

Table of Contents

Daily Progress Summary	1.1
Day 1: Lesson 1 - Lesson 3	1.2
Finish lesson 1: Why this Course and Course plan	1.2.1
Finish lesson 2: Editor	1.2.2
Finish lesson 3: Adobe Photoshop Essentials	1.2.3
Day 2: Lesson 1 - Lesson 3	1.3
Finish lesson 4: Bootstrap 4	1.3.1
Day 3: Lesson 5	1.4
Finish lesson 5: Preprocessors SASS vs LESS	1.4.1
Day 4: Lesson 6 - Lesson 9	1.5
Finish lesson 6: Trello The Project Manager	1.5.1
Finish lesson 7: OpenCharity Overview	1.5.2
Finish lesson 8: Prepare files	1.5.3
Finish lesson 9: Linking Files + Implement Style Sheet	1.5.4
Day 5: Lesson 10 - Lesson 14	1.6
Finish lesson 10: Navbar Part 1	1.6.1
Finish lesson 11: Navbar Part 2	1.6.2
Finish lesson 12: Header Part 1	1.6.3
Finish lesson 13: Header Part 2	1.6.4
Finish lesson 14: Get Involved Section	1.6.5
Day 6: Lesson 15 - Lesson 21	1.7
Finish lesson 15: Mission Section	1.7.1
Finish lesson 16: Members Section	1.7.2
Finish lesson 17: Event Section	1.7.3
Finish lesson 18: Blog Section	1.7.4
Finish lesson 19: Contact Section and Footer	1.7.5
Finish lesson 20: Enhancements	1.7.6
Finish lesson 21: Testing	1.7.7
Day 7: Lesson 22 - Lesson 29	1.8
Finish lesson 22: Recap	1.8.1
Finish lesson 23: 404-Overview	1.8.2
Finish lesson 24: Prepare Files	1.8.3
Finish lesson 25: Start Code	1.8.4
Finish lesson 26: Recap	1.8.5
Finish lesson 27: Merkury Overview	1.8.6

Finish lesson 28: Prepare Files	1.8.7
Finish lesson 29: Linking Files	1.8.8
Day 8: Lesson 30 - Lesson 37	1.9
Finish lesson 30: Navbar Part 1	1.9.1
Finish lesson 31: Navbar Part 2	1.9.2
Finish lesson 32: Header	1.9.3
Finish lesson 33: Service Section	1.9.4
Finish lesson 34: Features Section	1.9.5
Finish lesson 35: Drag and Drop Section Part 1	1.9.6
Finish lesson 36: Drag and Drop Section Part 2	1.9.7
Finish lesson 37: Template Section	1.9.8
Day 9: Lesson 38 - Lesson 43	1.10
Finish lesson 38: Pricing Section	1.10.1
Finish lesson 39: Join and Footer Section	1.10.2
Finish lesson 40: Enhancements	1.10.3
Finish lesson 41: Testing	1.10.4
Finish lesson 42: Recap	1.10.5
Finish lesson 43: Important Tips	1.10.6
Day 10 - Present: Front-end Development Extended Training	1.11
Day 10: 26/08/2018	1.11.1
Day 11: 29/08/2018	1.11.2
Day 12: 07/09/2018	1.11.3
Day 13: 12/09/2018	1.11.4

Building 3 Responsive Real World Website Using HTML5, CSS3, JS, And Bootstrap 4

Planing

- Expected time: 59 hours
- Finish day: 20/08/2018
- [Study Schedule](#)

Certificate



Day 1: 12/08/2018

Today's progress

Finish lesson 1: Why this Course and Course plan

- Get the purpose of the course
- List out overall content for the course

Finish lesson 2: Editor

- Choose for yourself an IDE(VS Code as the course suggested)
- Discover some built-in features of VS Code
- Install some package for VS Code

Finish lesson 3: Adobe Photoshop Essentials

- How to convert a PSD to a full working website
- Explain photoshop tools

Thoughts

- Struggle with Git a little bit.
- The documentation is more time-consuming than expected.
- Spend some time on markdown hyperlink
- The markdown preview of VSCode show wrong indentation.
- Markdown show up in gitlab and atom differently which blocks
- The lesson is like a walk in the park not as hard as i expected

Links to work

[Details of lesson 1](#)

[Details of lesson 2](#)

[Details of lesson 3](#)

Day 2: 13/08/2018

Today's progress

Finish lesson 4: Bootstrap 4

- Discuss some of the necessary and most used bootstrap components and utilities

Thoughts

- Phew, Pretty long documentation
- The video is a bit hard to listen

Links to work

[Details of lesson 4](#)

Day 3: 14/08/2018

Today's progress

Finish lesson 5: Preprocessors SASS vs LESS

- Find out what is SASS and LESS, why use them and give some examples

Thoughts

- A little confusion comes from the naming of Sass and Scss.
- The `yarn global add node-sass` does not work, use `npm install node-sass -g` instead

Links to work

[Details of lesson 5](#)

Day 4: 15/08/2018

Today's progress

Finish lesson 6: Trello The Project Manager

- What is Trello and why it's helpful
- How to use

Finish lesson 7: OpenCharity Overview

- An overview on the website that we are going to clone

Finish lesson 8: Prepare files

- Build project folder structure
- Convert PSD file to some necessary assets
- Integrate Bootstrap 4

Finish lesson 9: Linking Files + Implement Style Sheet

- Link CSS and JS files to index.html
- Implement CSS of our own with less

Thoughts

- The Trello lesson is easy.
- Finding fonts and download them for free is time-consuming
- The photoshop move tool does not work properly, so inspecting elements to export struggle a bit, attempting to fix it.
- Lesson 9 is plain coding with no explanation or visual comparison

Links to work

Link to GitHub Project: [OpenCharity](#)

[Details of lesson 6](#)

[Details of lesson 7](#)

[Details of lesson 8](#)

[Details of lesson 9](#)

Day 5: 16/08/2018

Today's progress

Finish lesson 10: Navbar Part 1

- Implement styles for Navigation Bar

Finish lesson 11: Navbar Part 2

- Implement event-handlers for Navigation bar

Finish lesson 12: Header Part 1

- Implement page header sections

Finish lesson 13: Header Part 2

- Finish page header sections

Finish lesson 14: Get Involved Section

- Implement UI for GET INVOLVED Section

Thoughts

- Just mirror coding without any further explanation

Links to work

Link to GitHub Project: [OpenCharity](#)

[Details of lesson 10](#)

[Details of lesson 11](#)

[Details of lesson 12](#)

[Details of lesson 13](#)

[Details of lesson 14](#)

Day 6: 17/08/2018

Today's progress

Finish lesson 15: Mission Section

- Implement UI for Mission Section

Finish lesson 16: Members Section

- Install Owl Carousel 2
- Implement UI for Member Section

Finish lesson 17: Event Section

- Implement UI for Event Section

Finish lesson 18: Blog Section

- Implement UI for Blog Section

Finish lesson 19: Contact Section and Footer

- Implement UI for Contactc Section
- Implement UI for Footer

Finish lesson 20: Enhancements

- Add animation, fix responsive bugs, make changes to UI

Finish lesson 21: Testing

- Cover some remaining issues about UI, animation,...
- Increase website performance
- Do some testing

Thoughts

- Just mirror coding

Links to work

[Details of lesson 15](#)

[Details of lesson 16](#)

[Details of lesson 17](#)

[Details of lesson 18](#)

[Details of lesson 19](#)

[Details of lesson 20](#)

[Details of lesson 21](#)

Day 7: 18/08/2018

Today's progress

Finish lesson 22: Recap

- Review what we have built

Finish lesson 23: 404-Overview

- Prepare for the 404-penguins-page

Finish lesson 24: Prepare Files

- Build project folder structure
- Extract neccessary images from psd file
- Import in neccessary css.

Finish lesson 25: Start Code

- Implement UI
- Styling Page
- Add animation

Finish lesson 26: Recap

- Advices on project

Finish lesson 27: Merkury Overview

- Overview on what are we going to build

Finish lesson 28: Prepare Files

- Apply Trello steps

Finish lesson 29: Linking Files

- Link image and library with index.html
- Apply some custom CSS

Thoughts

- Spend some time on Trello stuffs

Links to work

[Details of lesson 22](#)

[Details of lesson 23](#)

[Details of lesson 24](#)

[Details of lesson 25](#)

[Details of lesson 26](#)

[Details of lesson 27](#)

[Details of lesson 28](#)

[Details of lesson 29](#)

Day 8: 19/08/2018

Today's progress

Finish lesson 30: Navbar Part 1

- Implement styles for Navigation Bar

Finish lesson 31: Navbar Part 2

- Add some enhancements to make our navbar more interactive

Finish lesson 32: Header

- Implement UI for page header section

Finish lesson 33: Service Section

- Implement UI for service section

Finish lesson 34: Features Section

- Implement UI for Features section

Finish lesson 35: Drag and Drop Section Part 1

- Implement Skeleton for Drag and Drop section

Finish lesson 36: Drag and Drop Section Part 2

- Implement Style for Drag and Drop section

Finish lesson 37: Template Section

- Implement UI for Template Section

Finish lesson 38: Pricing Section

- Implement UI for Pricing Section
- Remind of Box shadow CSS

Finish lesson 39: Join and Footer Section

- Implement UI for Join Section
- Implement UI for Footer Section
- Remind of `:before` , `:after` and `display: flex`

Thoughts

- Problem with git pushing, SSH key added but still require manually Authentication, pushing takes too much time, fail sometimes
- The course does not go into details of CSS keyframe, jQuery and jQueryUI, just mention syntaxes and some functionalities. Research on them later on.

Links to work

[Details of lesson 30](#)

[Details of lesson 31](#)

[Details of lesson 32](#)

[Details of lesson 33](#)

[Details of lesson 34](#)

[Details of lesson 35](#)

[Details of lesson 36](#)

[Details of lesson 37](#)

Day 9: 20/08/2018

Today's progress

Finish lesson 38: Pricing Section

- Implement UI for Pricing Section
- Remind of Box shadow CSS

Finish lesson 39: Join and Footer Section

- Implement UI for Join Section
- Implement UI for Footer Section
- Remind of `:before` , `:after` and `display: flex`

Finish lesson 40: Enhancements

- Make website more responsive
- Apply some effect to increase smoothness

Finish lesson 41: Testing

- See what can we improve

Finish lesson 42: Recap

- Revise what we have learnt so far

Finish lesson 43: Important Tips

- Share some important tips and advices

Thoughts

- Problem with git pushing, SSH key added but still require manually Authentication, pushing takes too much time, fail sometimes
- The course does not go into details of CSS keyframe, jQuery and jQueryUI, just mention syntaxes and some functionalities. Research on them later on.
- More stuffs to research: `flexbox` , `box-shadow` , psuedo classes CSS
- The guideline on Scroll Reveal section is outdated
- The deployment and image compressing and speed test take freaking long time

Links to work

[Details of lesson 38](#)

[Details of lesson 39](#)

[Details of lesson 40](#)

[Details of lesson 41](#)

[Details of lesson 42](#)

[Details of lesson 43](#)

Day 10: 26/08/2018

Some tips on front-end developments:

Folder structure

```
<Root directory> - index.html
                  - style: Contains CSS
                  - assets: Contains fonts
                    - fonts: Contains fonts
                    - img: Contains images
                    - scripts: Contains js files
```

Step to convert PSD to HTML and CSS

- Build html files first.
- Inspect color, font size, spacing
- Convert font-size, color, spacing to CSS
- Add animation, effects

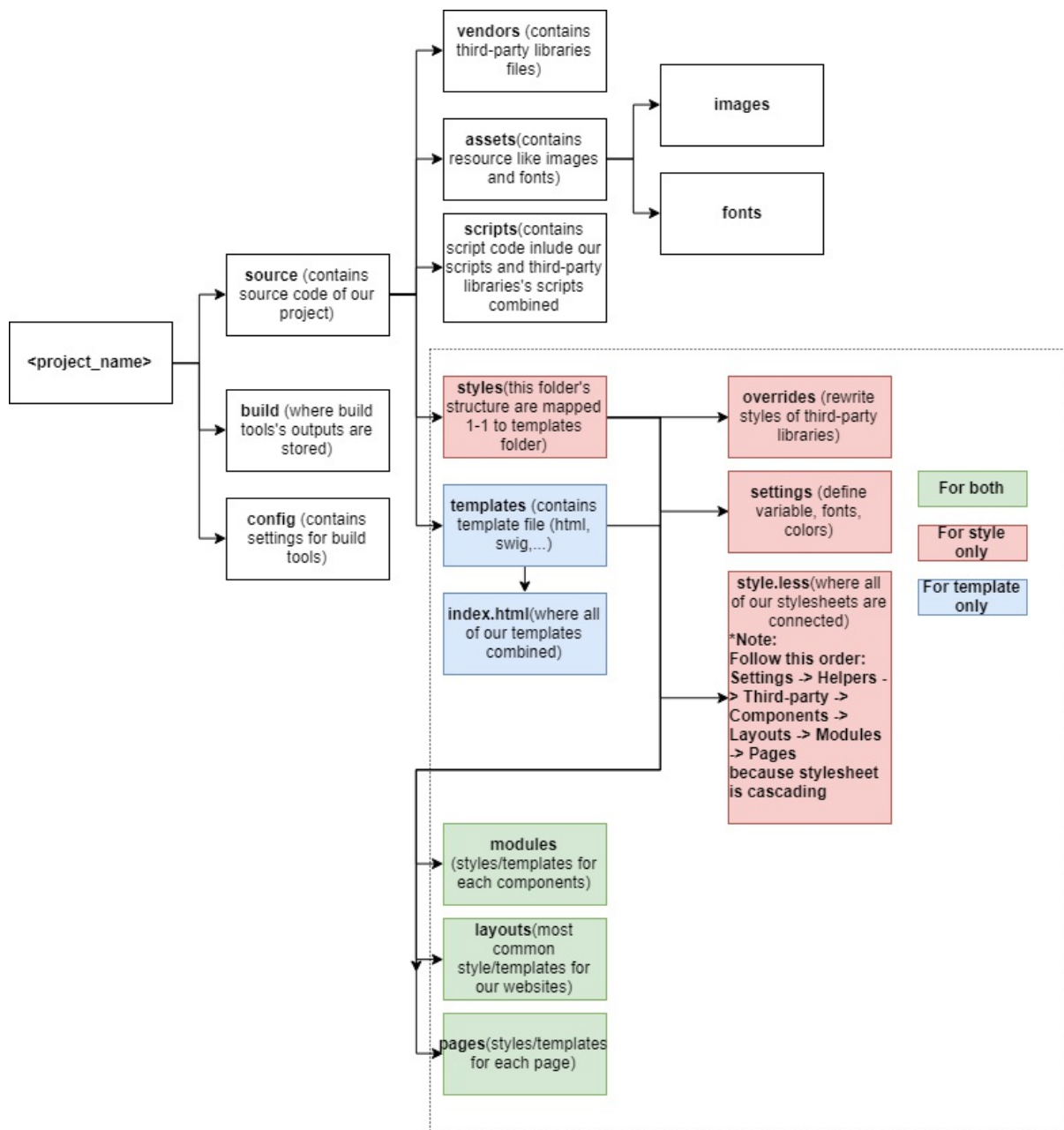
Thoughts

- Add CSS to ensure color and spacing need 1 to 1 precision.

