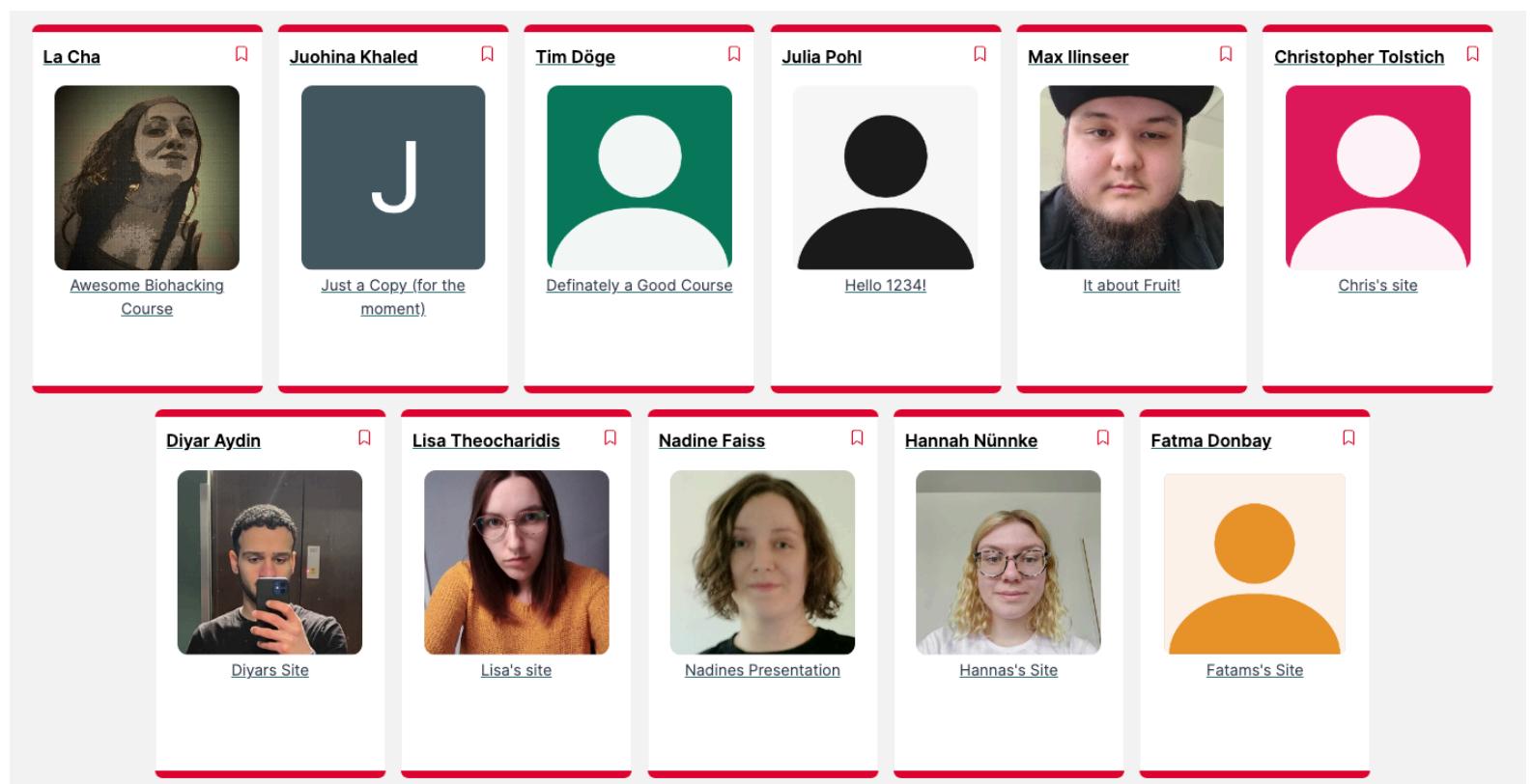
Hannah Nünke 
[Hannas's Site](#)

Fatma Donbay 
[Fatams's Site](#)



- 1:30 - 2:30 : Tutors Challenge 1

- Review current showcase: Change course Titles + images on home page cards



Deployed
since
yesterday!

- Deploy ‘Kitchen Sink’ instead of “tutors Starter” over the same course
- Tour the Kitchen Sink Folder Structure

Kitchen Sink

This has been a quick tour of some aspect of a tutors course.

- <https://reader.tutors.dev/course/reference-course>

This is a more complete course than the example we have been exploring. Inspect each of the topics and explore the variations of

Kitchen
Sink is a
complete
tour of all
tutors
features

- **2:30 - 2:45 : Form your Team of 4**

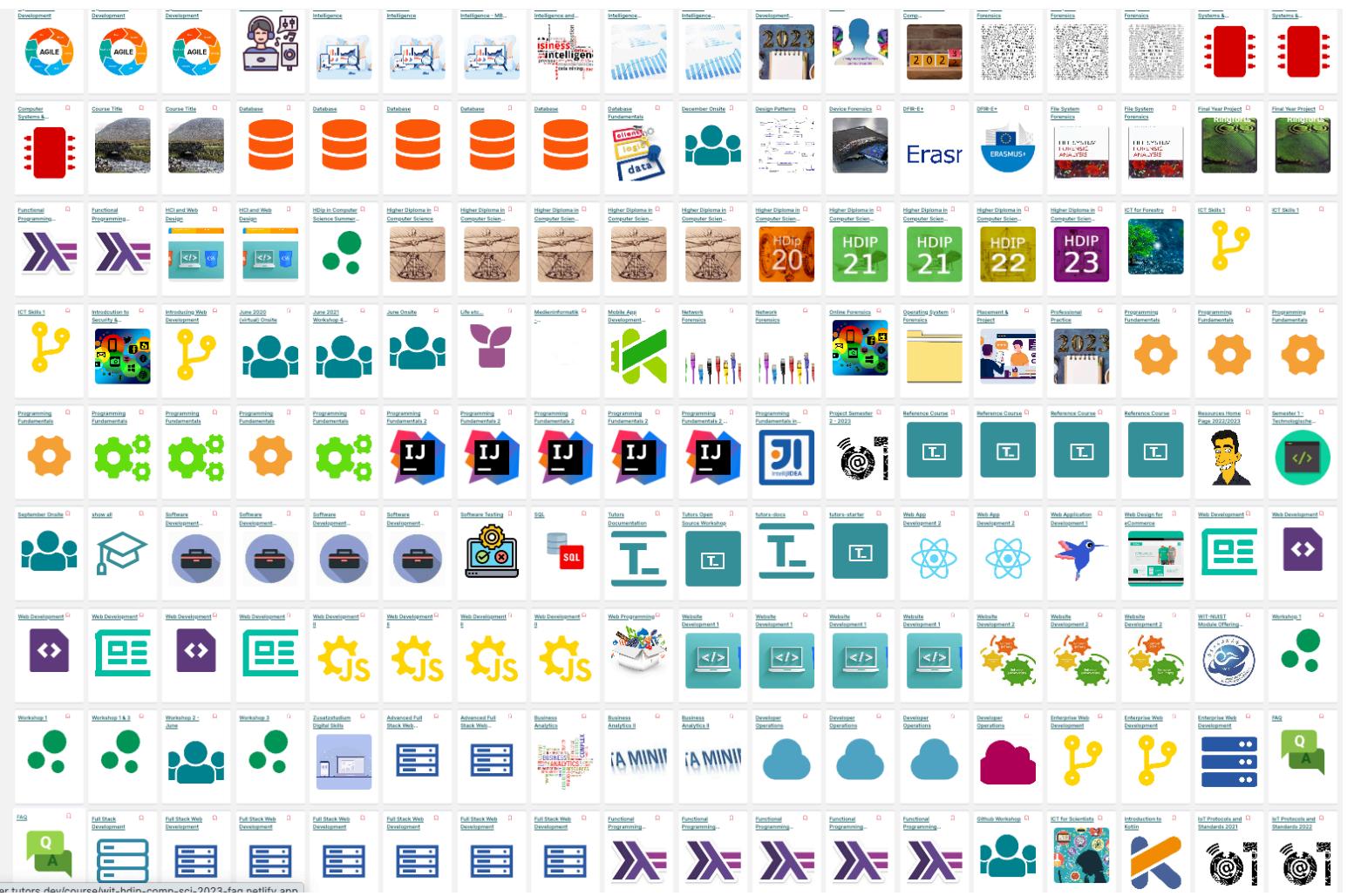
- Use slack to identify team members (DM if necessary)
- Report your team of 4 on Slack #tutors channel
- Select Rapporteur (to report back to group)
- One to the team will be the “publisher” of the finished course
- You can continue to experiment with personal courses



