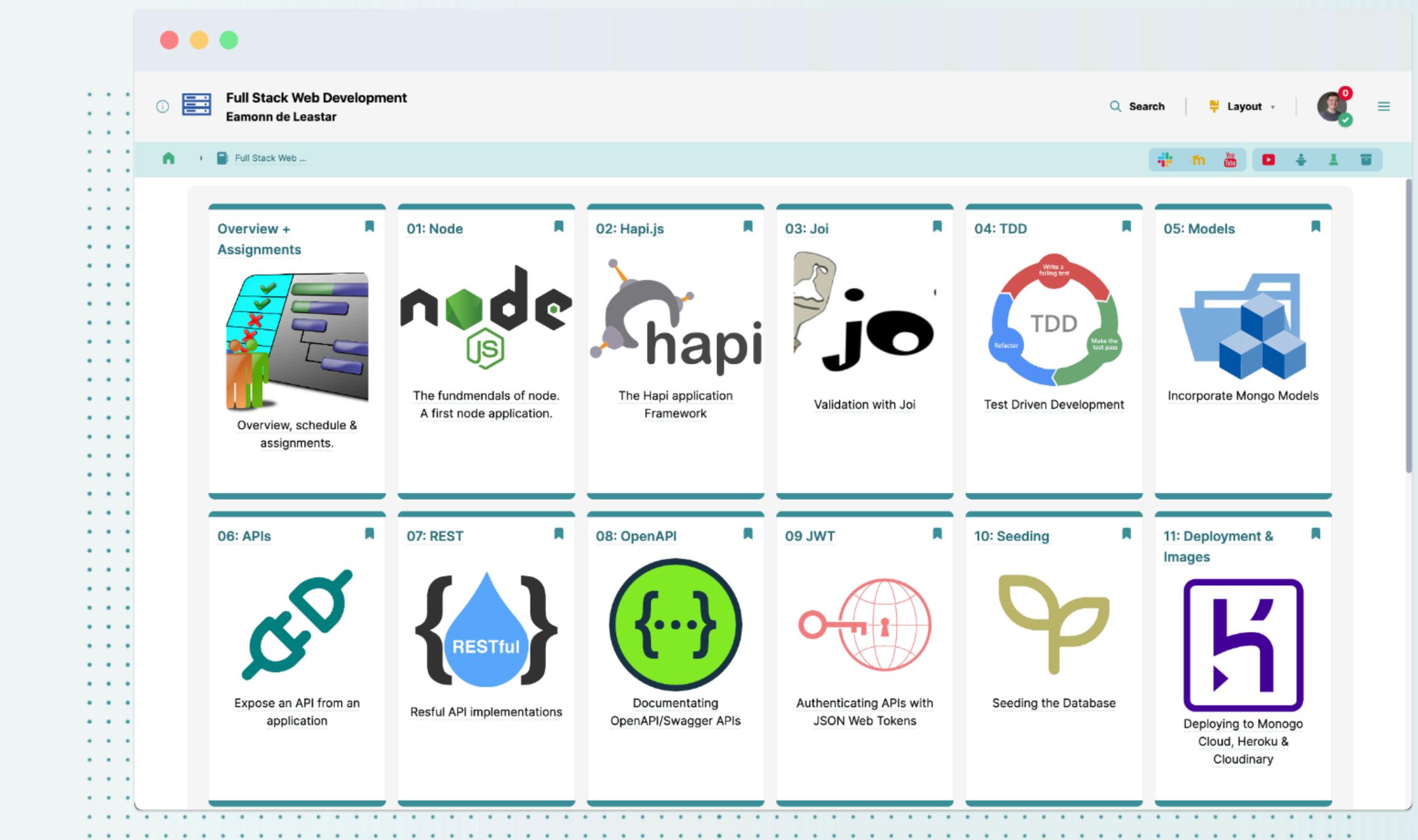


An Open Learning Web Toolkit

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

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

The **Values** of the project

Learner Experience



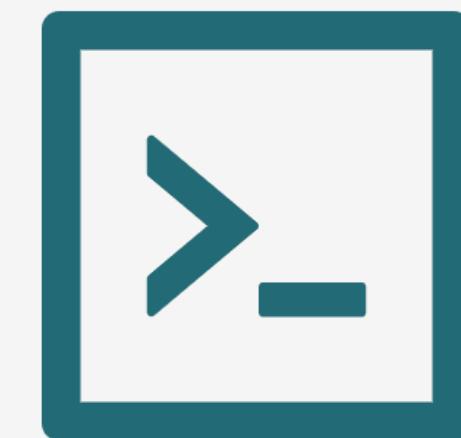
The **Learner Experience** prioritises web interactions that are **engaging**, **contextual**, **linkable**, **searchable**, **accessible** and **responsive**. In addition the experience should foster a sense of **community** and **connection** among fellow learners.

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**.

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**.



Tutors: Four Challenges

Challenge 1: Create a 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 0

Home Full Stack Web ... 17: Charts & Gr... Labs Lab-17a Charts

Google Sheets Google Slides YouTube

Objectives
Components Libraries
Frappe Charts

Search Layout 0

Assignment Specifications
00: Induction
01: First Contact
02: Selection & Iteration
03: Methods
04: Classes
05: Arrays
06: Game of Pong

Charts Page

Introduce an additional icon in our navigator:

MainNavigation.svelte

```
...<a href="/charts" class="co1"><i class="fas fa-chart-line"></i></a>...
```

This is a new page:
routes/charts/+page.svelte

```
<script>
  import TitleBar from "$lib/components/TitleBar.svelte"
  import MainNavigator from "$lib/components/MainNavigator.svelte"
  import Chart from "svelte-charts/chart.js"
  import "svelte-charts/styles.css"

  let data = {
    labels: ["Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"],
    datasets: [
      {
```