Day 11: 29/08/2018

Config build tools and Steps to create skeleton HTML

New folder structure



Note:

The `index.js` in scripts folder should import style.less

The `style.less` should include banner, like:

/ Open Charity style /

Tips on setting up Build tools

Webpack

Should hash output filename after build to support auto clearing cache at client

Gulp

Steps to install

1. Create `gulp` folder and `gulpfile.js`
2. Install `gulp` `yarn add gulp --ignore-engines`
3. Install `require-dir`
4. Config `gulpfile.js`
5. `gulp/util.js`: for logging
6. `gulp/concat.js`: concat files
7. `gulp/gulp-size.js`: Alert file size after build

Note

Gulp's tasks naming:

For development: `scripts:vendor:compile`

For production: Add prefix `production`

Create Skeleton HTML

Prepare resource:

1. Open design file with Photoshop
2. Resize PSD file if it's too large using Image/Image Size...
3. Extract color, fonts and images and note down/save them

Connect resource to our project

With fonts

Always include all font type : oet, woff, ttf for cross-browser support

Suggest [fontsquirl](#) to generate font kit from one file type

The font kits from internet usually include demo document, use their css to quickly define fonts

With color

Use [chir.ag](#) to name color and turn colors into `less` variables

Define color class for text and background

- Text: `.text-<color_name>`
- Background: `.bg-<color_name>`

With image

Rename them to describe where they would be used in website

Naming convention: Using `_` to separate words, `__` to represent child component

Ex: Image used for item 2 of section 2: `section_1__item_2.png`

Writing HTML

Name `class` and `id` right:

With class

Follow Semantics UI: `primary button`, `facebook item`, `facebook item-1`

With ID

Use `_` to separate words and to **represent child components**: `footersocial_links``

Note

- Class and ID should be used mixed.
- Classes are used for common styling, describing component
- IDs are used for quicker queries.
- Writing HTML should avoid over thinking

Day 12: 07/09/2018

Today's progress

Perfect pixel website without resizing design file

Front-end tips and tricks

Introduce some linting tools and optimize tools

Details

Perfect pixel website without resizing design file

Scale down screensize for fitting PSD file better

Front-end tips and tricks

How to use padding and margin properly:

- Padding should be used for nesting containers
 - Margin should be used for adjusting spacing between elements
 - Margin must not be used together with position
 - Tag containing background should be put on top of its container
-

How to use `button` and `a` tag with class `button` properly:

- `a` with class `button` tags should be used for navigating
 - `button` should be used for form and action only
-

Naming convention update:

- `.list` should contain `.item`
- `.row` should contain `column`
- Avoid abbreviations to keep template semantic.

Introduce some linting tools and optimize tools

Some linting tools to be applied in near future:

- ESLint
- CSSlint
- Husky + lint-staged

Linting configuration file: `.editorconfig`

Some linting tools for reference:

- prettier
-

Optimizing tools to be applied:

- Minify CSS.
- Minify JS
- Minify HTML (experimenting)

Some Optimizing tools for reference:

- prepack.io (developing)

Day 13: 12/09/2018

Today's progress

Naming convention update

Front-end tips and tricks

Some strays on the modern web design world

Introduce some web optimization techniques

Introduce regression test

Details

Naming convention update

Vocabularies:

Classes:

`.title` (For section, for card),

`.content` (For section),

`.description` (Esp for card),

`.meta` (Additional information, use with descriptive classes like `time`, `date`, `price`, `discount`, wrapped with ``),

`.action` (For button),

`.thumbnail`

`.row > .column` ,

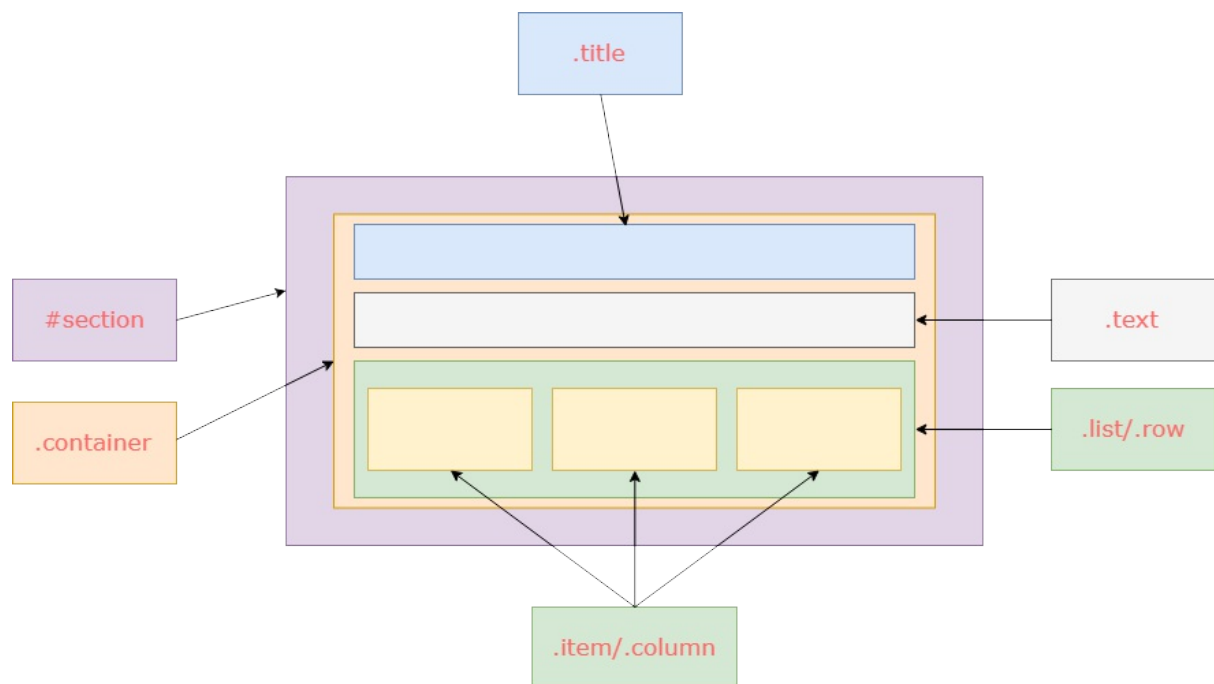
`.list > li.item`

Front-end tips and tricks

New rules:

1. Restrict on using `.container-fluid` , using `.container` and override `@container-md` , `@container-sm` , `@container-sm`
2. Using css `class` for defining fonts
3. Color and background color class pattern: `color-[color-name]` , `background-[color-name]`
4. Bootstrap `.row` s should be only applied to `.row > .column` s
5. Font's filename: "Font-Name.[ext]"
6. font-family define: 'Font Name'
7. Using CSS over JS creating animations

Template structure:



Some strays on the modern web design world

Avoid FOUT, FOIT, FOFT

[Readmore](#)

Some popular Design Systems

1. Bootstrap
2. Zurb Foundation

3. Semantic UI

States of digital websites

1. Full (Interacting)
 2. Loading (Interacting)
 3. Error
 4. Error
 5. Empty
 6. Edge cases
-

Introduce some web optimization techniques

With Javascript

1. Minify JS
2. Obfuscate JS (encode to avoiding reversing)

With CSS

1. Minify CSS
2. Critical CSS (determine some important CSSes to be applied before all CSSes are loaded to create `First meaningful paint`)
3. Remove unused CSS using

With HTML

1. Minify

With Images and fonts

1. Compress images and fonts
-

Introduce regression test

Apply regression test and its importance in frontend development

Chapter 1: Introduction + Course Essentials

Why this Course and Course plan

Overview:

Understand the purpose of taking this course and give out the course plan

Details:

- Top 5 reasons:
 1. Technology are introduced along with practical projects
 2. Step by step lead you from exporting elements of Photoshop Design till you Deliver a full working responsive production website to client (the combination of design and coding is very usual in big companies)
 3. Concern testing and optimization.
 4. Provide three different stunning website in one course with different ideas and carefully chosen design.
 5. Simplify the knowledges of technologies used and combine them.
- The testing includes:
 - Cross browser test
 - Markup validation service
 - Speed and performance test
- Enhancements includes:
 - Responsive test
 - Compressing images
- Course planning:
 - 1.Adobe Photoshop:
 - How to use to export elements to psd files
 - How to get the colors and fonts of your website
 - Tools that front-end developers/designer should know
 - How to control layers and useful shortcuts
 - 2.Bootstrap 4:
 - Introduce Bootstrap 4 grid system by examples
 - How to use components like navbar, cards, forms, dropdown, scroll spy and more
 - Further explanation of the most common bootstrap 4 classes
 - 3.CSS Preprocessors SASS and LESS
 - Full explanation about preprocessors by examples
 - Definition and why use them ?
 - Different between SASS and LESS
 - How to install
 - Features of SASS and LESS by examples
 - 4.Trello Project Manager
 - What is Trello

- Why we use it
- How we can use it to organize our project steps and keep the clients aware of the project progress

5.The Open Charity website

- How to prepare website files
- Write clean and reusable code with comments for every section
- Use LESS in our style sheet
- Use some of the bootstrap components
- How to make scroll spy as well as smooth scroll
- Write some jQuery animations
- User a plugin called owl slider to make two different sliders and how to customize your slider easily
- Use animated.css to animate some elements
- Check the responsive plus optimize the website speed and performance and run three different tests on website

6.The 404-penguins page

- Learn how to make advanced css keyframes and animations plus positioning

7.Merkury Website

- Go over some of subjects that we have learned in the past projects
- Learn how to make advanced animations with css keyframes and jQuery
- Use bootstrap 4 utility classes
- Use CSS before and after selectors
- How to combine between bootstrap 4 cards dropdown and customize them
- Learn how to use jQuery UI library to apply advanced events on elements
- Learn how to use scroll reveal plugin to animate elements while scrolling
- Finding solutions and workarounds and more
- Check responsive and optimize website performance and speed along with running test on website

Bookmarks: None

Editor

Overview:

Introduce VS Code Editor

Details:

- Customize setting: File/Preference/Settings a tab appear to let you put on your own style
- VS Code comes with built-in terminal, (expand from the bottom)
- Install the following package for compiling preprocessors SASS and LESS
 1. Ctrl + Shift + X to open Extensions
 2. Search and install Easy LESS(compile LESS to CSS on save), Live SASS compiler(compile SASS or SCSS to CSS, come with live server to support hot reloading), Sass (Sass syntax highlighting, autocomplete and snippets)
- Install Dracula Theme through Extensions.

Bookmarks: [Download](#) and [Documentation](#) VSCode

Adobe Photoshop Essentials

Overview:

Details:

- Image Exporting program that help to convert PSD to HTML and CSS: Figma, Gravit, Photoshop, ...
- Explain some common used tools of Photoshop with examples
- The left sidebar
 - **Select tool/Move tool(V)**: Select elements and export it
 - **Marquee tool(M)**: Makes rectangular, elliptical, single row and single column selections
 - **Crop tool(C)**: Trim, straighten, and change the perspective of images
 - **Eyedropper tool(I)**: Inspect color
 - **Horizontal Type tool(T)**: Create text, edit or delete it, get font-size, font-family
 - **Hand tool(H)**: Move image
 - **Zoom tool(H)**: Zoom in, Zoom out
- Some useful shortcuts:
 - **Zoom(Alt + Scroll)**: Zoom in and out
 - **Step Back(Ctrl + Alt + Z)**: Traverse history
 - More details in **Bookmarks**
- Change unit to pixels: Edit/Preference/General or Ctrl + K then choose Units and Rulers. Change the Rulers.
- Extract some components from template:
 - Single component
 1. Create new file: Ctrl N
 2. Use Move Tool to drag and drop the component onto that files
 3. Make background transparent
 4. User crop tool to extract the component then export to PNG
 - Multiple component
 1. Hold Ctrl select multiple component
 2. Click `Create new group` under Layers panel
 3. Export as PNG
- The usage of Zoom tool, Text tool, and Hand tool are pretty straight-forward
- History panel: Open history panel by click on Window/History.