<https://time.tutors.dev/catalogue>

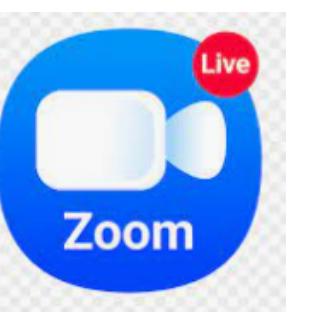
- 2:45 - 3:15 : Brainstorm Team Project

- Explore Tutors Course Catalogue + HDip Programme
- Develop theme for tour group of 4 project
- Perhaps consider each team member taking on a topic individual topic



<https://reader.tutors.dev/course/wit-hdip-comp-sci-2022>

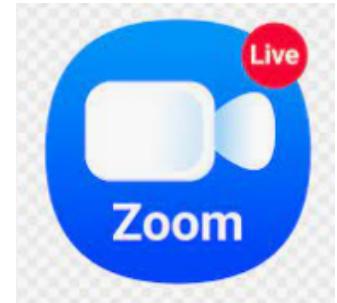
A screenshot of the reader.tutors.dev course page for the Higher Diploma in Computer Science 2022, Department of Computing & Mathematics, WIT. The page is divided into two main sections: Semester 1: January-May 2022 and Semester 2: June-December 2022. Each section contains five cards, each representing a different course or workshop. The cards include icons and brief descriptions of the topics covered. For example, the 'Workshop One' card in Semester 1 includes 'induction', 'structure', 'schedules', and 'handbook'. The 'Web Development I' card in Semester 1 includes 'html', 'css', 'layout', 'web apps', 'web frameworks', and 'deployment'. The 'Semester 1 Schedule' card includes 'timetables', 'semester calendars', 'assessment schedules', and 'timetables'. The 'Semester 2' section follows a similar structure, featuring 'Workshop Two', 'Web Development II', 'Computer Systems & Networks', 'Database', and 'Semester 2 Schedule'.



- **3:15 - 3:30 : Rapporteur to outline Team project**

- Rapporteur to outline theme (2 mins)
- Publish individual courses to prototype layouts/ideas
- To integrate - zip up individual topics and DM to 'Publisher' to deploy to team site





- **3:30 - 4:15: Feedback + Looking forward to Tutors Challenge 2**

- Feedback on group of 4 projects
- Exploring the Theme + Iconography in Tutors

Challenge 2: Theme & Iconography

Tutors Theming

[Exploring the Tutors Theme Subsystem](#)

Skeleton

[The Skeleton.dev Theming Subsystem](#)

Iconify

[The Icon Libraries used by Tutors](#)

Lab-04-Create a Theme

[Generate a new theme](#)

Lab-05-Deploy Tutors Reader

[Publish a new Tutors Reader to the Netlify](#)

- **2:30 - 2:45 : Form your Team of 4**

- Use slack to identify team members (DM if necessary)
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- Select Rapporteur (to report back to group)
- One to the team will be the “publisher” of the finished course
- You can continue to experiment with personal courses

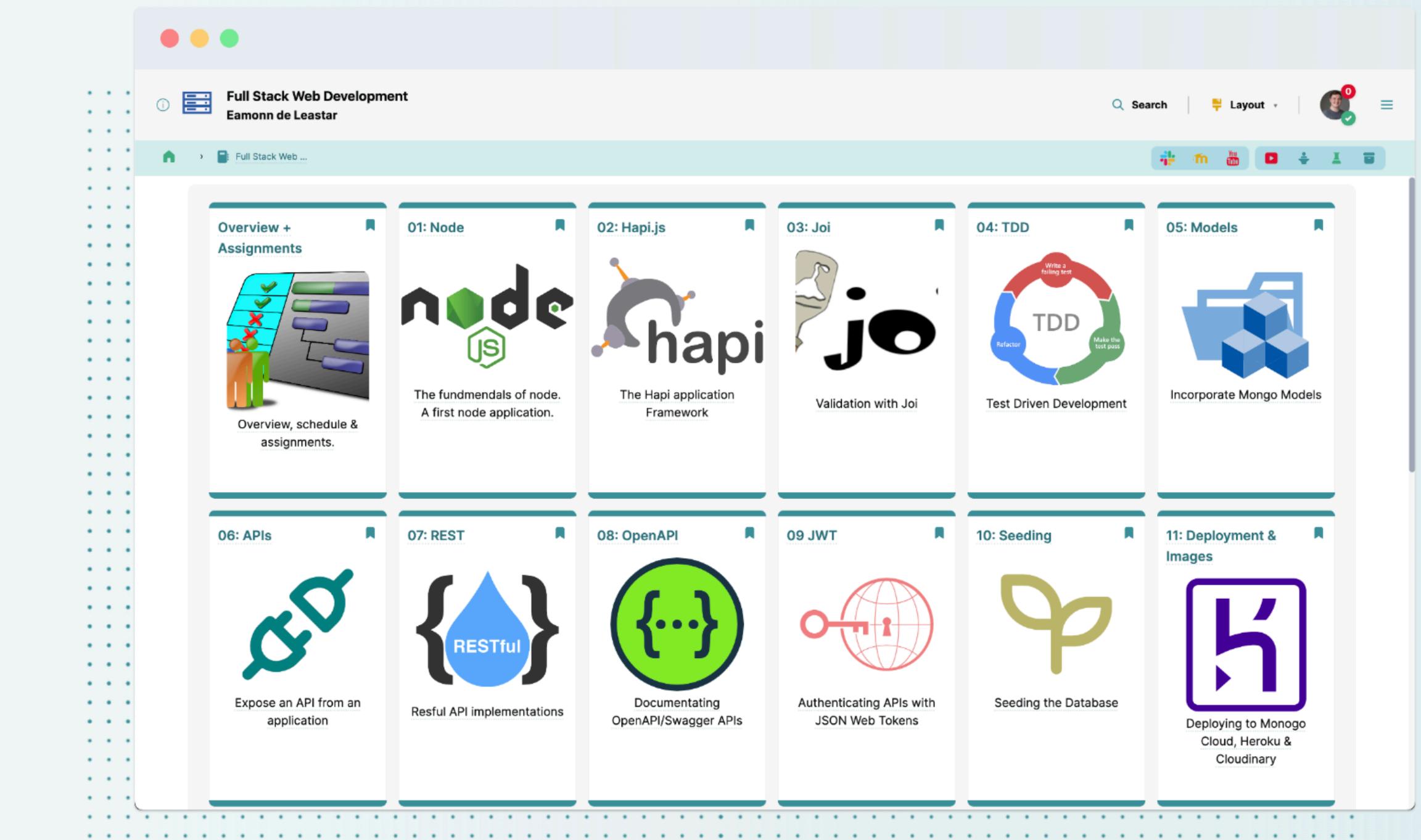
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The Values of the project

The Learner Experience



The **Learner Experience** prioritises web interactions that are **engaging, contextual, linkable, searchable, accessible** and **responsive**. In addition the experience should foster a sense of **community** and **connection** among fellow learners.

The Educator Experience



The **Educator Experience** prioritises the creation of a **guided paths** through a curriculum via the creation of learning materials that are **autonomous, structurally aligned, composable, auditable, extensible, versioned** and **independent**.

The Developer Experience



The **Developer Experience** prioritises the specification and implementation of **robust, well documented, loosely coupled components & services**, integrated into a **coherent toolkit** open to contributions from **diverse skill sets**.



Four Challenges



Challenge 1: Create an course using tutors, showcasing the variety of the learning experience.

Challenge 2: Design and implement a new Theme + Icon Pack for Tutors, extending the UX in interesting ways. Rebuild the Tutors Reader to include these changes.

Challenge 3: Reimagine the Tutors learning experience, revising the existing UX, proposing simple or radical alternative layouts, navigation, learning objects & interaction patterns.

Challenge 4: Map out an implementation of Challenge 3 in the Tutors Open Source Project.

Challenge 1: Create an course using tutors, showcasing the variety of the learning experience.

Lab-17a Charts
Full Stack Web Development

Search Layout User Profile

Programming Fundamentals
Colm Dunphy, Peter Windle, WIT

Assignment Specifications
 This section details the assignments for module

00: Induction
 module structure · delivery approach · java programming language · ...

01: First Contact
 processing · java · drawing shapes · colour · grayscale · RGB · syntax errors · ...

02: Selection & Iteration
 loop body: increment or decrement; } If condition is false Condition If condition is true Loop Body Process Results

03: Methods
 method signature · return types · parameters · mouse event methods · bespoke..

