Foundation class for 100xdevs cohort

What we're learning

- 1. VSCode
- 2. HTML
- 3. CSS
- 4. JS
- 5. DOM
- 6. Assignments

What we'll learn practically

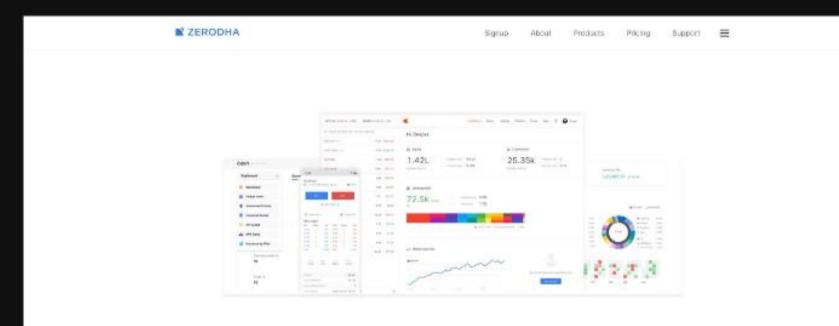
Small boi stuff

- 1. Tags
- 2. Attributes
- 3. Inline styles (bg color, fonts ...) 3. Connecting JS to HTML
- 4. JS Basics, data types, loops, fns...

Big boi stuff

- 1. External styles, classes and ids
- 2. Flexbox
- (selectors, DOM)
- 4. Chrome Dev tools

What we're building



Invest in everything

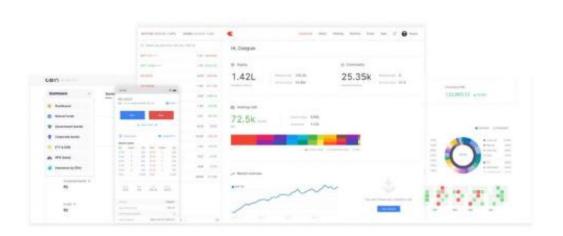
Online platform to invest in stocks, derivatives, mutual funds, and more



Stage 1

(HTML Only)

Zerodha Sign Up About Us Products Support



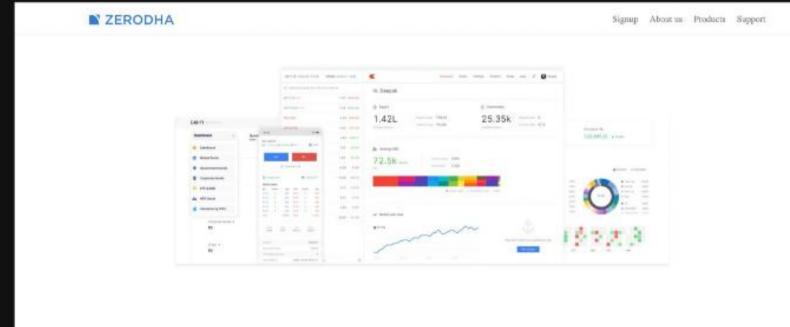
Invest in everytghing

Online platform to invest in stocks, derivatives, mutual funds, and more

Sign Up Now

Stage 2

(HTML + CSS)



Open a Zerodha account

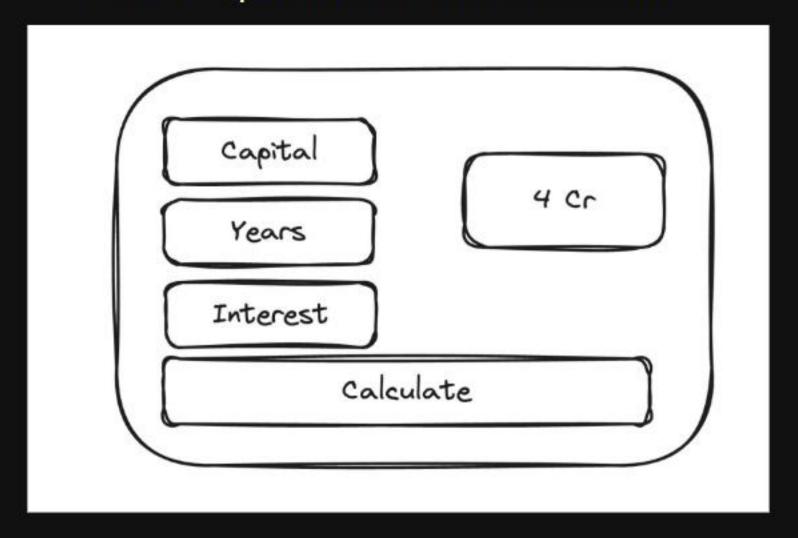
Online platform to invest in stocks, derivatives, mutual funds, and more

Sign up now

Stage 3

JS

Create a portfolio returns calculator



Before we start

What are browsers? How do they **render** websites? What purpose do HTML/CSS/JS serve