Bookmarks: [60 useful shortcuts in Photoshop](#)

[Explain photoshop tools](#)

Bootstrap 4

Overview:

Discuss some of the neccessary and most used bootstrap components and utilities

Details:

About library itself

Bootstrap is an open source toolkit for developing with HTML, CSS and Javascript

Bootstrap includes HTML and CSS based design templates for typographic, form buttons, table, navigation, model, image carousels and many others as well as optional javascript plugins

Bootstrap is used to build responsive mobile first projects on the web with world's most popular front-end component library

Why use Bootstrap ?

1. Easy to Use
2. Responsiveness
3. The Speed of the Development
4. Customizable (open-source)
5. Consistency
6. Big community, great support
7. Simple Integration
8. Grid system

Explain more in the [Bookmarks](#)

Most important to learn about bootstrap

Grid System

- Grid System use a series of container **row** and **column** to layout and align content, it's built with **flexbox** and fully responsive
- Flexbox was designed as one dimensional layout model and as a method that could offer space distribution between items in an interface
- Bootstrap grid system consists of `container`, `container fluid` (span the entire width of viewport), `rows` and `column`

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
Max container width	None (auto)	540px	720px	960px	1140px
Class prefix	<code>.col-</code>	<code>.col-sm-</code>	<code>.col-md-</code>	<code>.col-lg-</code>	<code>.col-xl-</code>
# of columns	12				
Gutter width	30px (15px on each side of a column)				
Nestable	Yes				
Column ordering	Yes				

[Example here](#)

Components

- Button
- Classes: `btn btn-primary` `btn btn-secondary` `btn btn-success` `btn btn-danger` `btn btn-warning` `btn btn-info` `btn btn-light` `btn btn-dark`
- [Visual Example](#)
- Card
- Classes: `card` > `card-img-top` `card-body` `card-title` `card-text`
- [Visual Example](#)
- Dropdown
- Classes: `dropdown` `dropdown-toggle` `dropdown-menu` `dropdown-item`
- [Visual Example](#)

Important components: cards, drop down, forms, nav bar, scrollbar

- Form

- 1. Custom Form

- Classes: `form-group` `form-control`
 - [Visual Example](#)

- 2. Inline Form

- Classes: `form-inline` `form-group` `form-control`
 - [Visual Example](#) **Bookmarks:**

- 3. **Note:** `<input>` and `<label>` should be put inside `form-group`

- 4. **Note:** You will notice some mysterious classes like `mb-2` `mx-sm-3`, they are spacing classes (utilities class). Check it out in Bookmarks

- 5. **Note:** Form in Bootstrap has many variants, see Bookmarks for more

- Navbar

- Some features:

- Navbars and their contents are fluid by default. Use optional containers to limit their horizontal width.
 - Use our spacing and flex utility classes for controlling spacing and alignment within navbars.
 - Navbars require a wrapping `.navbar` with `.navbar-expand{-sm|-md|-lg|-xl}` for responsive collapsing and color scheme classes.

- Supported content: `.navbar-brand` `.navbar-nav` `.navbar-toggler` `.form-inline` `.navbar-text` `.collapse.navbar-collapse` (Detail in Bookmarks)

- [Visual Example](#)

- Scrollspy

- Features: Automatically update Bootstrap navigation or list group components based on scroll position to indicate which link is currently active in the viewport.

- [Visual Example](#)

- Utilities ([Link to details of Bootstrap Utilities in Bookmarks](#))

- 1. Colors

- Classes: `*-primary` `*-secondary` `*-success` `*-danger` `*-warning` `*-info` `*-light` `*-dark` `*-white`
 - **Note** Replace `*` with `text` or `bg`
 - [Visual Example](#)

- 2. Float

- Features: Works like its name suggest
 - Classes: `float-left` `float-right` `float-none`

- 3. Position

- Features: An alternative to `position` CSS property
 - Classes: `position-static/relative/absolute/fixed/sticky`

- 4. Shadow

- Features: An alternative to `box-shadow` CSS property
 - Classes: `shadow` `shadow-none/sm/lg`

- 5. Spacing

- If you got here, you may have checked out the Spacing reference link in the Bookmarks section, so i

won't recall.

6.Text

- Features: Documentation and examples for common text utilities to control alignment, wrapping, weight, and more.
- Classes:
 - Alignment with `text-left` `text-right` `text-center` `text-justify`
 - Text wrapping and overflow with `text-nowrap` `text-truncate`
 - Text transform with `text-lowercase` `text-uppercase` `text-capitalize`
 - Font weight and italics with `font-weight-bold` `font-weight-normal` `font-weight-light` `font-italic`

7.Vertical Alignment

- Features: Easily change the vertical alignment of inline, inline-block, inline-table, and table cell elements.
- Classes: `align-baseline` `align-top` `align-middle` `align-bottom` `align-text-bottom` `align-text-top`
- **Note** These classes are only applied for `inline` and `inline-block` elements

Bookmarks:

[Bootstrap Quiz](#)

[Why use Bootstrap for amazing web design](#)

[CSS selector with regex](#)

[Spacing classes Bootstrap](#)

[Bootstrap Forms](#)

[Navbar Supported content](#)

[Bootstrap Utilities](#)

Preprocessors SASS vs LESS

Overview:

Find out what is SASS and LESS, why use them and gave some examples

Details:

What is Preprocessors ?

- It's basically a scripting language that extends CSS and compiled into regular CSS.

Why Go for CSS Preprocessors

- CSS is primitive and incomplete. Building a function, reusing a definition or inheritance are hard to achieve. For bigger projects, or complex systems, maintenance is a very big problem.
- CSS preprocessor is DRY(Don't Repeat Yourself), Not WET(Write It Twice)
- Aids in Modularization and Portability
- Enjoy the Power of Code Reuse
- More Organized
- Easy to Write
- Easy to Setup and Maintain

Difference between SASS and LESS

SASS	LESS
Built on Ruby	Built on Javascript
	Better Error messenger
Documentation is much more of a knowledge-based wiki sheet	More User-friendly documentation

How to install

With SASS: yarn global add sass

With LESS: yarn global add less

- Install compiler
- VSCode: Install Easy Less, Live Sass Compiler
- Atom: Install `yarn global add node-sass` , `apm install less-autocompile sass-autocompile`

You may be confused

Sass vs SCSS

Sass has 2 syntaxes available:

- Sass itself (Syntactically Awesome StyleSheets) in .sass files
- SCSS (Sassy CSS) in .scss files, which is something halfway between regular CSS and Sass

Remember that:

- Sass is the name of the preprocessor
- SCSS is easier to learn
- All resources on the internet mention Sass, not SCSS
- All features are available for both syntaxes everything in SCSS is available in Sass
- We're actually going to write SCSS but still call it Sass.

Find out more in the Bookmarks

Features

Link to SASS examples: [SASS Example](#)

Link to LESS examples: [LESS Example](#)

Variables

- Variables were all time wanted feature for CSS. Every developer, wanted to define a base color and use it all over the CSS file, in stead of writing the hex or named color in a property each time
- Variables in LESS start with @ and those in SASS start with \$, value of variable is assigned with semicolon :-

Mixins

- The idea is you put together some set of css rules to create effect of your own, much like a reuseable css class, it resembles function in other languages

Nesting

- CSS lacks visual hierarchy while working with child selectors.
- Nesting provides a visual hierarchy as in the HTML and increases the readability.
- **Note:** In some cases, nesting causes oversizing the selectors, so use it wisely.

Extends

- Extends are useful for sharing a generic definition with selectors rather than copying it in
- SASS extends every instance of extended selector that includes its child selectors and inherited properties
- With LESS you can choose to extend only the main instance or all by `extend(<className> all)`

Imports

- Allow you to split one large file into small pieces

There are some other features like Color Operation, If/else Statements, Loops, Math but not covered in the course.

Checkout the Bookmarks for all of them

Bookmarks:

[Sass and Less Quiz](#)

[Document from course](#)

[Sass, SCSS and Less](#)

[More Feature of Sass and Less](#)

Trello The Project Manager

Overview:

- What is Trello and why it's helpful
- How to use

Details:

What is Trello

Trello is a Project Management Software that use cards to organize tasks and visualize purpose.

Why use Trello ?

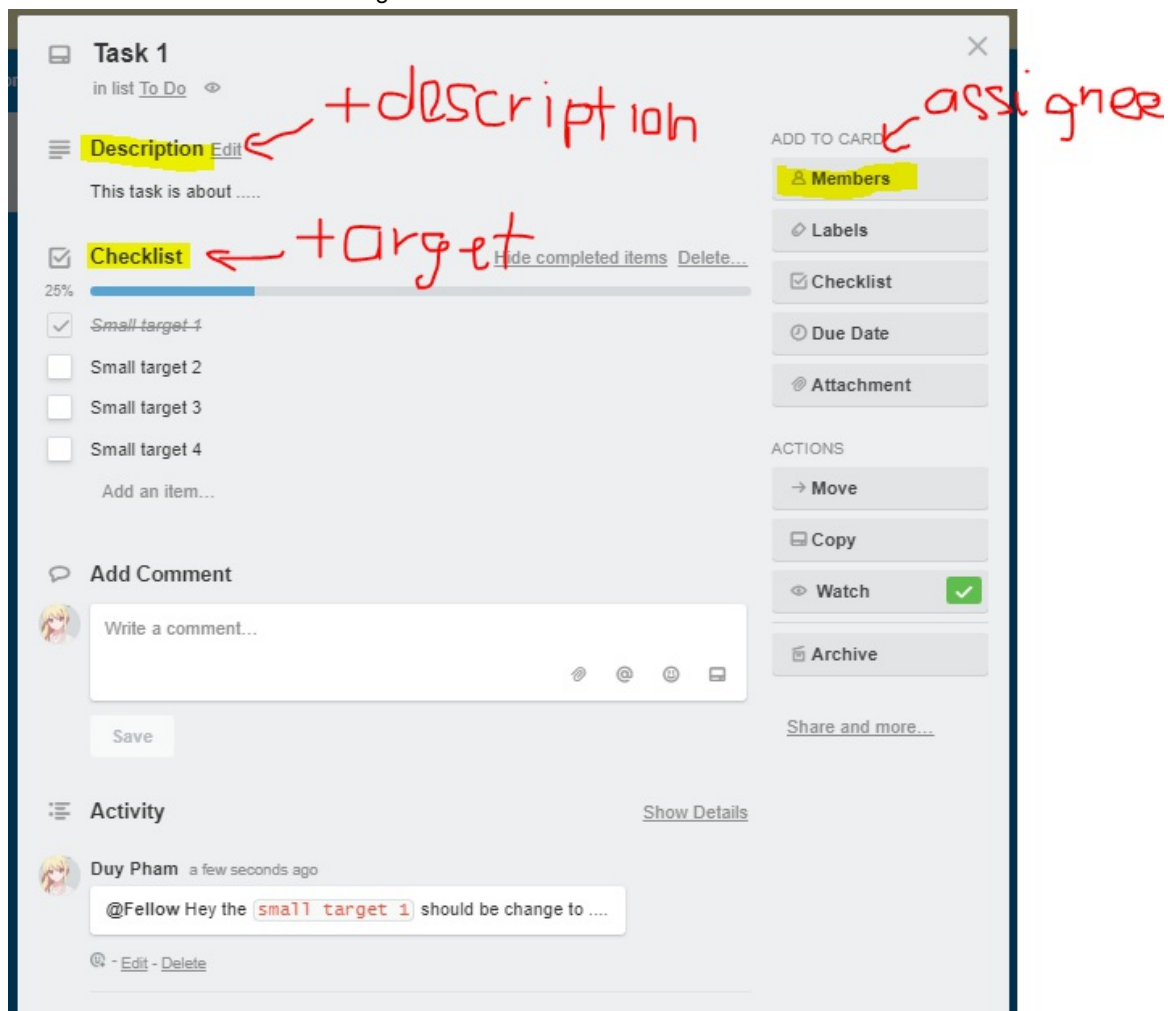
- Trello can be very helpful if you have more than one project at the same time and you want to organize the time between projects
- More than one person can work at the board and you can assign task to members
- Keep clients aware of your project progress and the due date
- The details of Trello will be explained on real project

How to use

1. Go to [Trello](#)
2. Sign up a free account and login
3. Rename the board (to the name of your project may be)
4. Add some list of task



5. Create a card to describe and delegate tasks to members



Bookmarks:

[Trello Document](#)

Chapter 2: OpenCharity Website

OpenCharity Overview

Overview:

An overview on the website that we are going to clone

- What components is it made up of
- Point out some techniques and features used or built.

Details:

Features

- Scrollspy
- Blink button effect
- Slider with mouse drag
- Responsiveness

Bookmarks:

[A look on the prototype website](#)

Prepare Files

Overview:

- Build project folder structure
- Convert PSD file to some necessary assets
- Integrate Bootstrap 4, jQuery and Popper.js

Details:

Step by Step

1. Create new project folder with structure below



2. Find and download the following fonts then save them to assets/style/fonts : Museosans 500 OpenSans
OpenSans semibold Museosans rounded 300
3. Download the OC.PSD file from this [link](#)
4. Open file with Photoshop and export necessary components to PNG, details in here [Trello task](#)
5. Inspect colors from PSD file and note them down for later use.
6. Download Bootstrap 4 and save bootstrap.min.js and bootstrap.min.css in "assets/style/js" and

"assets/style/js"

7. [Download](#) and save jquery-3.3.1.slim.min.js in "assets/style/js"
8. [Download](#) and save popper.min.js in "assets/style/js"
9. Go to [Bootstrap Starter Template](#) and copy paste its content to index.html

Now we are ready

Bookmarks:

Link to GitHub Project: [OpenCharity](#)

Linking Files Implementing Style sheet

Overview:

Link CSS and JS files to index.html

Implement CSS of our own with less

Details:

Features:

Using LESS

Use variables for code reuse and function darken().