04: Classes
 Class Object

05: Arrays
 Arrays int n[] = new int[4]; n[0] n[1] n[2] n[3] n[1]=36;

06: Game of Pong
 Game of Pong · Ball class · Paddle class · Player class · Tournaments · Statistics · ...

Charts Page

Introduce an additional icon in our navigator:

MainNavigation.svelte

```
...  
<a href="/charts" class="c...  
  <i class="fas fa-charts...  
</a>  
...
```

This is a new page:

routes/charts/+page.svelte

```
<script>  
  import TitleBar from "$...  
  import MainNavigator fro...  
  import Chart from "svel...  
  
  let data = {  
    labels: ["Sun", "Mon...  
  };
```

Charts Page

SQL Aggregate functions
Database

6 of 13

Using Round()

- To round a numeric value to a whole number (or to 2 decimal places for example), use `round`.
- `Round(12.75)` returns 13
- `Round(12.751,2)` returns 12.75
- `Round(12.755,2)` returns 12.76

To use `round` with an aggregate function:

```
select round(avg(price),2) as "Average Book Price"  
from book;
```

05: SQL: Select statement

- Select statement
- Introduction
- SQL Select statement
- SQL Select statement Lab

Aggregate functions

- SQL Aggregate functions
- SQL Aggregate functions Lab

Join clause

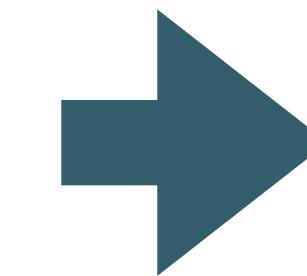
- SQL Join
- SQL Join 1 Lab
- SQL Join 2 Lab

Date function

- SQL Date functions
- SQL Date functions Lab

Challenge 1: Resources

*Kitchen Sink
Example*



Reference Course
A reference course containing all supported learning objects

Current Week
Reading 5

Search Layout

Reference Cour...

Simple

Simple Topic with lectures + a lab

Varied

Variety of learning objects

Media

Videos presented in various contexts

Units

Units which contain variety of learning objects

Side Units

An example of a side unit

Cards with SVG

Learning objects with SVG images

Panel Talk

Panel talk promotes a presentation to topic page

Panel Note

Panel note promotes a note to Topic level

This screenshot shows the Tutors Reference Course interface. At the top, there's a header with the course title, a 'Current Week' section showing 'Reading 5', and navigation links for 'Search' and 'Layout'. Below the header is a toolbar with various icons for file operations like 'New', 'Open', 'Save', etc. The main content area displays eight cards, each representing a different type of learning object or feature:

- Simple:** Shows a computer screen with a large red 'X' over it, labeled "Simple Topic with lectures + a lab".
- Varied:** Shows a person at a desk with multiple windows open, labeled "Variety of learning objects".
- Media:** Shows a laptop displaying a video camera icon, labeled "Videos presented in various contexts".
- Units:** Shows a green circle with an upward arrow, labeled "Units which contain variety of learning objects".
- Side Units:** Shows a red circle with a book icon, labeled "An example of a side unit".
- Cards with SVG:** Shows a yellow chick icon, labeled "Learning objects with SVG images".
- Panel Talk:** Shows a blue dashboard with a pie chart, labeled "Panel talk promotes a presentation to topic page".
- Panel Note:** Shows a yellow clipboard icon, labeled "Panel note promotes a note to Topic level".

<https://github.com/tutors-sdk/tutors-reference-course>

<https://reader.tutors.dev/course/reference-course>

Challenge 1: Resources

Challenge 1: Creating & Publishing a course

The image shows three cards arranged horizontally, each representing a guide for creating and publishing a course. The first card is titled 'Learner Experience' and features an illustration of a person wearing a graduation cap. The second card is titled 'Creating a Course' and features an illustration of a person holding a book. The third card is titled 'Editing a Course' and features an illustration of a person riding a bicycle. Below each card, there is a brief description of the guide's content.

Guide Title	Description
Learner Experience	An overview of the Tutors Learner Experience
Creating a Course	Creating a Tutors Course
Editing a Course	Editing and republishing a course

Overview of
Tutors UX

Overview of
Course
Creation

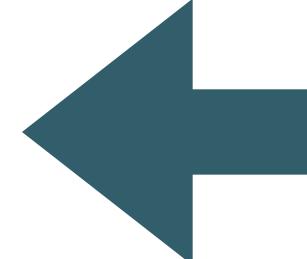
Course
Structure

Tutors Labs

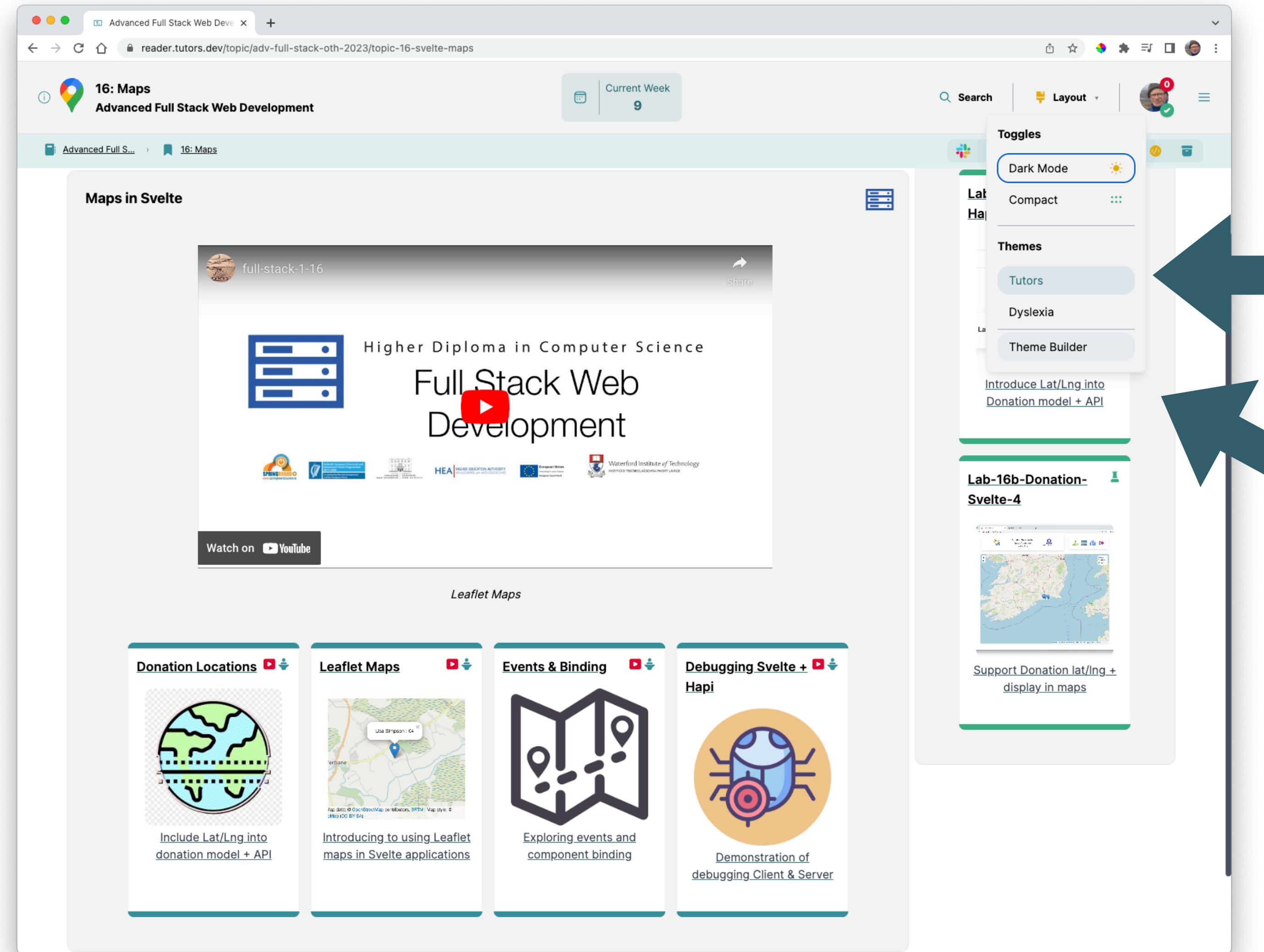
The image shows two cards for 'Tutors Labs'. The top card is titled 'Lab-01-Create' and features a red diamond icon. The bottom card is titled 'Lab-02-Edit' and features a red tree icon. Both cards have descriptions below them.