SQL Aggregate functions
Database

Search Layout 0

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;
```

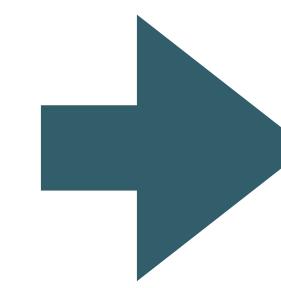
05: SQL: Select statement

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



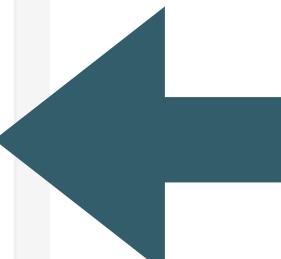
Lab-01-Create

Create and publish a Tutors course

Lab-02-Edit

Explore and edit the elements of a Tutors course

Guides on creating + publishing a course



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

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



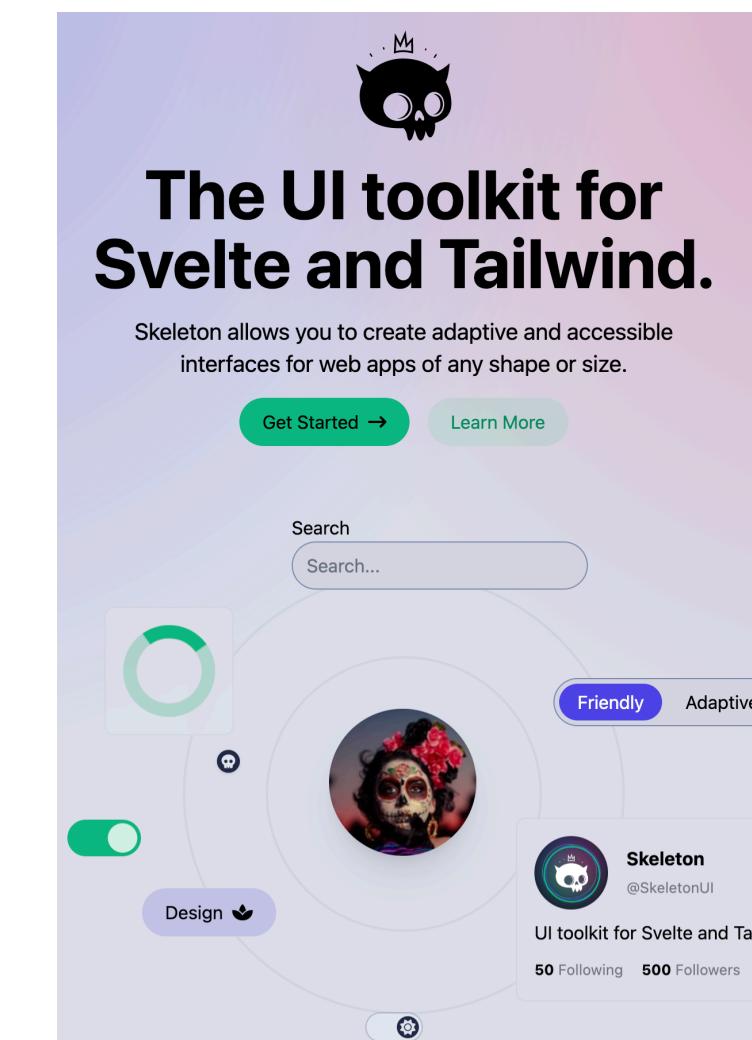
Challenge 2: Design and implement a new Theme + Icon Pack for Tutors, extending the UX in interesting ways. Rebuild the Tutors Reader to include these changes.

The screenshot shows the Tutors theme editor. On the left, under 'Lab-03-Theme', there's a red gear icon with a share symbol and a button labeled 'Generate a new theme'. On the right, under 'Lab-04-Rebuild', there's a red book icon and a button labeled 'Download and build the tutors reader application.'

Theming System
Derived from
skeleton.dev