CSS Reset

Is a short, often compressed (minified) set of CSS rules that resets the styling of all HTML elements to a consistent baseline.

Why use CSS Reset ?

Every browser has its own default 'user agent' stylesheet, that it uses to make unstyled websites appear more legible. Using a CSS Reset, CSS authors can force every browser to have all its styles reset to null, thus avoiding cross-browser differences as much as possible.

Style Sheet Implementation

- Declare some variables that hold values of mainly-used colors and font-families
- CSS reset
- Customize components that will be used like headers, buttons, list, anchors.

Bookmarks:

Link to GitHub Project: [OpenCharity](#)

Navbar Part 1

Overview:

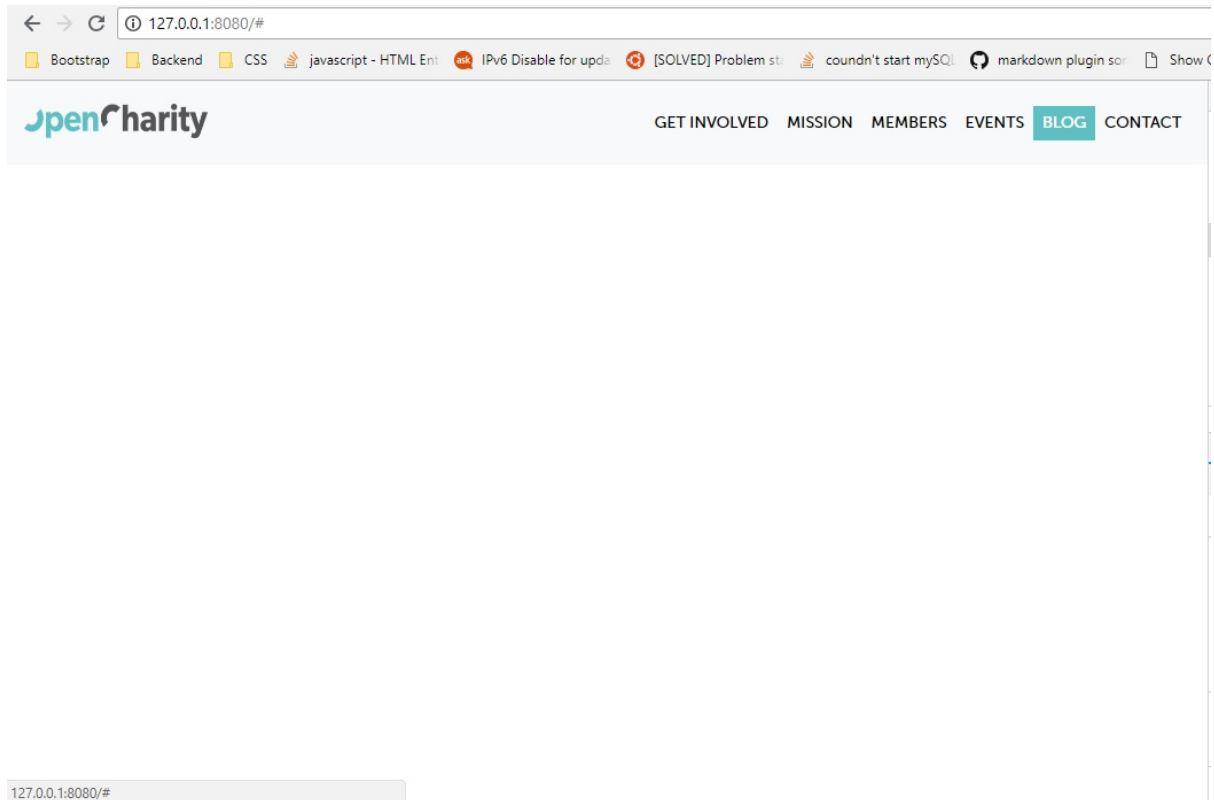
Implement styles for Navigation Bar

Details:

- Display favicon
- Display Open Charity logo
- Implement navbar, navbar links and navbar items styles

- Add padding
- Add hover effect
- Add transition
- Change font
- Change background color

The Navbar now look like this



Bookmarks:

Link to GitHub Project: [OpenCharity](#)

Navbar Part 2

Overview:

Implement event-handlers for Navigation bar

Details:

Effect implemented

- Close Responsive menu when a link is clicked
- Activate scrollspy to add active class to navbar items on scroll
- On scroll down if the offset is higher than 50px the navbar shrink

Note

`@media` rule CSS: The `@media` rule is used in media queries to apply different styles for different media types/devices.

Media queries can be used to check many things, such as:

- width and height of the viewport
- width and height of the device
- orientation (is the tablet/phone in landscape or portrait mode?)
- resolution

Details about syntax and usage are in Bookmarks

Bookmarks:

Link to GitHub Project: [OpenCharity](#)

[@media rule in CSS](#)

Header Part 1

Overview:

Implement page header sections

Details:

Components implemented

- Header with centered inspiration texts
- Event introduction and schedule section
- Register button

Note

- Can use the `Text tool` of Photoshop to extract text from PSD file

Bookmarks:

Link to GitHub Project: [OpenCharity](#)

Header part 2

Overview:

Finish page header sections

Details:

Components implemented

- Add background image for header
- Change background-color footer
- Add border-bottom footer
- Reposition event detail and `Register` button
- Change color and font of texts

Note

- You may confuse about background css properties. Read more in the Bookmarks.

Bookmarks:

Link to GitHub Project: [OpenCharity](#)

Get involved section

Overview:

Implement UI for get-involved section

Details:

Components implemented

- Add Group Logos, Sologans, and Intro

Note

Differences between inline elements and block-inline elements

Elements with `display:inline-block` are like `display:inline` elements, but they can have a width and a height. That means that you can use an inline-block element as a block while flowing it within text or other elements.

Difference of supported styles as summary:

- inline: only margin-left, margin-right, padding-left, padding-right
- inline-block: margin, padding, height, width

Bookmarks:

Link to GitHub Project: [OpenCharity](#)

[Inline block and inline elements](#)

Mission section

Overview:

Implement UI for Mission Section

Details:

Components implemented

Section with `id = mission` containing:

- Three col represent three mission
- Cols contain a card with icon, title and content

Note

`border-radius` CSS property

The border-radius property defines the radius of the element's corners.

This property allows you to add rounded corners to elements!

This property can have from one to four values. However there are other rules, see in the Bookmarks

Bookmarks:

Link to GitHub Project: [OpenCharity](#)

Members section

Overview:

Install Owl Carousel 2

Implement UI for Member Section

Details:

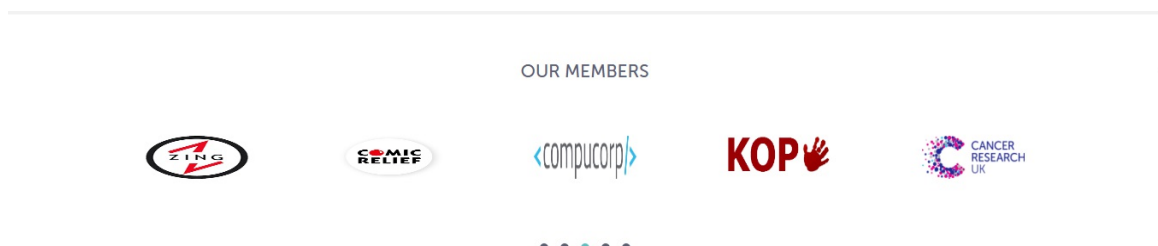
Implementation

Owl Carousel 2

- What is it ?
- Owl Carousel is a touch enabled jQuery plugin that lets you create a beautiful responsive carousel slider.
- Why use Owl Carousel 2 over Bootstrap Carousel ?
 - Fully Customisable: Over 60 options. Easy for novice users and even more powerful for advanced developers.
 - Touch and Drag Support: Designed specially to boost mobile browsing experience. Mouse drag works great on desktop too!
 - Fully Responsive: Almost all options are responsive and include very intuitive breakpoints settings.
 - Modern Browsers: Owl uses hardware acceleration with CSS3 Translate3d transitions. Its fast and works like a charm!
 - Zombie Browsers: CSS2 fallback supported for older browser.
 - Modules and Plugins: Owl Carousel supports plugin modular structure. Therefore, you can detach plugins that you won't use on your project or create new ones that fit your needs
- Steps to Install
 - Download Owl Carousel 2
 - Move to dist folder. Copy `owl.carousel.min.js` to `/assets/style/js`
 - Move to dist/assets folder. Copy `owl.theme.default.min.css` `owl.carousel.min.css` to `/assets/style/css`
- How to used
 - Put class `owl-carousel` and `owl-theme` on the `div` where you want the carousel to appear
 - Then put on images inside as carousel items
- JavaScript
 - Call Carousel constructor with syntax: `$('<div_id>').owlCarousel({`

```
<code><div_id>'.owlCarousel({  
  <Object containing setting properties>  
})</code>
```

- Result



Note

Checkout the list of options for Additional Carousel settings in the Bookmarks.

Bookmarks:

Link to GitHub Project: [OpenCharity](#)

[Carousel Settings](#)

Event section

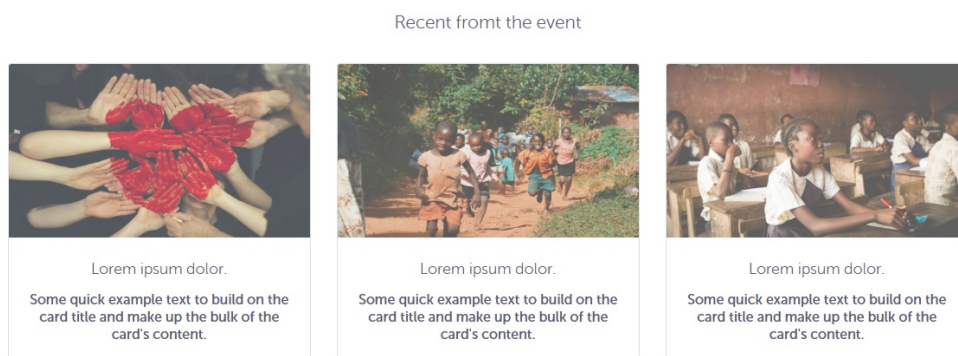
Overview:

Implement UI for Event Section

Details:

Implementation

- Using Bootstrap `card` to make three columns containing three cards describing three recent events
- Result



Note

Bookmarks:

Link to GitHub Project: [OpenCharity](#)

Blog section

Overview:

Implement UI for Blog Section

Details:

Implementation

- Using Owl Carousel 2 to create a slider with 4 blogs
- Result

```
![[CarouselResult]](./blogs.PNG)
```

Note

Bookmarks:

Link to GitHub Project: [OpenCharity](#)

Contact Section and Footer

Overview:

Implement UI for Contactc Section Implement UI for Footer

Details:

Implementation

- Implement Contact form with input fields `Name` , `Email` , and `Message` textarea
- Result

```
![[CarouselResult]](./contact-form.PNG)
```

- Implement Footer with social sharing buttons `Facebook` , `Twitter` and `Google Plus`
- Result

f t G+
This site was built as a collaboration between **Manifesto Digital** and **Compucorp**

Note

- Always structure css similar to HTML to minimize code repetition and narrow down css effects range.

Bookmarks:

Link to GitHub Project: [OpenCharity](#)

Enhancements

Overview:

Add animation, fix responsive bugs, make changes to UI

Details:

Implementation

- Integrate Animate.css library
 - Go to <https://daneden.github.io/animate.css/>
 - Click on `Download Animate.css`
 - Save content as `animate.css` to following path: `./assets/style/css/animate.css`
- Add flash animation to `Slack Group` button
- Active Scrollspy to `navbar`
- Smooth Scrolling with jQuery
- Add fade in effect to `Mission Section`
- Change letter-spacing of Event Footer for better mobile look
 - Before

```
![[Before]](./before-header.PNG)
```

- After

```
![[Ater]](./header-after.PNG)
```

Note

Bookmarks:

Link to GitHub Project: [OpenCharity](#)

Testing

Overview:

Cover some remaining issues about UI, animation Increase website performance Do some testing

Details:

Issues Spotted

Compressing Image

Steps

- Go to <https://imagecompressor.com/>
- Upload all project images and wait for image compressing to complete
- Download them all and replace old images with new ones

Cross-browser Testing

Try out website on different browser and make sure everything works fine

Animation

Add `fade in up` animation to header

With Mobile devices

Remove `fade in` animation from Mission Section while on mobile cuz mobile does not have hover effect

Put website online

Steps

- Go to <https://app.netlify.com/drop>
- Drag and Drop your project folder into white box
- Wait for uploading and enjoy.

[My website](#)

W3C markup validation service

What is ?