Lab Title	Description
Lab-01-Create	Create and publish a Tutors course
Lab-02-Edit	Explore and edit the elements of a Tutors course

Guides on
creating +
publishing
a course



Challenge 2: Design and implement a new Theme + Icon Pack for Tutors, extending the UX in interesting ways. Rebuild the Tutors Reader to include these changes.

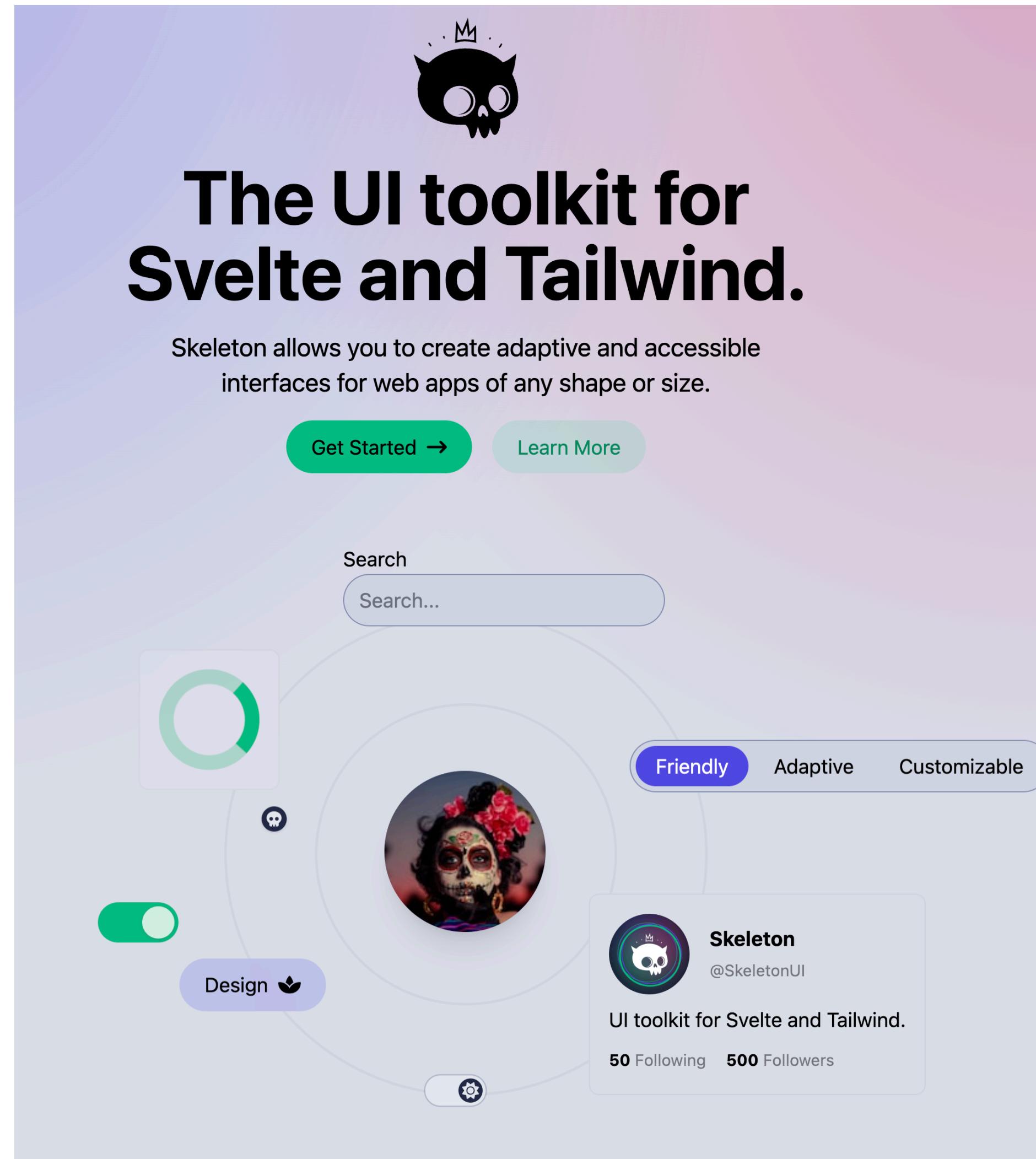
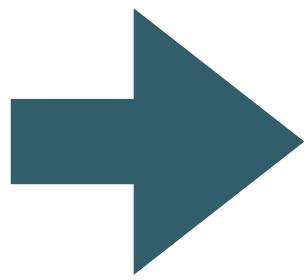


Themes
Selector

Themes
Builder

Challenge 2: Resources

Design System used by Tutors



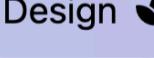
The UI toolkit for Svelte and Tailwind.

Skeleton allows you to create adaptive and accessible interfaces for web apps of any shape or size.

Get Started → Learn More

Search Search...

Friendly Adaptive Customizable

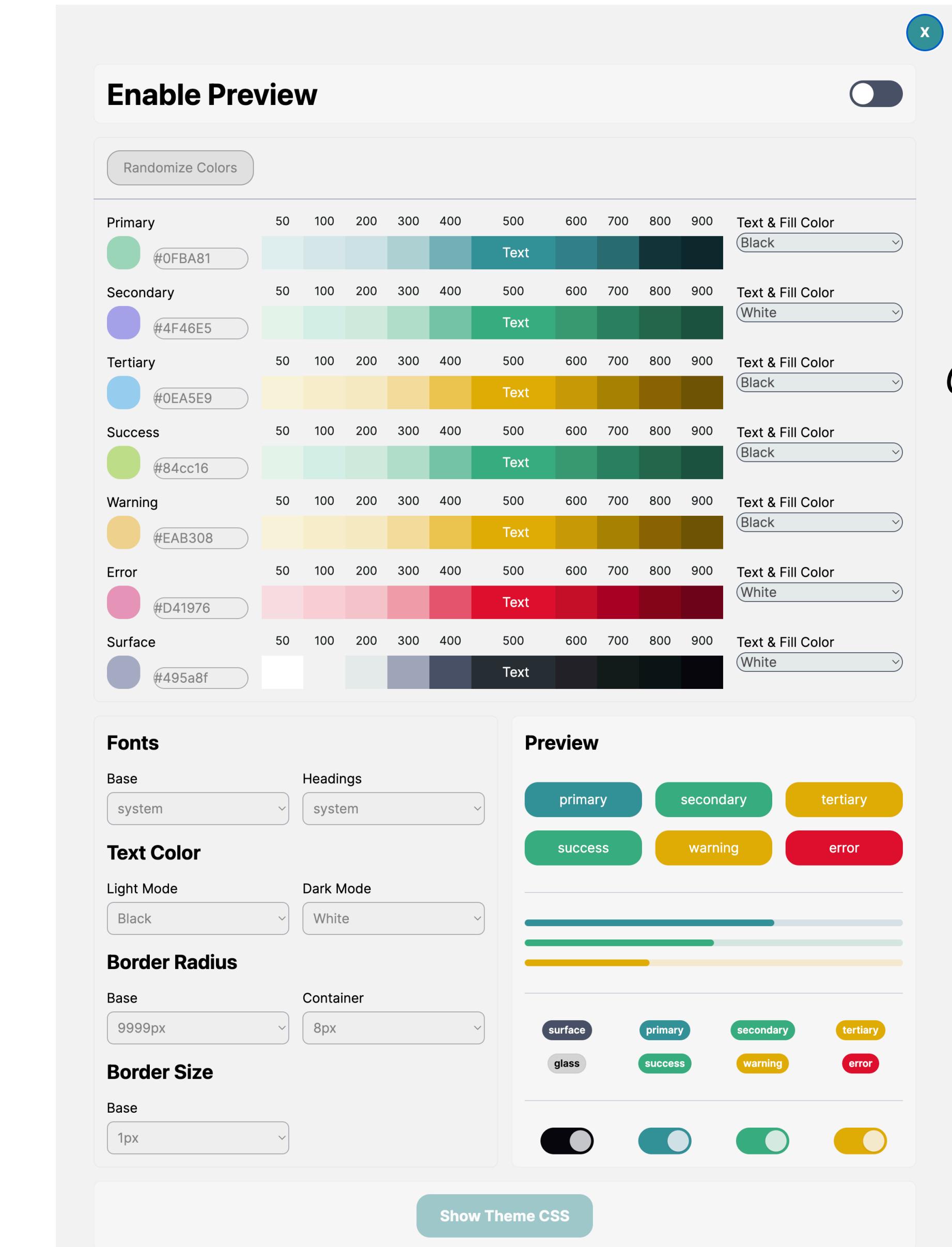
Design 

 **Skeleton** @SkeletonUI

UI toolkit for Svelte and Tailwind.