Guides on
creating +
publishing a
new Theme

Theme
designer built
into Tutors
Reader



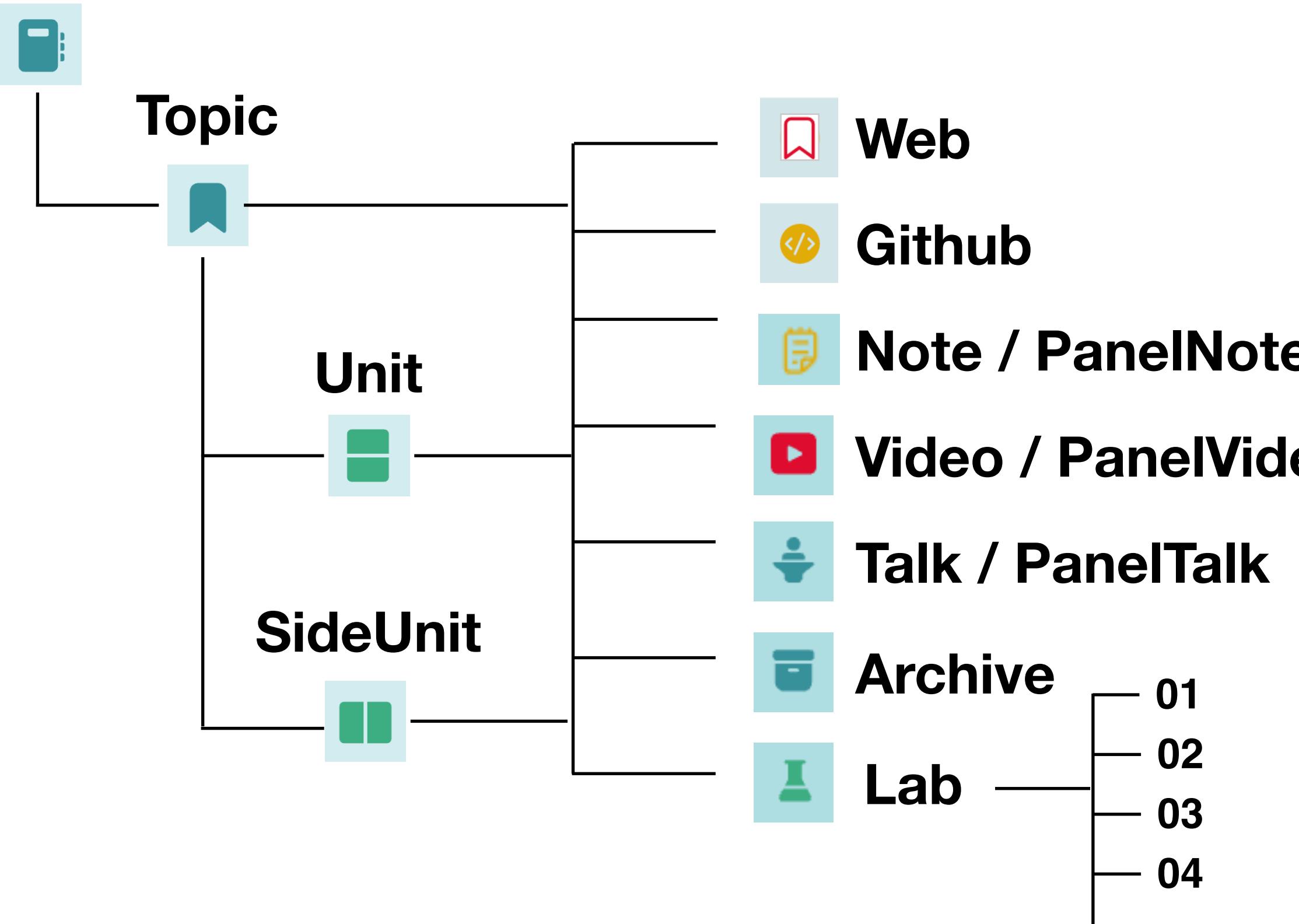
<https://www.skeleton.dev/>

The screenshot shows the Tutors theme editor's 'Enable Preview' section. It includes a 'Randomize Colors' button, a color palette for Primary (#0FBA81), Secondary (#4F46E5), Tertiary (#0EA5E9), Success (#84cc16), Warning (#EAB308), Error (#D41976), and Surface (#495a8f) colors, and dropdown menus for 'Text & Fill Color'. Below this are sections for 'Fonts' (Base: system, Headings: system), 'Text Color' (Light Mode: Black, Dark Mode: White), 'Border Radius' (Base: 9999px, Container: 8px), and 'Border Size' (Base: 1px). A 'Preview' section on the right shows colored buttons and bars corresponding to the theme colors. At the bottom, there's a 'Show Theme CSS' button.



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

Course



Higher Diploma in Computer Science
Full Stack Web Development

Watch Later Share

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.org>

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);
```