- The Markup Validator is a free service by W3C that helps check the validity of Web documents.
- Most Web documents are written using markup languages, such as HTML or XHTML. These languages are defined by technical specifications, which usually include a machine-readable formal grammar (and vocabulary). The act of checking a document against these constraints is called validation, and this is what the Markup Validator does

How to use

- Go to <https://validator.w3.org/about.html>
- Paste your website url on the input
- Click `Check` and wait for result

Website Speed Test

- Go to <https://tools.pingdom.com>
- Paste website url into the input
- Click `Start Test` and wait for result

Note

Bookmarks:

Link to GitHub Project: [OpenCharity](#)

Recap

Overview:

Review what we have built so far

Details:

- How we can export images from PSD file as well as getting colors and fonts for our website
- Then moving to setting our variables and style sheet
- Learned how to nest our code in `less` so it's more readable, understandable.
- Learned how to use Bootstrap 4 and its components plus adding animation to our project with `jQuery` or `Animate.css`
- Learned how to organize our project by applying our `Trello` steps that we had written before starting
- Learned how to write clean code with comment
- Dealt with responsive part so our website is available on all devices
- Increase website performance and run the markup and speed test

Bookmarks:

Link to GitHub Project: [OpenCharity](#)

Chapter 3: 404 Penguins Page

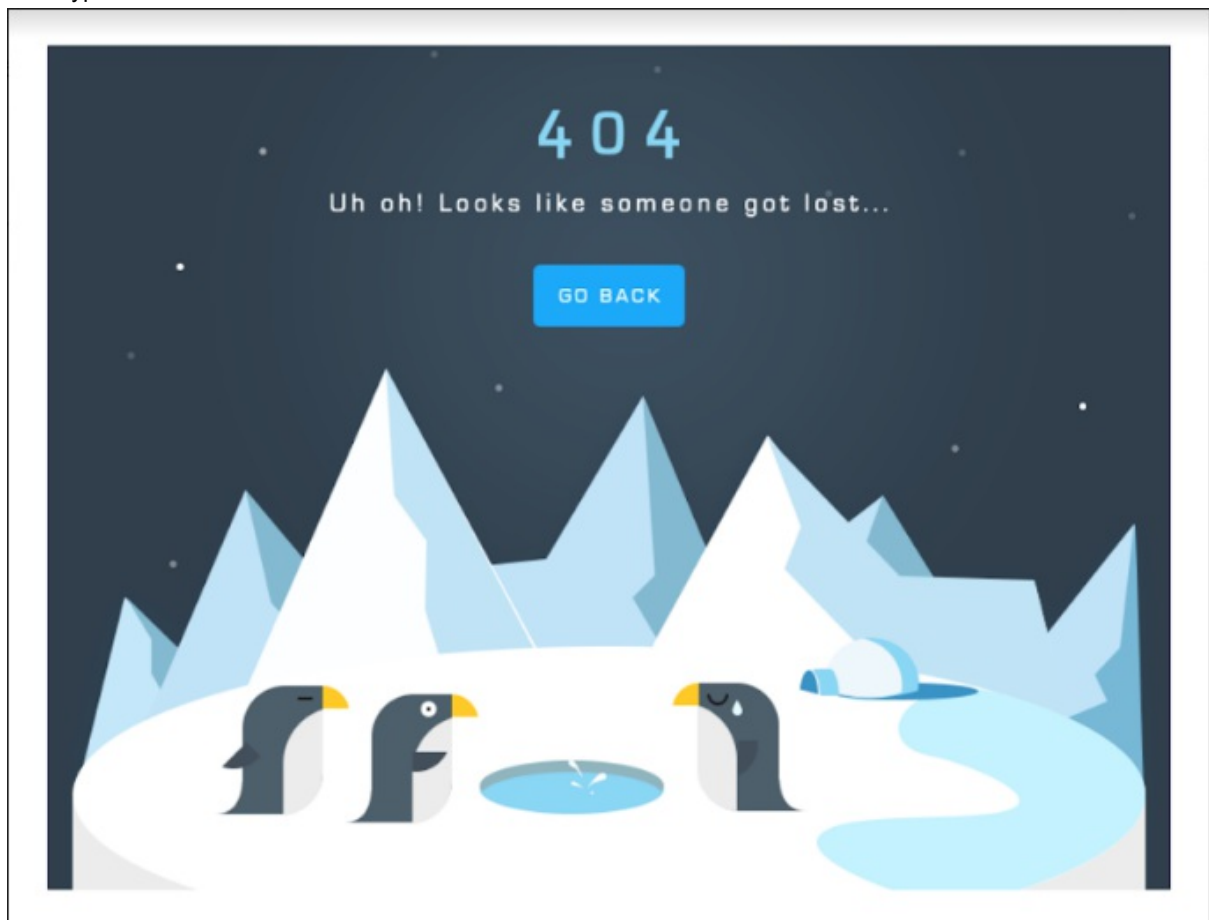
404 Overview

Overview

An overlook on what we gonna build

Details

Prototype



Target

- Create snowfall animation
- Make image stick to the page bottom no matter screen size

Components

- 404 logo
- Error message
- `Go back` button
- Sticky background image
- Snowfall animation

Bookmarks

Prepare Files

Overview

Bootstrap the project

Details

What we gonna use

- `bootstrap.min.css`
- CSS keyframe

Building folder structure

The folder structure is pretty similar to `OpenCharity` project



Bootstrapping steps

- Go to <https://drive.google.com/drive/folders/1WAn16FJ0s-6j1DiR2-LcJ9HAQoPIIBGY> to download PSD file and save it to project
- Go to <https://www.dafontfree.net/freefonts-eurostile-f484.htm> to download eurostile font
 - Use photoshop to extract necessary images.
 - One penguin for favicon
 - Three penguins with iceberg as background
- Note down colors to be used.
- Put `bootstrap.min.css` into `.assets/style/css`
- Run following commands `git init` , `echo > README.md` , `git add .` , `git commit -m "Bootstrap project"`

Bookmarks

[Eurostile font](#)

[PSD File](#)

Start code

Overview

Implement UI Styling Page Add animation

Details

Components implemented

- One wrapper container containing

- Header: 404 with response text and `GO BACK` button
- One image as background
- One `div` to handle the animation

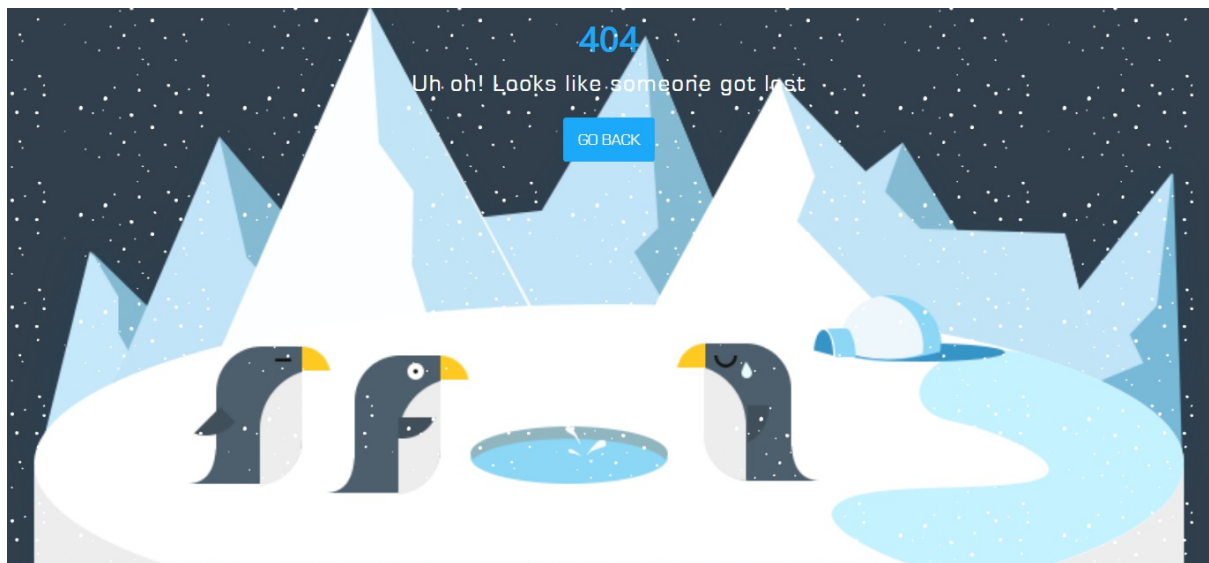
Styling

Mainly used colors and fonts

@gray_color: #313f4c; @blue_color: #1ca9f9; @white_color: #ffffff; @Eurostile: 'Eurostile';

Animation was created using CSS `@keyframe`. It's a long explanation. Check out the Bookmarks

Result



Bookmarks

[CSS keyframe](#)

Link to GitHub project [404 Penguins Page](#)

404 Recap

Overview

Advices on project

Details

- If you fail try again and again
- Should not add animation to every section cuz it could be annoying
- Mention the final project

Bookmarks

Link to GitHub project [404 Penguins Page](#)

Chapter 4: Merkury Website

Merkury Overview

Overview

Discuss on what are we going to build

What will we learn along the project

And some small reminders

Details

What are we building

An introductory website of the merkury dashboard which displays:

- The important features
- The workflow
- The powerful design of the Merkury dashboard

What are we learning

Making powerful animation by CSS and positioning elements

Deal with two different plugins: `scroll reveal` and `jQueryUI`

Components to implement

The Navbar

- Apply transition effect
- Apply Scrollspy
- Collapse Navbar when item clicked by jQuery

The Header

- Chart animation in the background
- A title and a subtitle
- A `Get Started` button with a nice hover effect
- An image display between header and features section

Features Section

First Part

- Images represent features of the dashboard with cool over effect
- A short description text with `See more` button below

Second Part

- On the left, we have title and some text
- On the right side, we have image with the fade-in animation

Drag and Drop Section

- On the right, a title with some text and two navigation button

- On the left, we have customize drop down button, allow drag and drop item

Special Section

- Title and some text
- Running line effect when hover
- Infinite floating effect on the image

Pricing Section

- Three Bootstrap card with fade-up-in effect with different delay

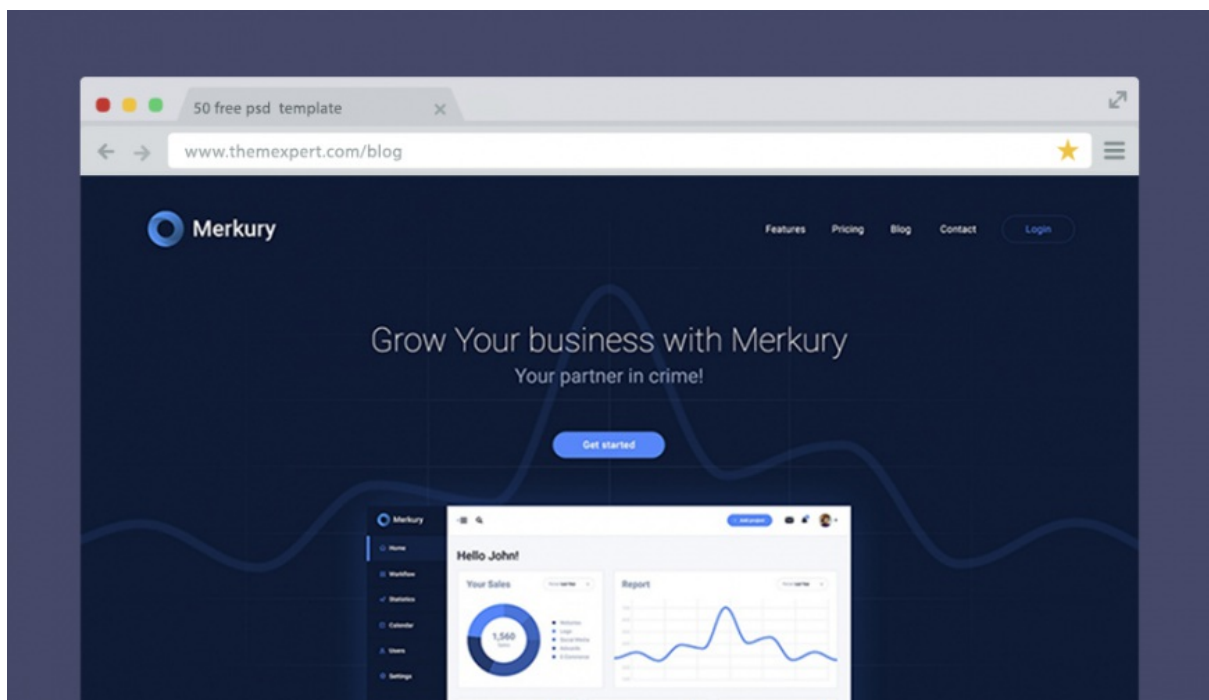
Join Section

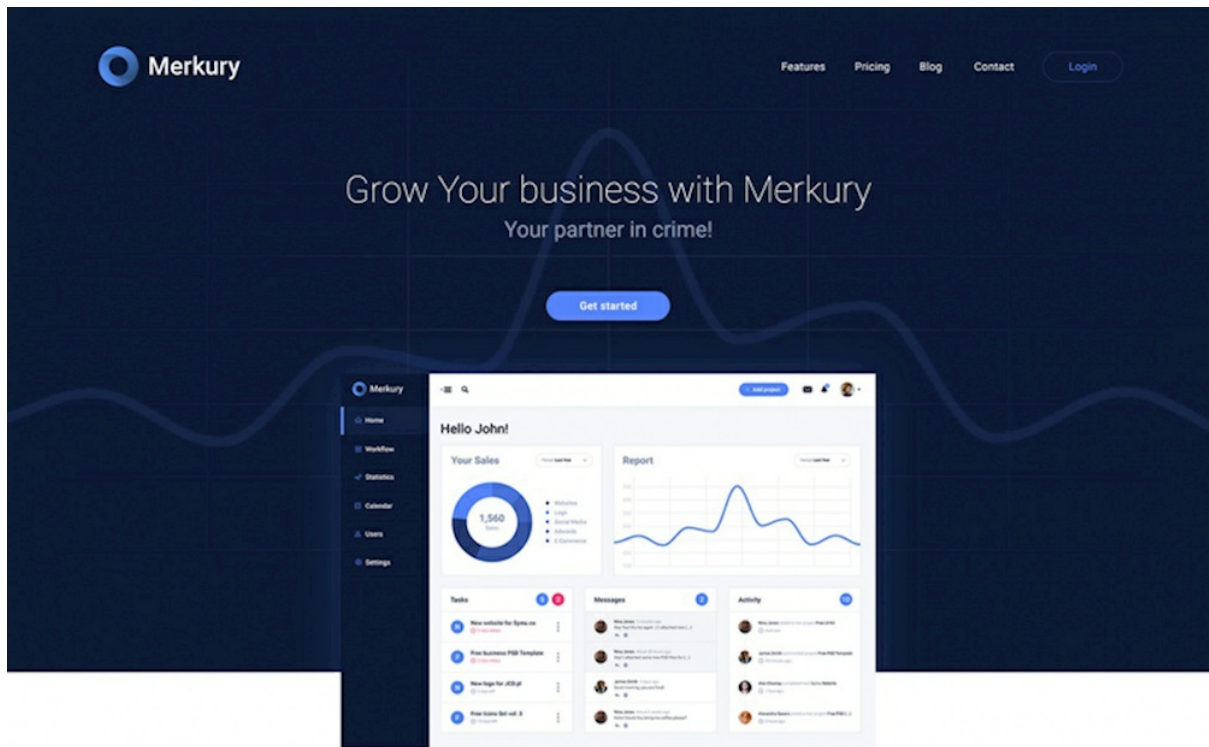
- A text with `Join now!` and separate line

Footer Section

- All right reserved and social buttons

Some visual images





Manage Your Workflow

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

[See more](#)



Analytics & Insights

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

[See more](#)



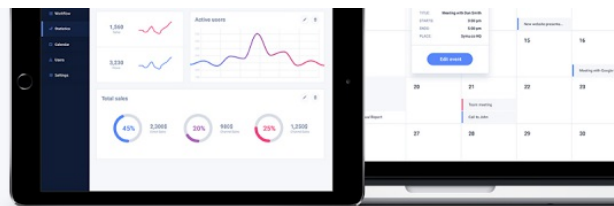
Organize Your Deadlines

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

[See more](#)

ut aliquip ex ea commodo consequat.