50 Following 500 Followers

A screenshot of the Skeleton UI toolkit website. It features a purple gradient background with a central white circle containing a black owl wearing a crown. The main heading is "The UI toolkit for Svelte and Tailwind." Below it is a subtext: "Skeleton allows you to create adaptive and accessible interfaces for web apps of any shape or size." There are two buttons: "Get Started →" and "Learn More". A search bar with placeholder text "Search..." is positioned below the subtext. At the bottom, there's a circular graphic with three icons: a green circle, a skull, and a gear. Below this graphic are three buttons: "Friendly", "Adaptive", and "Customizable". A "Design" button with a hand icon is located at the bottom left. On the right side, there's a sidebar with the "Skeleton" logo and the text "UI toolkit for Svelte and Tailwind.", followed by "50 Following" and "500 Followers".

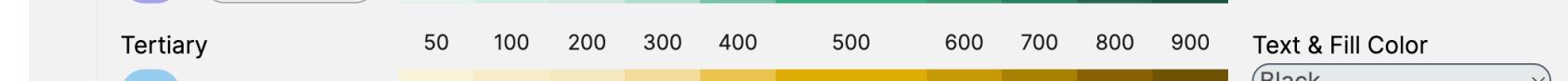


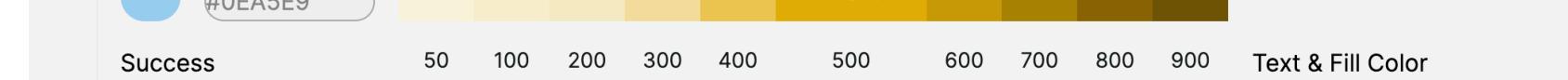
Enable Preview

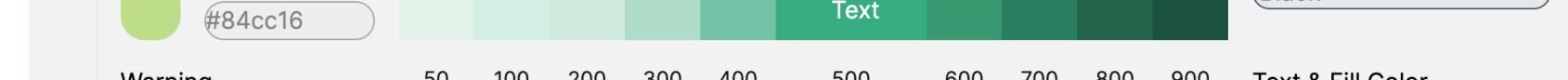
Randomize Colors

Primary  Text & Fill Color: Black

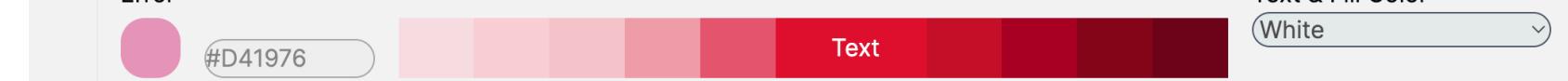
Secondary  Text & Fill Color: White

Tertiary  Text & Fill Color: Black

Success  Text & Fill Color: Black

Warning  Text & Fill Color: Black

Error  Text & Fill Color: White

Surface  Text & Fill Color: White

Fonts

Base: system Headings: system

Text Color

Light Mode: Black Dark Mode: White

Border Radius

Base: 9999px Container: 8px

Border Size

Base: 1px

Preview

primary secondary tertiary

success warning error

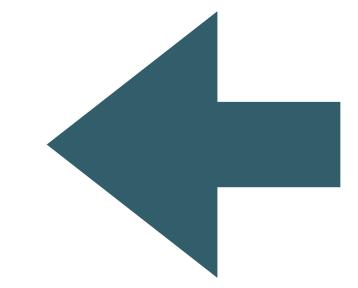
surface primary secondary tertiary

glass success warning error

Show Theme CSS

A screenshot of the Tutors Reader theme designer interface. At the top, there's a toggle switch labeled "Enable Preview" which is turned on. Below it is a "Randomize Colors" button. The main area is divided into several sections: "Primary", "Secondary", "Tertiary", "Success", "Warning", "Error", and "Surface", each showing a color palette with a hex code and a "Text & Fill Color" dropdown set to either "Black" or "White". Below these are sections for "Fonts", "Text Color" (with "Light Mode" and "Dark Mode" dropdowns), "Border Radius", and "Border Size". On the right side, there's a "Preview" section showing colored buttons and bars corresponding to the themes defined above. At the bottom, there's a "Show Theme CSS" button.

Theme designer built into Tutors Reader



Challenge 2: Resources

Challenge 2: Theme & Iconography

The slide displays three cards under the heading "Challenge 2: Theme & Iconography".

- Tutors Theming**: Shows a green mountain icon with a sun icon above it. Text: "Exploring the Tutors Theme Subsystem".
- Skeleton**: Shows a dark circular icon with a white skull and a crown. Text: "The Skeleton.dev Theming Subsystem".
- Iconify**: Shows a blue smiley face icon. Text: "The Icon Libraries used by Tutors".

Overview of
Tutors Themes

Skeleton
Design
Systems

Icon Library
used by Tutors

Lab-03-Rebuild I

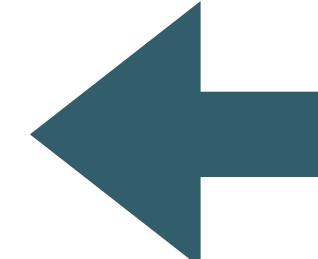
Tutors

Download and build the tutors reader application.

Lab-04-Create a I Theme

Generate a new theme

Guides on
Rebuilding
&
Theming
Tutors



Challenge 3: Reimagine the Tutors learning experience, revising the existing UX, proposing simple or radical alternative layouts, navigation, learning objects & interaction patterns.

Unit Panel

This is a note with at TOC

This is the intro to the main page.

- Part 1
- Part 2
- Part 3
- Part 4

Higher Diploma in Computer Science
Full Stack Web Development

Watch on YouTube

Panel Video

Lecture
This talk has a pdf + a video with start/end times

Lecture
This one just has a video, no PDF

Lab-01
A regular lab but supported by a video

An example of a side unit

Cards with SVG

Learning objects with SVG images

Panel Talk

Panel talk promotes presentation to topic

Unit 1 Title

17 Higher Diploma in Computer Science Full Stack Web Development

Panel Video

Lecture
A short summary of the talk, no more than two sentences. Avoid bullet...

Lecture
Provide a short summary, perhaps supported by a representative image.

Lab-01
A set of practical instructions or a walk-through

Side Unit

Lab-01: Objectives

01: Text

02: Tables, Lines and Images

03: Links and Code Blocks

04: Images

05: Katex

Exercises: Exercises & Archives

Links and Code Blocks

You can insert links in bullet points:

- <http://github.com>
- <http://bitbucket.dom>

More Code Block examples

```
publish(path, course) {
  const basePath = '../' + path + '/' + this.folder;
  futils.initEmptyPath(basePath);

  this.resources = this.talks.concat(this.labs);
  futils.copyFileToFolder(this.img, basePath);
  futils.writeFile(basePath + '/index.html', nunjucks.render('index.html', {
    url: this.url.substring(5) + '/' + this.folder
  }));

  futils.writeFile(basePath + '/ajaxlabel.html', nunjucks.render('ajaxlabel.html', {
    url: this.url.substring(5) + '/' + this.folder
  }));
  futils.writeFile(basePath + '/indexmoodle.html', nunjucks.render('indexmoodle.html', {
    url: this.url.substring(5) + '/' + this.folder
  }));

  console.log(this.title);
  this.publishTalks(basePath);
  this.publishLabs(basePath, course);
},
```

1 of 1

Tutors Starter Presentation.pdf

Replace with your own slide deck in a .pdf format!