How much of this do we actually use in the industry -

1. html => very minimal

2. css => minimal

3. js - heavy

IDE

VSCode Vim WebStorm

HTML

Defines the structure of your website

2 jargon we need to know of -

1. Tags

2. Attributes

HTML Tags

- <html>
- <head>
- <title>
- <body>
- <div> /
- <h1> .. <h6>
- •
-
- <a>>
- input
- <button>
- / <i>
- <center>

Attributes

- <img|src="a.png">
-
- <button onclick="">
- <input id="username">

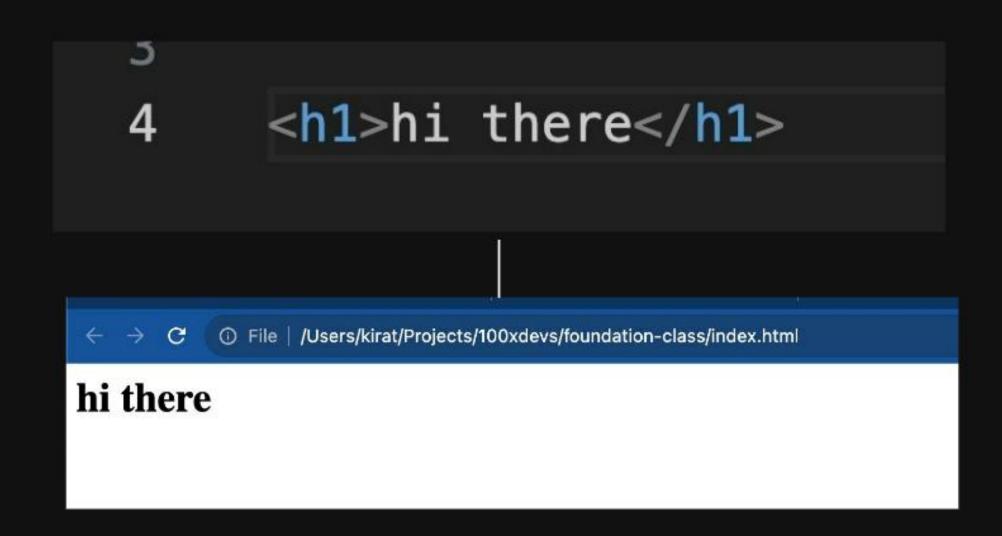
<input id="username">

Css

They let you add **styles** to your website (colors, font sizes, background colors ...)

Used for positioning things on the page

How to add styles?



How to add styles?

```
<h1 style="color: red; background: green;">hi there</h1>
        ① File /Users/kirat/Projects/100xdevs/foundation-class/index.html
```

Common styling attributes

color
background
border-radius
border
padding / margin
box-shadow

How to position?



divs always take up all the space available horizontally spans only take up as much space as needed

Can you make divs take only the space they need?

How to position?



Dumb way

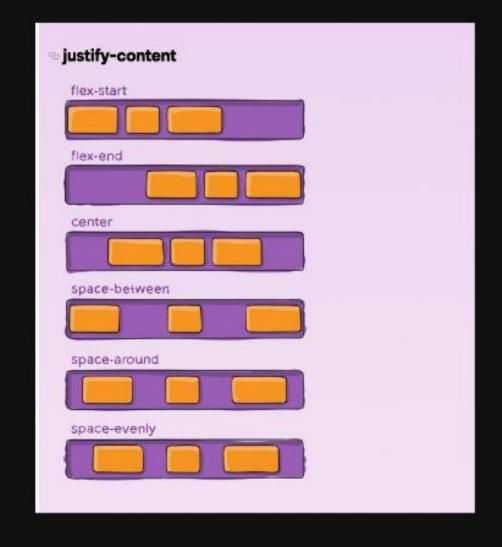


float property

Right way Flex box

display: flex

on parent
makes all div siblings reside
in the same line



Javascript

It is a scripting language

It can be used to solve algorithmic problems/do ML/do backend development

Specifically for websites, it is useful to add functionality to your website (for example, a returns calculator)

We're going to practise on repl.it first

For JS (or any language), you need to know

- variables
- Simple Data types (strings, numbers, boolean)
- Complex Data types (arrays and objects)
- Control statements and operators
- Loops
- Functions

Problems to understand these

- 1. Count from 1 to 1000
 - 2. Is Palindrome?
- 3. Find the name of the oldest person in a group

Take home assignment -Find the age of k oldest people in the group

https://leetcode.com/problem-list/top-interview-questions/?topicSlugs=string&page=1&difficulty=EASY

https://leetcode.com/problem-list/top-interview-questions/?topicSlugs=array&page=1&difficulty=EASY

Connecting JS to returns tracking app

First let's write a function that takes 3 inputs

1. numberOfYears

2. base

3. yearlyGains

and returns net portfolio value

Assignment