- ☒ Lorem ipsum dolor sit amet consectetur
- ☒ Ut enim ad minim veniam quis nostrud



In Progress (3)

Completed (2)

N

New logo for Apple

1 day left

D

Daily UI Kit

5 days left

B

Business Cards

2 days delays

F

Free PSD Template vol. 1

Completed

I

Iconset vol. 1

Completed

Drop here

Drag & Drop

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Note

Our website will be mobile first, which mean it have to fit any devices

And never forget the Testing part

Bookmarks

None

Prepare Files

Overview

Build folder structure

Extract images and colors from PSD

Details

Folder structure

Similar to OpenCharity folder structure



Colors used

dark-blue-color: #0e1a35;

light-blue-color: #5584ff;

light-grey-color: #8492af;

black-color: #000000;

white-color: #ffffff;

Fonts used

Roboto-regular-font Roboto-bold-font Roboto-thin Roboto-medium Montserrat-regular Montserrat-bold Font-awesome

Include libraries

Bootstrap

- Download `bootstrap.min.css` and `bootstrap.min.js` from [Bootstrap Download Link](#)
- Save them into `./assets/style/css/` and `./assets/style/js/`

jQuery

- Go to [jQuery Download](#) and save it to `./assets/style/js/`

Popper.js

- Go to [Popper Download](#) and save it to `./assets/style/js/`

Bookmarks

None

Linking Files

Overview

Link image and library with index.html

Apply some custom CSS

Details

Linking Files

The index html should appear like below

Custom CSS

- Define `fontface s`
- Assign colors and fonts to variables
- Copy General Reset CSS code from Open Charity project into `style.less`
- Customize some tag with background-color, margin and padding

Bookmarks

Link to [GitHub Project](#)

Navbar Part 1

Overview

Implement styles for Navigation Bar

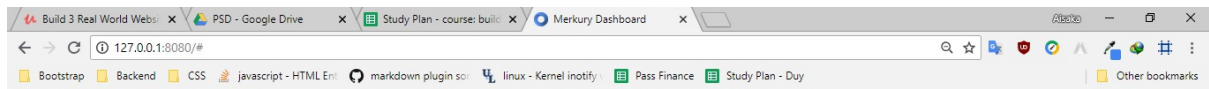
Details

Implementation

- Display favicon
- Display Merkury logo
- Implement navbar, navbar links and navbar items styles
 - Add padding
 - Add hover effect
 - Add transition
 - Change font-family
 - Change background color

Result

The background of navbar is transparent at present because it will inherit the website background later on



Drag-Drop

Login

Bookmarks

Link to [GitHub Project](#)

Navbar Part 2

Overview:

Add some enhancements to make our navbar more interactive

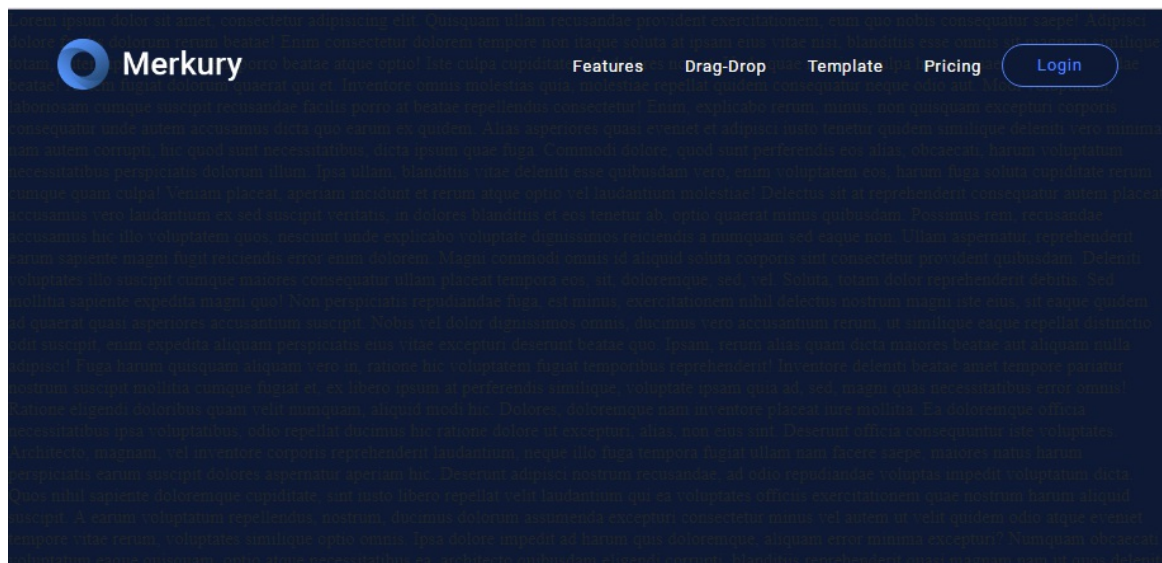
Details:

Effect implemented

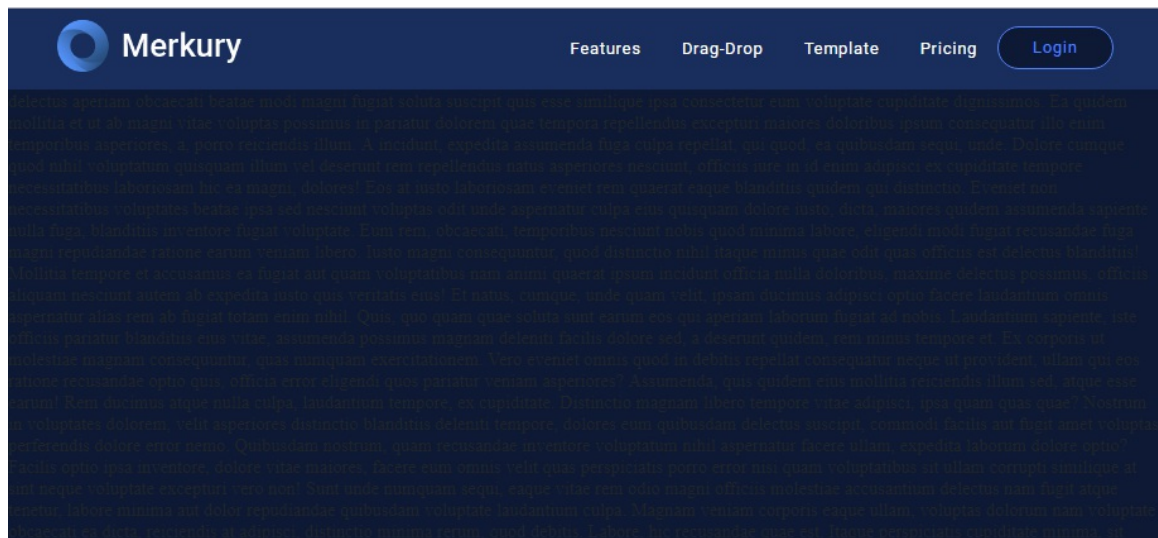
- Close Responsive menu when a link is clicked
- Activate scrollspy to add active class to navbar items on scroll
- On scroll down if the offset is higher than 50px the navbar shrink and change color

Result

- Navbar Before shrinking



- Navbar After shrinking



Note

Remind of media rule

@media rule CSS: The @media rule is used in media queries to apply different styles for different media types/devices.

Media queries can be used to check many things, such as:

- width and height of the viewport
- width and height of the device
- orientation (is the tablet/phone in landscape or portrait mode?)
- resolution

Details about syntax and usage are in Bookmarks

Bookmarks

Link to [GitHub Project](#)

[@media rule in CSS](#)

Header

Overview:

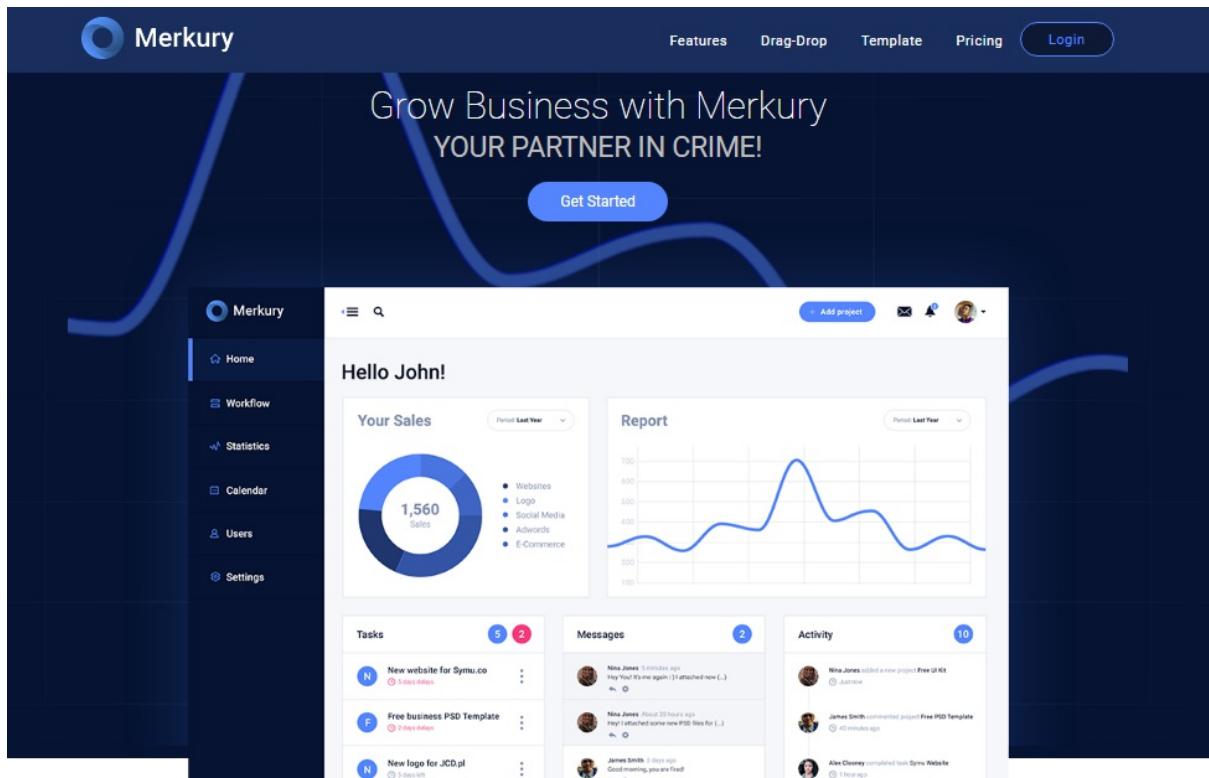
Implement UI for page header sections

Details:

Components implemented

- A title, a slogan and `Get started` button below
- Dashboard image with glowing sides extracted from PSD
- Grid background with chart on top
- Chart background with left-to-right linear moving effect

Result



Note

- Remind of CSS `@keyframe` , checkout link in the Bookmarks

Bookmarks:

Link to [GitHub Project](#)

[CSS keyframe](#)

Service Section

Overview:

Implement UI service section

Details:

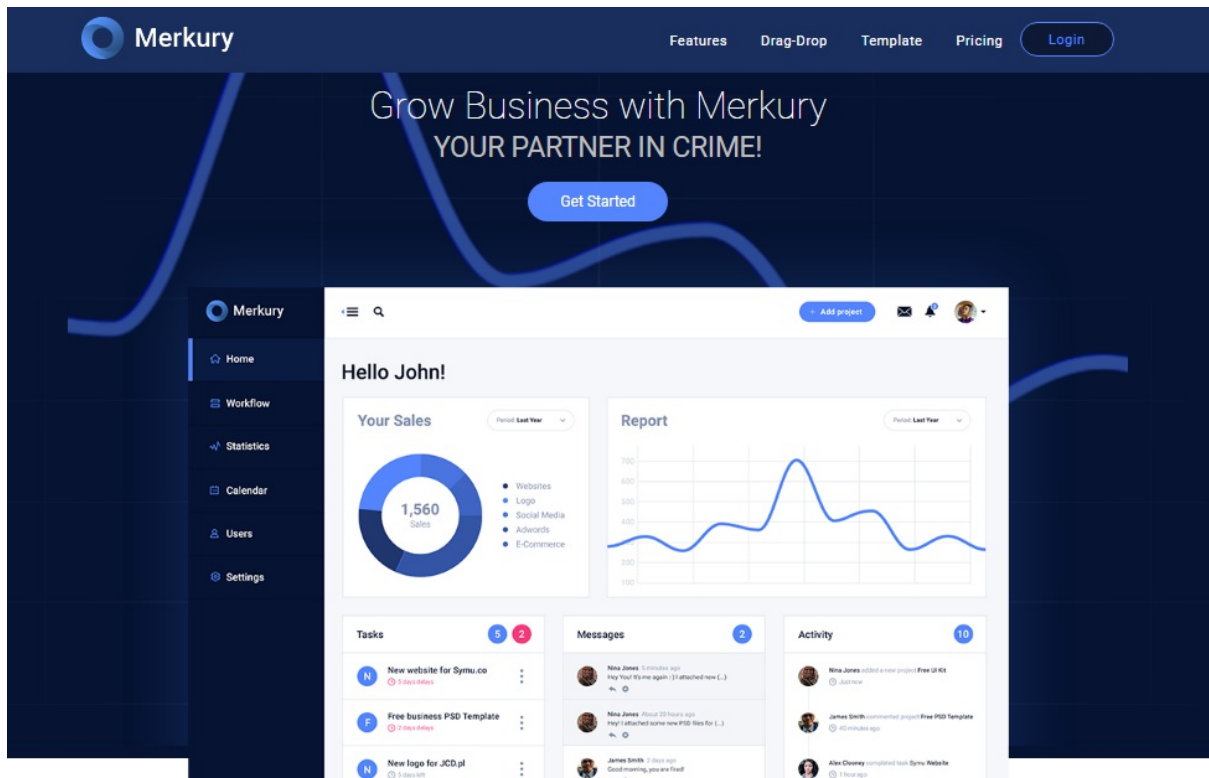
Components implemented

- Three columns represent three service with logo, title and detail text
- A `See More` button with hover effect
- Light gray divider between each image

Styling

- Customize font weight, font size and font family on titles and texts
- Add hover effect on `See More` button
- Add hover effect on logo images

Result

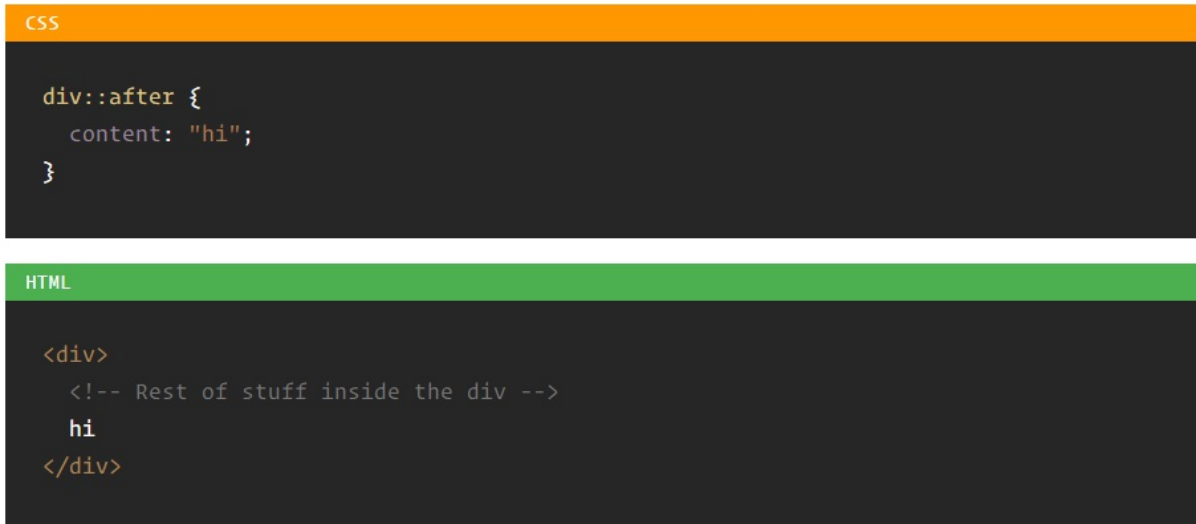


Note

- Pseudo element `::after`

What is it?

`::after` is a pseudo element which allows you to insert content onto a page from CSS (without it needing to be in the HTML). While the end result is not actually in the DOM, it appears on the page as if it is, and would essentially be like this:



The capability of psuedo elements is tremendous. Check out the Bookmarks

Bookmarks:

Link to [GitHub Project](#)

[Psuedo Elements CSS](#)

Features Section

Overview:

Implement UI for Features section

Details:

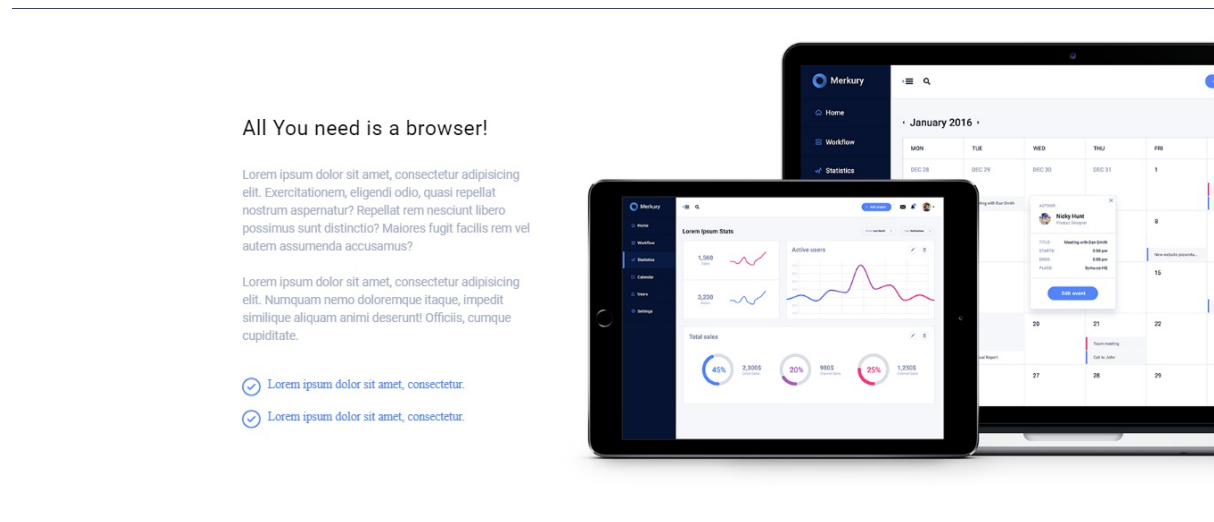
Components implemented

- Two Column, one take care of the text and one contains the image
- The text includes: A title, a paragraph and two checkpoints.

Styling

- Customize font weight, font size and font family on titles and texts
- Add padding and margin so everything look balanced

Result



Note

Nothing

Bookmarks:

Link to [GitHub Project](#)

[Pseudo Elements CSS](#)

Drag and Drop Section Part 1

Overview:

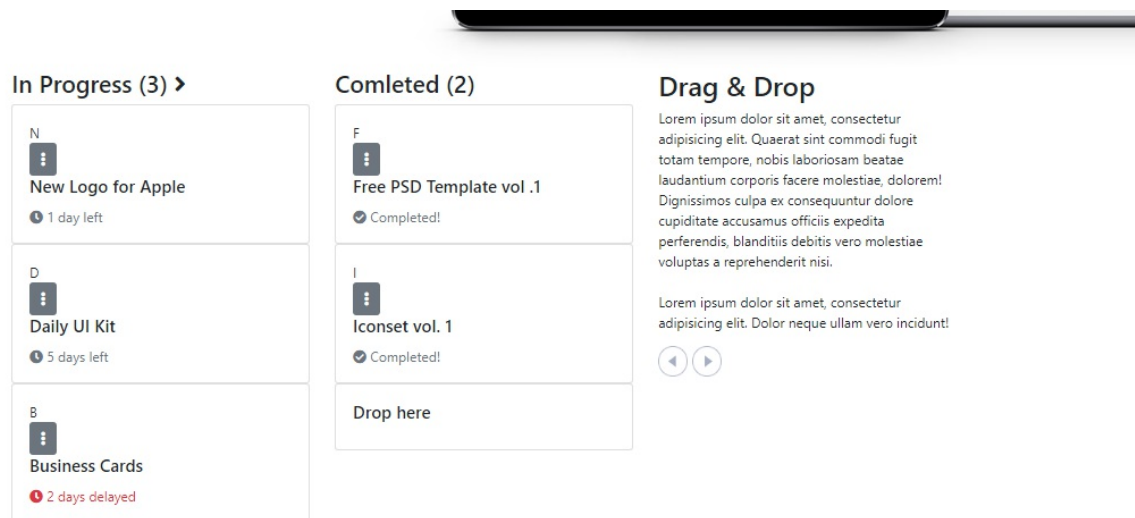
Implement skeleton for Drag and Drop section

Details:

Components implemented

- Three Column, one take care of the text and one contains card represent In-progress tasks, one contains card represent Completed tasks
- The text includes: A title, a paragraph and two checkpoints.

Result



Note

Nothing

Bookmarks:

Link to [GitHub Project](#)

Drag and Drop Section Part 2

Overview:

Implement Style for Drag and Drop section

Details:

Requirement

Download and install jQueryUI from [here](#)

Copy and paste `jquery-ui.min.js` into `./assets/style/js`

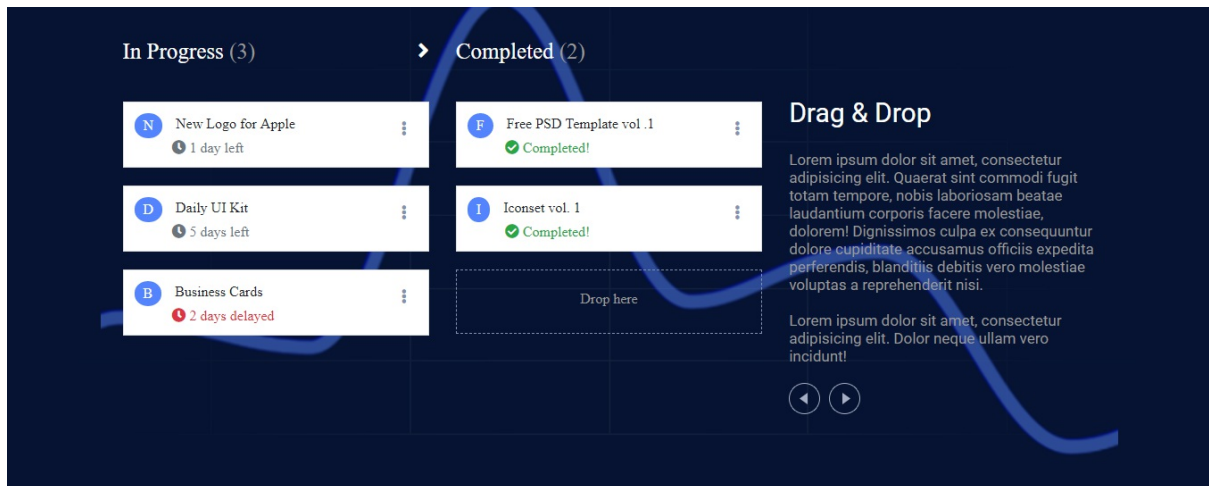
Styling

- Add Grid background to `#drag-drop` section
- Add Chart background to `.container` and apply animation on using `@keyframe`
- Add padding and margin to cards to make them look nicer
- Turn `dropdown` button to ellipsis
- Turn mouse to crossarrow when hover on draggable item

Effect

- Efface the border and `Drop here` text from the `#draggable` item when a card is dropped onto using jQueryUI
- Restrict dragging to horizontally.