Panel talk promotes presentation to topic

topic-01

- unit-1
 - book-a
 - talk-1
 - talk-1.jpg
 - talk-1.md
 - talk-1.pdf

Varied

Note Example
is a document in Markdown

Resource 1
A zipped archive for students to download

Github Repo 1
A repo in github that captures important lessons from this topic

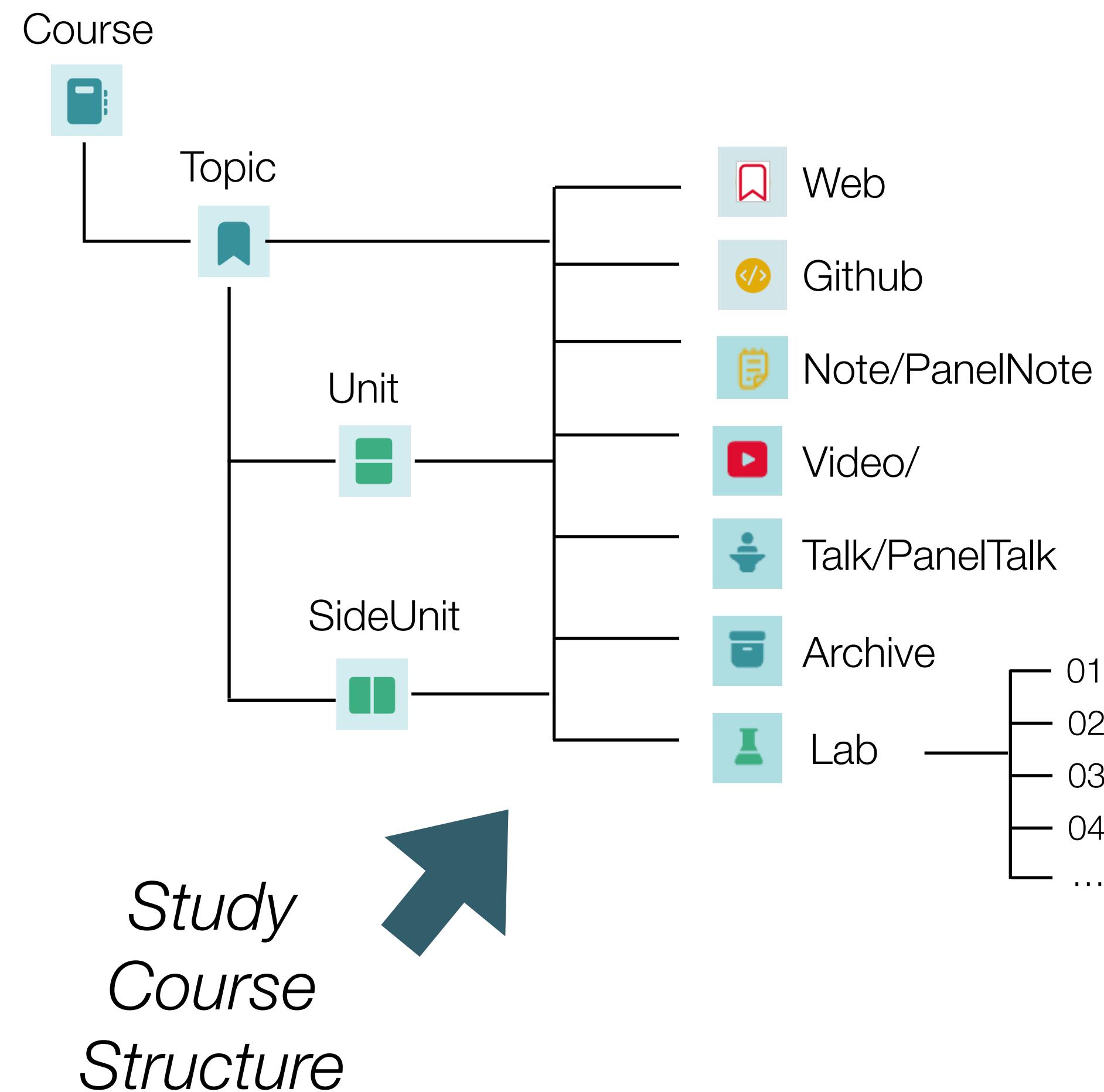
Web Site
A web site of interest

Lab-01
A set of practical instructions or a walk-through

This is a note with at TOC
This note has a linkable table of contents, generated automatically

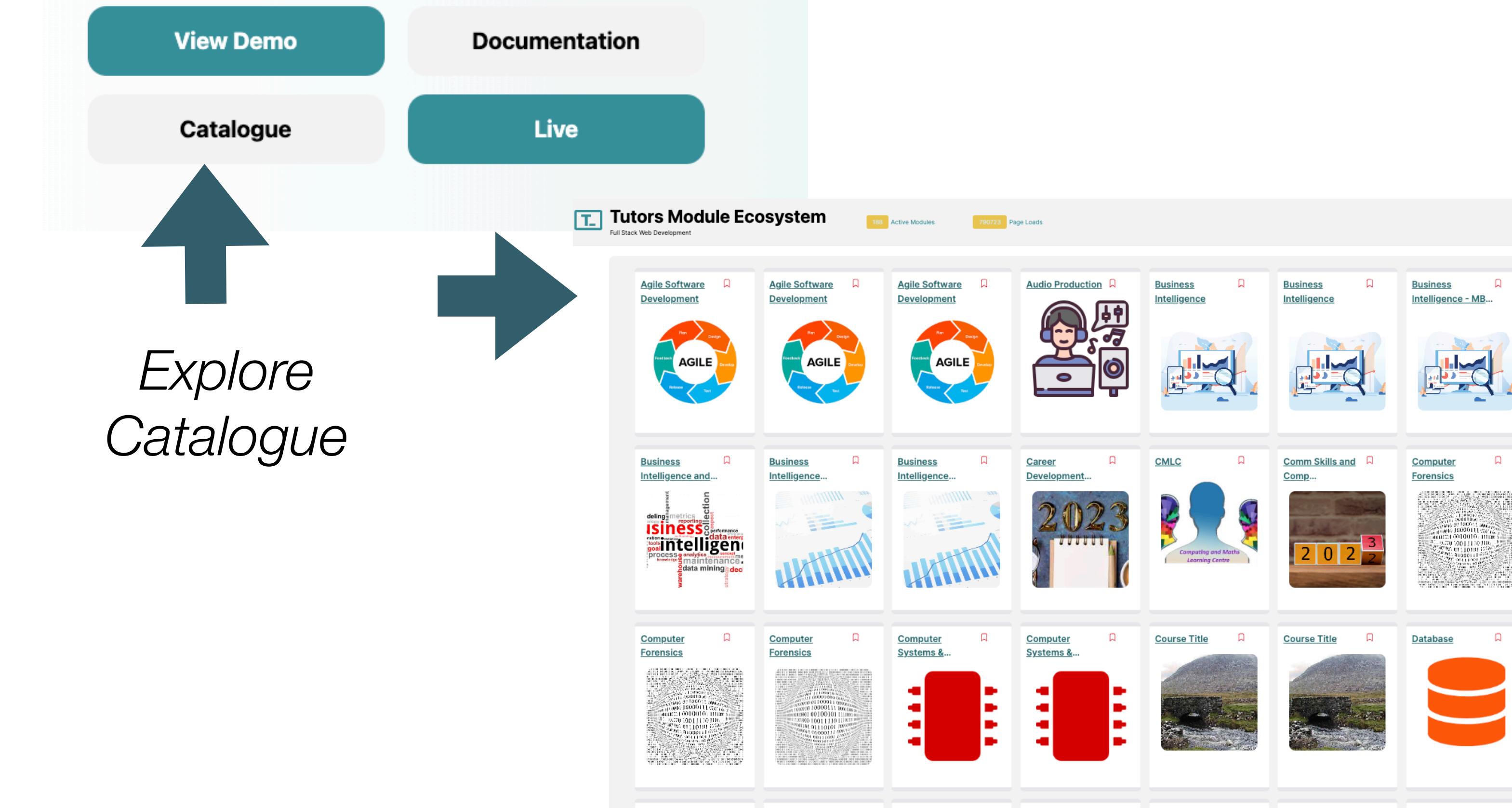
Lecture 1
A short summary of the talk, no more than two sentences. Avoid bullet...