Copy

Unit 1 Title

Side Unit

Lab-01

A set of practical instructions or a walk-through

Lab-01

A set of practical instructions or a walk-through

Part 1

Part 2

Part 3

Part 4

This is a note with at TOC

This is the intro to the main page.

Part 1

Part 2

Part 3

Part 4

Lecture

Unit Panel

This talk

video with

Panel Video

Simple

Varied

Media

Units

Simple Topic with lectures + a lab

Variety of learning objects

Videos presented in various contexts

Units which contain variety of learning objects

Side Units

Cards with SVG

Panel Talk

Panel Note

An example of a side unit

Learning objects with SVG images

Panel talk promotes a presentation to topic page

Panel note promotes a note to Topic level

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

topic-01
└── unit-1
 └── talk-1
 ├── book-a
 └── talk-1.jpg
 └── talk-1.pdf

Note Example

Resource

GitHub Repo 1

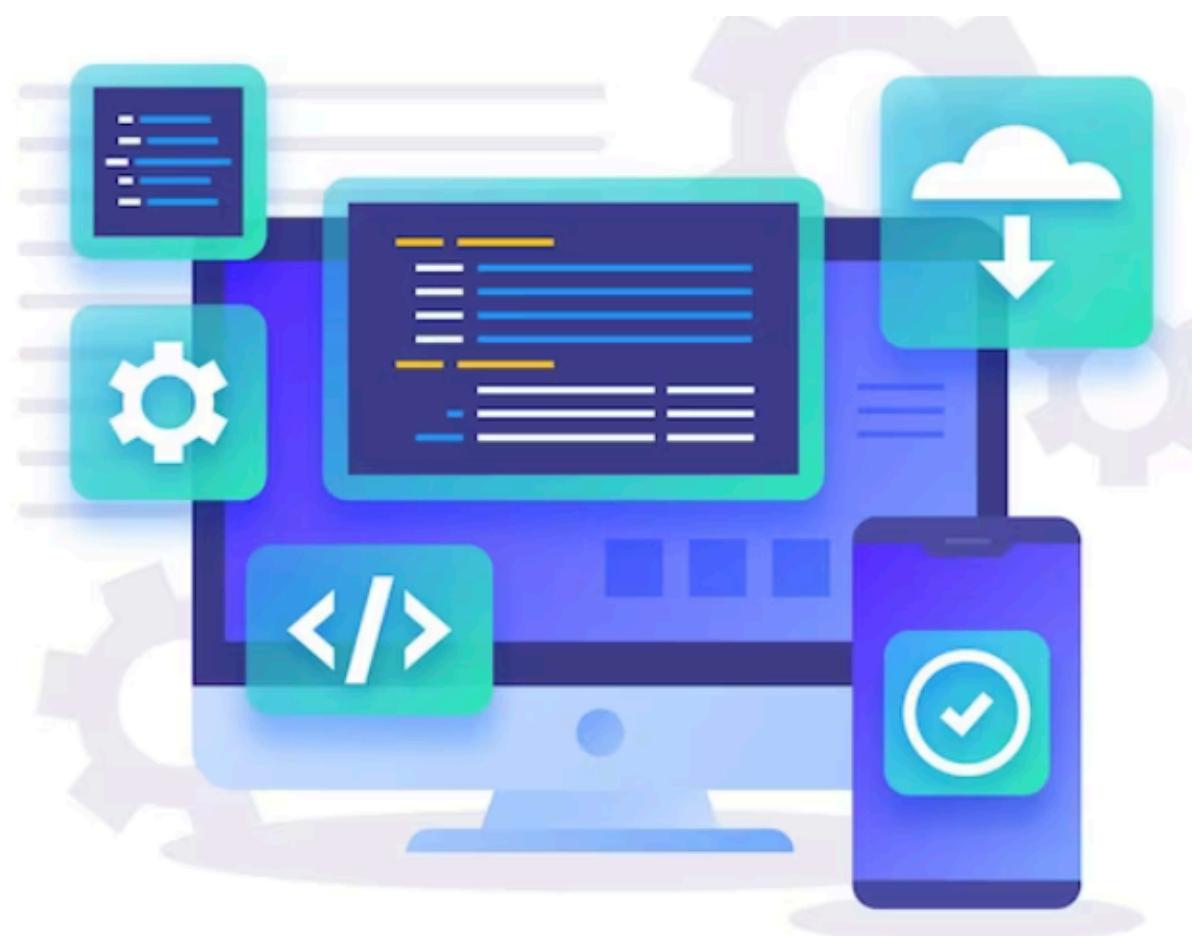
Web Site

Lab-01

This is a note with at TOC

Lecture 1

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



- VSCode