Result



Note

Draggable and Droppable are just two of many interactions supported by jQueryUI. Find out more in the [Bookmarks](#)

Bookmarks:

Link to [GitHub Project](#)

[More on jQueryUI](#)

Template Section

Overview:

Implement UI for Template section

Details:

Idea

- A header at the top, horizontally centered
- Some description below
- Two animated line running until reach the dashboard at the middle
- Two paragraph float left and right from where the animation start
- The dashboard image will fade up at the beginning then float infinitely
- All animation start when the section got hovered on

Components implemented

- First row contain the one Header, one sub-text
- Second row contains three Columns, one left-side, one right-side, one middle
- Left-side and right-side col contain a title, a paragraph, the middle one contain an image as background

Styling

- Customize font and color of header and text
- Add animation on side columns using `::before` and `@keyframes` : a blue circle running toward the center image
- Apply floating effect on the center image

Result



Note

- Remind of CSS `@keyframe` , checkout link in the Bookmarks

Bookmarks:

Link to [GitHub Project](#)

[CSS keyframe](#)

Pricing Section

Overview:

Implement UI for Pricing section

Remind of `box-shadow` CSS property

Details:

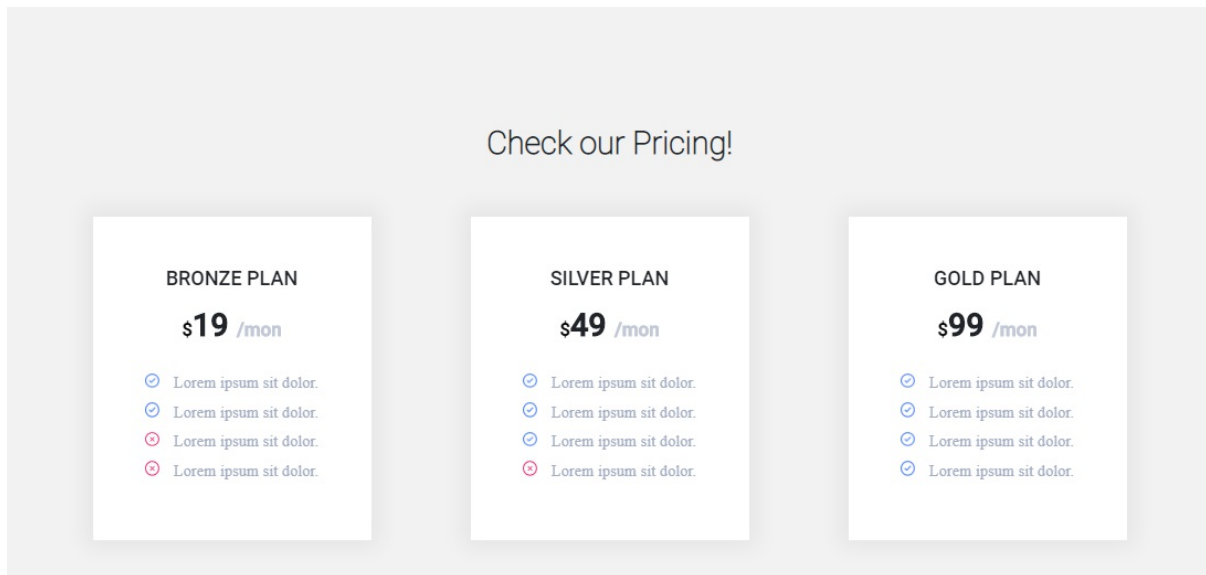
Components implemented

- Three Column, representing three pricing model: BRONZE, SILVER and GOLD
- Column contain title, price, benefits (blue-check circle) and fallbacks (x-circle) of each model

Styling

- Customize font and color of header and text

Result



Note

- Box shadow CSS property params explain:
 - The horizontal offset** (required) of the shadow, positive means the shadow will be on the right of the box, a negative offset will put the shadow on the left of the box.
 - The vertical offset** (required) of the shadow, a negative one means the box-shadow will be above the box, a positive one means the shadow will be below the box.
 - The blur radius** (required), if set to 0 the shadow will be sharp, the higher the number, the more blurred it will be, and the further out the shadow will extend. For instance a shadow with 5px of horizontal offset that also has a 5px blur radius will be 10px of total shadow.
 - The spread radius (optional), positive values increase the size of the shadow, negative values decrease the size. Default is 0 (the shadow is same size as blur).
 - Color (required) - takes any color value, like hex, named, rgba or hsla. If the color value is omitted, box shadows are drawn in the foreground color (text color). But be aware, older WebKit browsers (pre Chrome 20 and Safari 6) ignore the rule when color is omitted.
- Using a semi-transparent color like `rgba(0, 0, 0, 0.4)` is most common, and a nice effect

Find out more about `box-shadow` in the Bookmarks

Bookmarks:

Link to [GitHub Project](#)

[Box Shadow CSS](#)

Join and Footer Section

Overview:

Implement UI for Join Section Implement UI for Footer Section Remind of `:before` , `:after` and `display: flex`

Details:

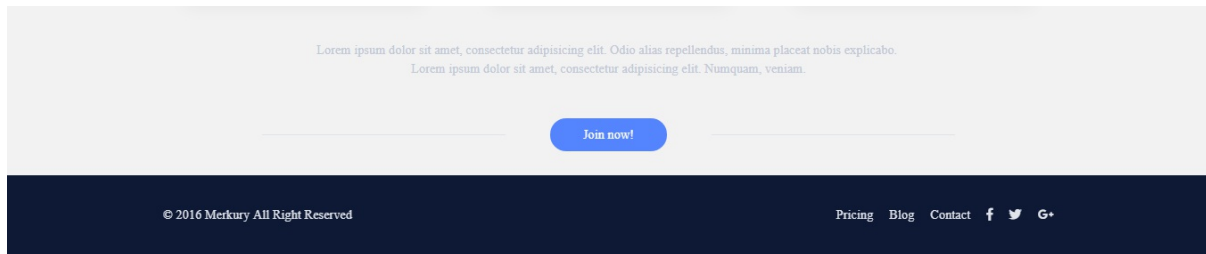
Components implemented

- Join Section: A presentation text with `Join now!` button below
- Footer Section: Copyright text float left, `Pricing` , `Blog` , `Contact` and social links float right

Styling

- Customize font and color of text, icon, style `Join now!` button
- Apply `::before` and `::after` to `Join now!` button

Result



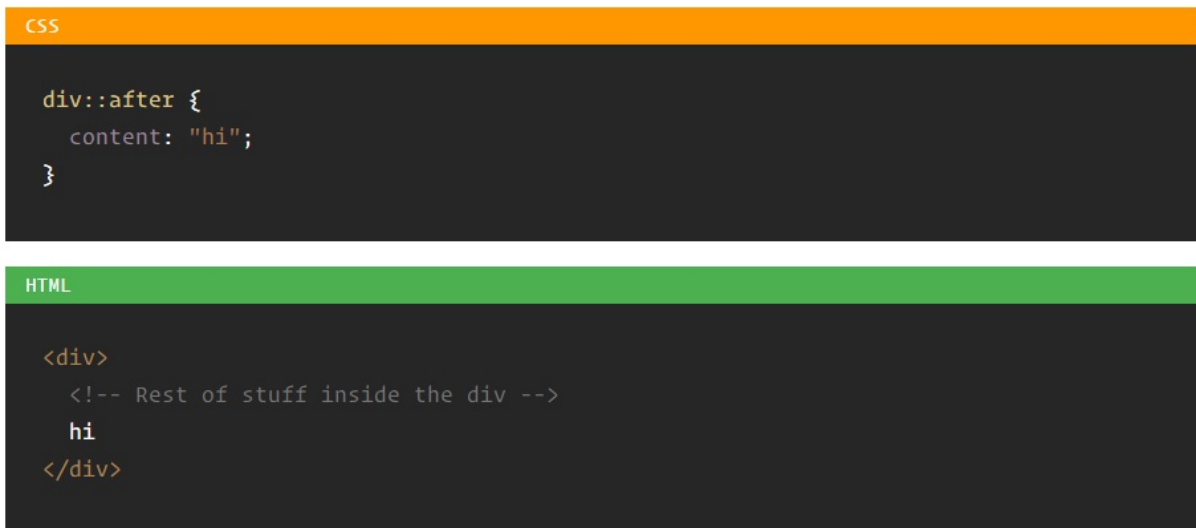
Note

Remind of psuedo classes

- Psuedo element `::after`
- Psuedo element `::before`

What is it?

Pseudo element allows you to insert content onto a page from CSS (without it needing to be in the HTML). While the end result is not actually in the DOM, it appears on the page as if it is, and would essentially be like this:



The capability of psuedo elements is tremendous. Check out the Bookmarks

Remind of `flex-box` CSS

Flexbox is the secret behind Bootstrap's grid system, help you build neat and responsive layout Checkout the tutorial in the Bookmarks

Bookmarks:

Link to [GitHub Project](#)

[Psuedo Elements CSS](#)

[Flexbox CSS](#)

Enhancements

Overview:

Make website more responsive

Apply some effect to increase smoothness

Details:

Enhancements

Test the website with every screen size and make sure everything looks nice

Apply Scrollspy

Apply Smooth Scrolling: Copy the code from this [link](#) and paste it into `main.js`

/ Apply Scroll Reveal

What is Scroll Reveal ?

ScrollReveal is a JavaScript library for easily animating elements as they enter/leave the viewport.

It was designed to be robust and flexible, but hopefully you'll be surprised below at how easy it is to pick up.

Steps:

1. Go to <https://github.com/scrollreveal/scrollreveal> to download the library
2. Paste the scrollreveal.min.js into our js folder
3. Initialize effect on an element by using this syntax:

```
ScrollReveal().reveal('#dashboard-group', {  
  duration: 2000,  
  origin: 'right',  
  distance: '100px',  
  mobile: true,  
  viewFactor: 0.2  
});
```

4. Checkout all options of the library through the link in Bookmarks section

Note

If using jQuery, check every jQuery effect with browser reload.

Bookmarks:

Link to [GitHub Project](#)

[Scroll Reveal Doc](#)

Testing

Overview:

- See what can we improve

Details:

Compressing images

Upload images to [Optimizilla](#) to minify images

Cross-browser testing

Open website on others browser to make sure it works everywhere

Put website online

The same as we did with OpenCharity website: Go to <https://app.netlify.com/sites/tender-banach-172fcd/overview> to deploy your website to Netlify

[Link to deployed website](#)

Markup Validation Service

Go to [W3C Markup Validation Service](#) to check for error in your markup files

Only one warning with lang property of `html` tag

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://merkury007.netlify.com/>

Checker Input

SHOW

☐ source

☐ outline

☐ image report

Options...

Check by

address

https://merkury007.netlify.com/

Check

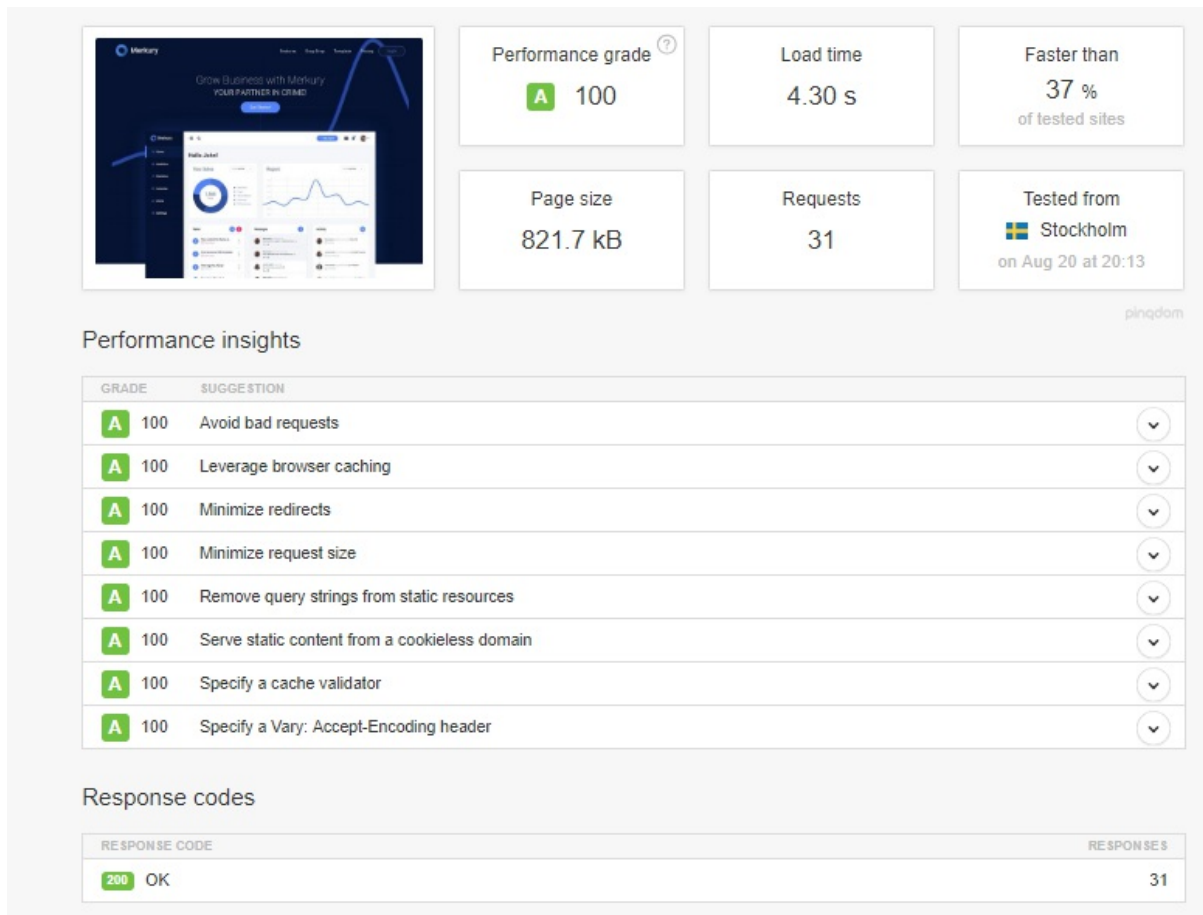
Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

Message Filtering

- Warning** Consider adding a `lang` attribute to the `html` start tag to declare the language of this document.
From line 1, column 16; to line 2, column 6
TYPE `html` `<html>` `<he`
For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).
If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

Website speed test

Test result from [Pingdom](#)



Note

Bookmarks:

Link to [GitHub Project](#)

Recap

Overview:

- Revise what we have learnt so far

Details:

Learned

- How to export images, getting colors from PSD files
- Prepare project files and folders using Trello to-do list
- Setting variables and custom stylesheet for our website
- How to nest CSS code in less for better understanding and readability
- How to use Bootstrap 4 and its components
- Create animations using CSS, jQuery or normal JS
- Dealt with two different plugins jQueryUI and ScrollReveal and know how to customize them
- Write clean code with comments
- Dealt with website responsiveness
- Increase website performance by compressing images, running markup test and speed test to know what to improve

Fallbacks

- Still need a lot more practices on CSS, CSS animations, jQuery, jQueryUI cuz what the course brought are just the tip of the iceberg.

Bookmarks:

Link to [GitHub Project](#)

Important Tips

Overview:

- Share some important tips and advices

Details:

The best three directions for you as a front-end developer/designer\

1. Start learning about CMSs like WordPress or Drupal...
2. Start learning a backend language like PHP with Laravel framework or Python with Django framework or so on.
3. Continue improving your JavaScript skills by learning a single page app framework like AngularJS, or ReactJS or VueJS

You don't need to know everything to be productive, just be confident

COURSE FINISHED: 20:44 PM 20/08/2018