Challenge 3: Resources

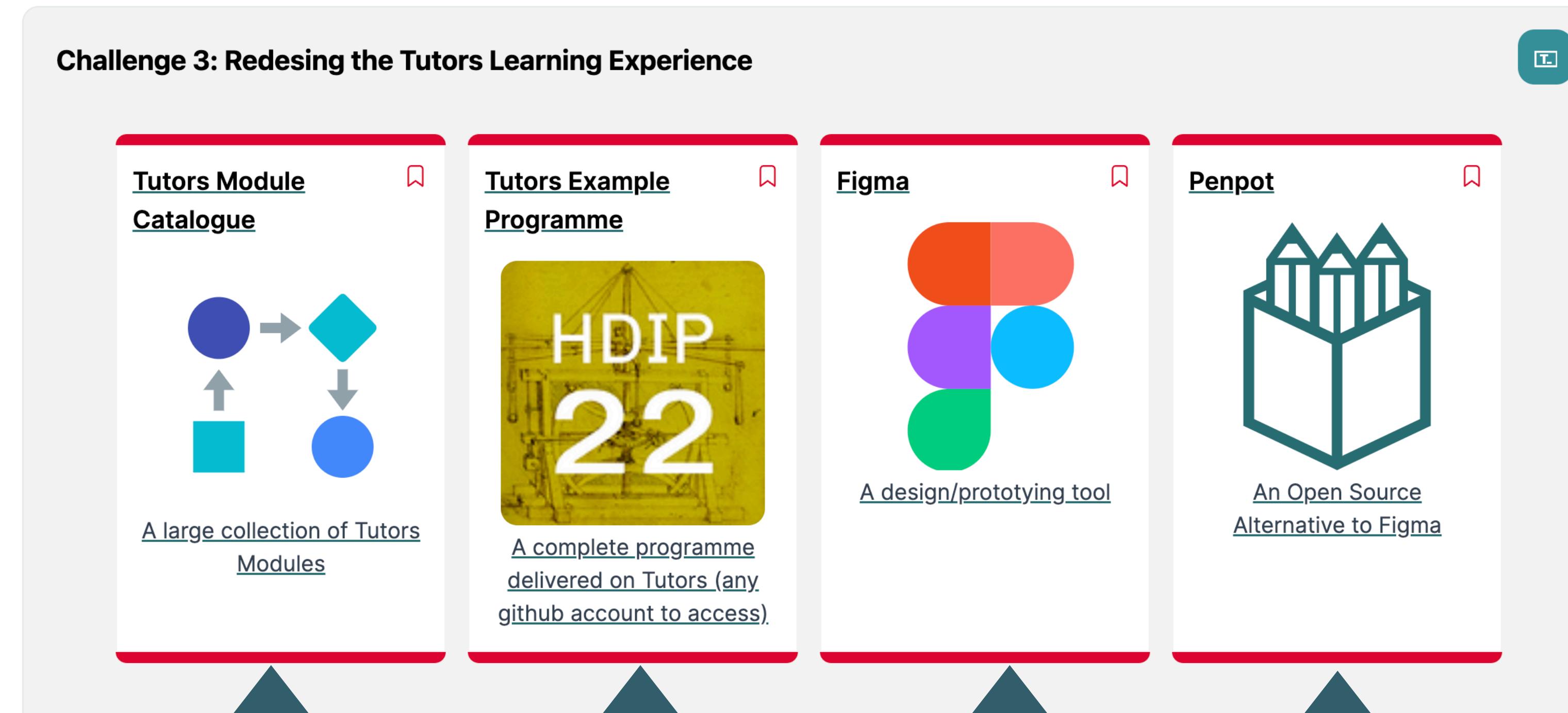


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A collection of open source components & services supporting the creation of transformative learning experiences using open web standards.



Challenge 3: Resources



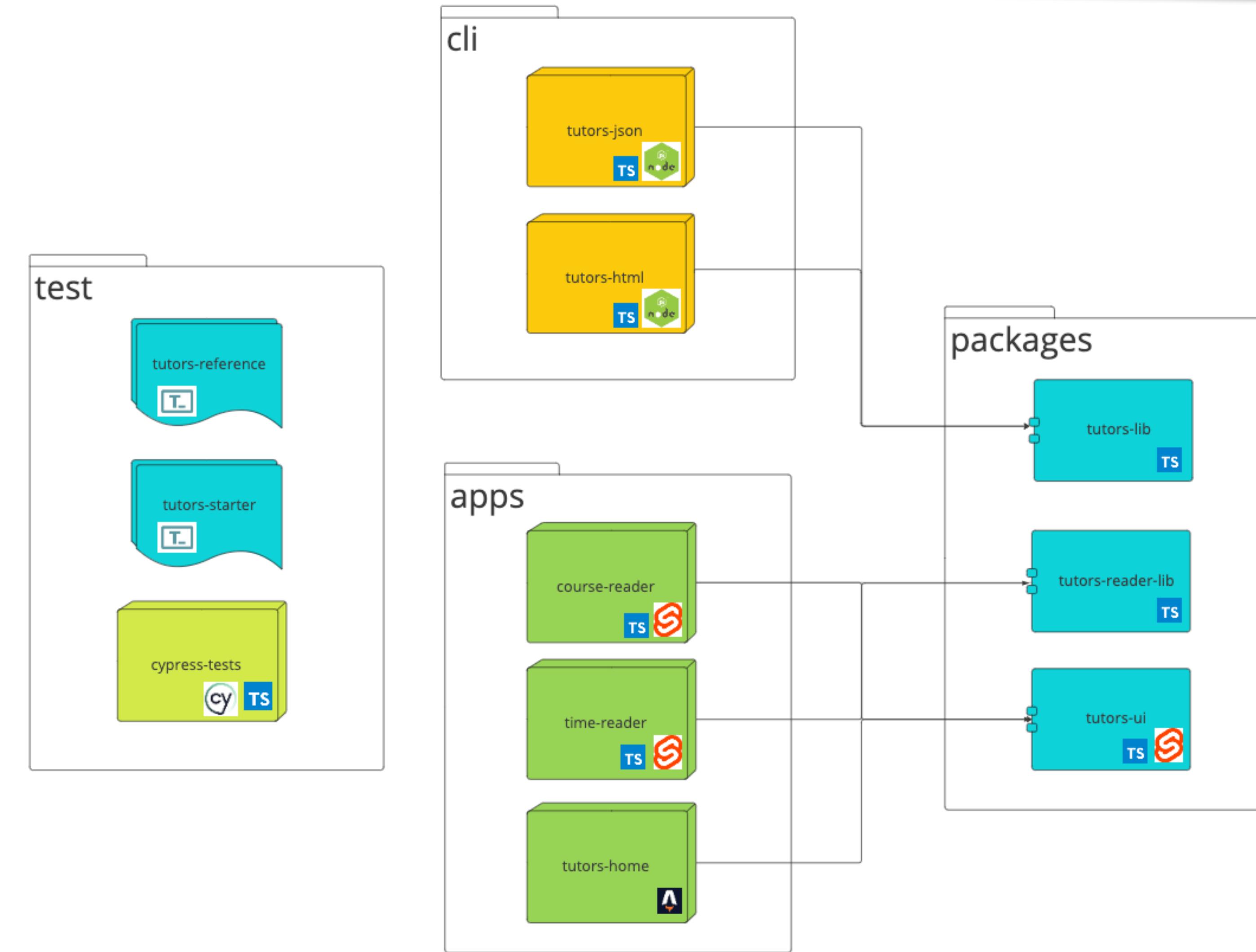
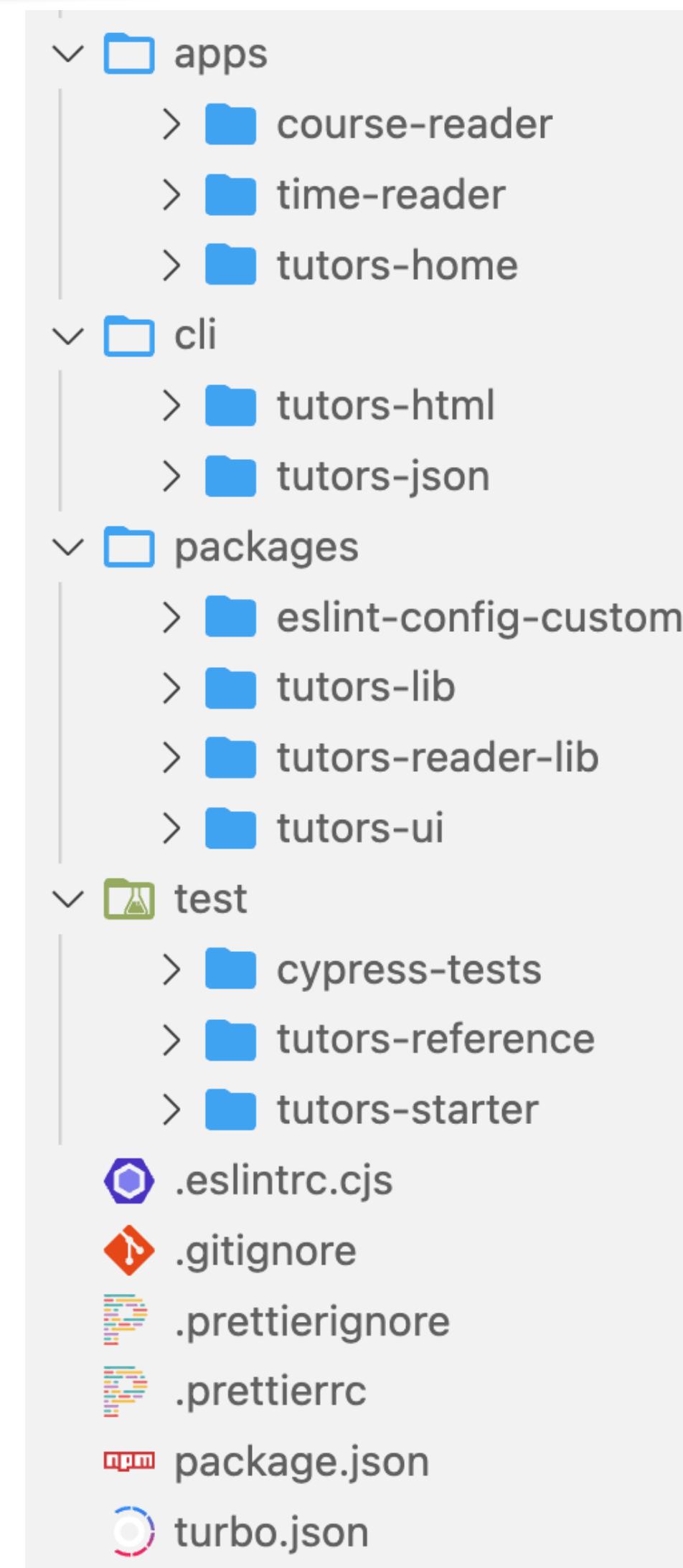
Tutors Module Catalogue

Complete Multi-Course Programme

Figma Prototyping Tool

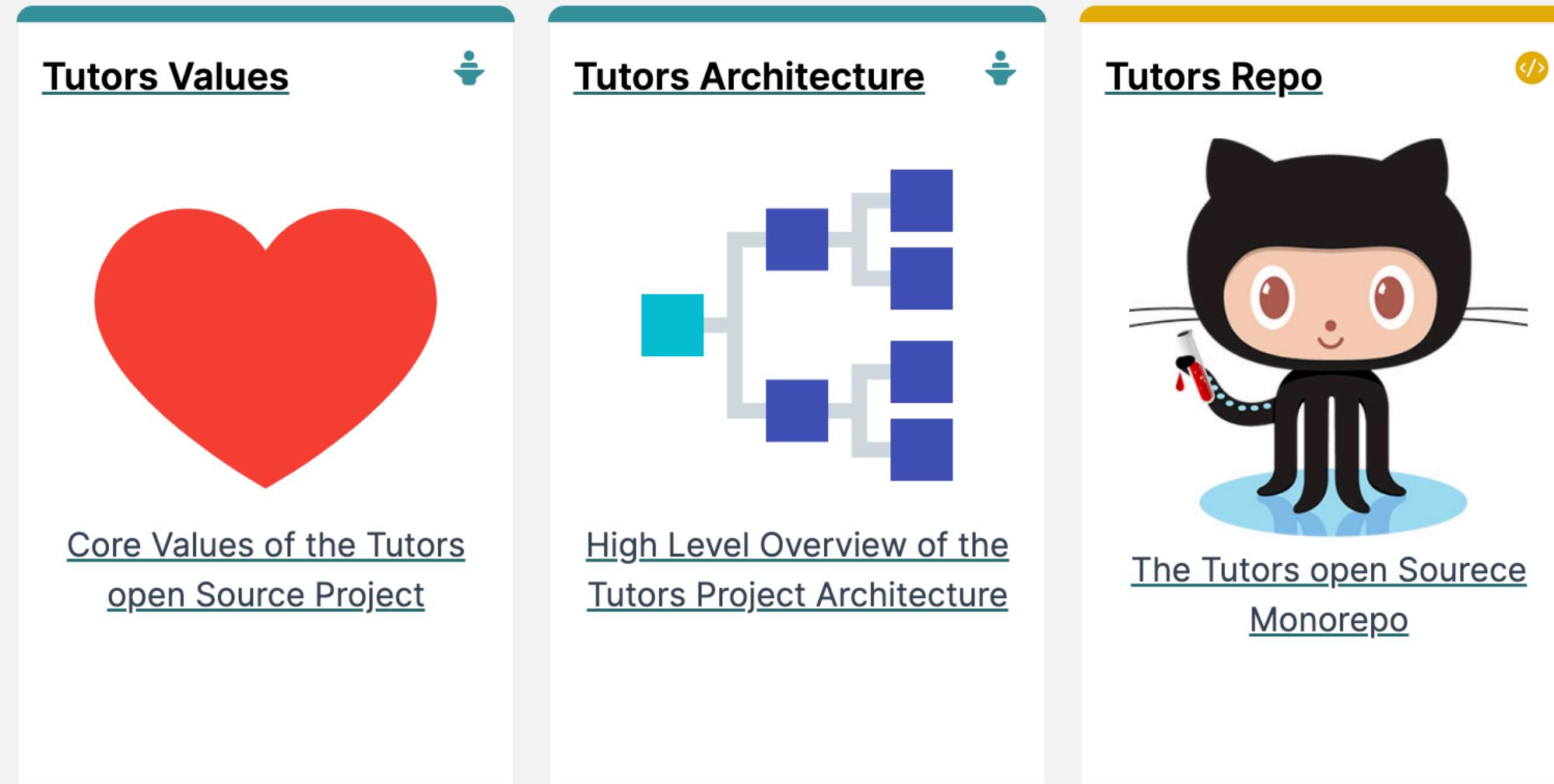
Open Source Figma Alternative

Challenge 4: Map out an implementation of Challenge 3 in the Tutors Open Source Project.



Challenge 4: Resources

Challenge 4: Implement (some of) the re-imagined features

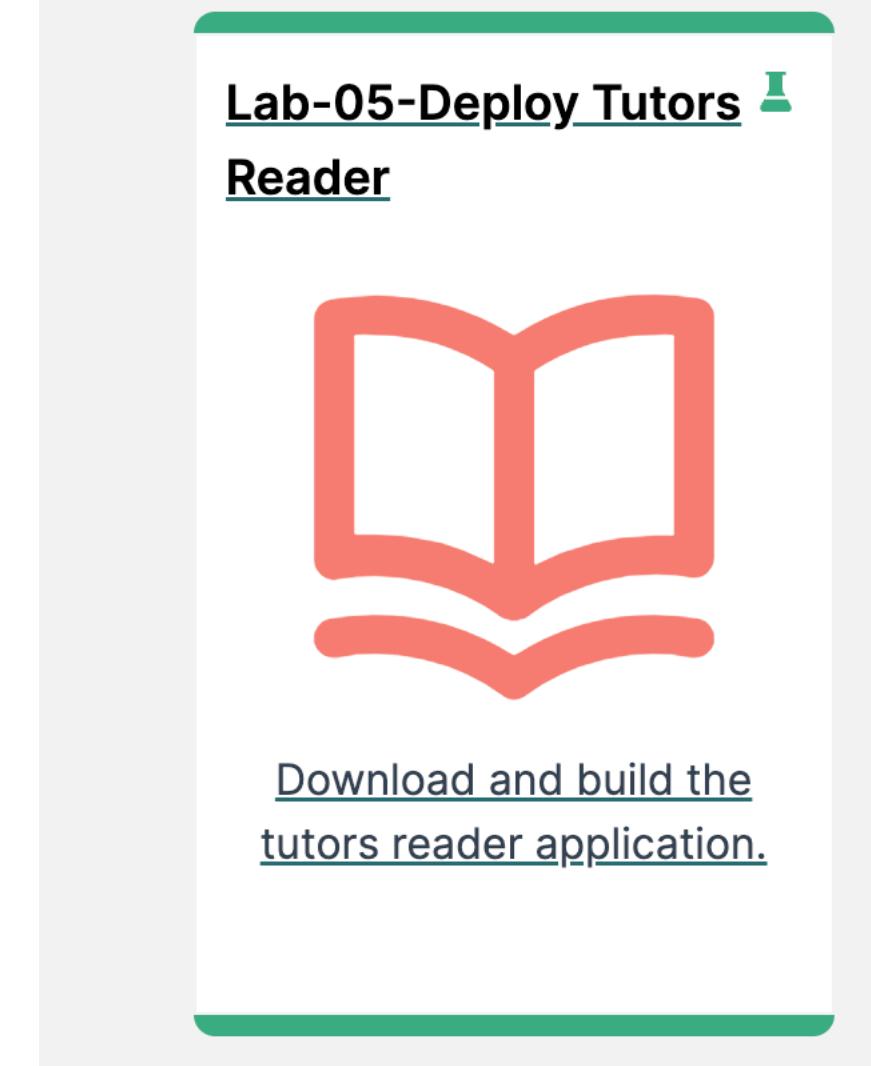


Tutors Values
Core Values of the Tutors open Source Project

Tutors Architecture
High Level Overview of the Tutors Project Architecture

Tutors Repo
The Tutors open Source Monorepo

Guiding Principles of Tutors
Tutors Architecture
Tutors Source Monorepo



Lab-05-Deploy Tutors Reader
[Download and build the tutors reader application.](#)

Deploying a new Tutors Reader

