

My little aquarium

CSIS 1280 Final Project



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Course: CSIS-1280-001\_23124\_202020 Multimedia Web Development

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# **Introduction**

For the final project, I want to take this chance to express my enthusiasm in developing a website with the marine life theme. Inspired by the charming ocean with several beautiful species, I love to research their interesting facts such as how they survive in the deep blue sea (e.g. as a predator or a prey) and what their behaviors are when hunting or escaping dangers (e.g. aggressive or passive). They are just a few examples that I want to share on the website currently. With the probability of extending in the future, I want to make my website a fun place to learn new knowledge and support marine life community.

# **Website organization**

Thanks to the knowledge and research skills I gain through the course, I can combine the content, presentation, and behaviors of elements to develop the entire website using HTML5, CSS3 and JavaScript. Technically, the website contains 3 main pages:

* Home page: few words about the main theme and functions of the website. In addition, a list of available marine animals is displayed with their names and images.
* Explore page: details about each marine animal introduced at the home page, along with fun facts and videos.
* Contact page: information about the address; form for users to contact with the author about different topics.

In addition, each of the above pages was implemented accordingly to responsive designs for mobile, tablet and desktop layout.

# **Website layout documentation**

# **Highlight**

I try to improve better user experiences by using different techniques such as navigation bar flexibility and its usability in different responsive designs. For example, regarding table and mobile layouts, navigation bar is sticky at the top so that user can navigate back and forth between pages easily. Moreover, in mobile design, the hamburger menu was applied to facilitate switching different pages in the small screen.

Also, in desktop layout, when scrolling in such a long page, items in left-side navigation bar will be no longer visible. To solve that, a “back to top” button was implemented at the bottom-right for easy navigation, so user can see available items at navigation bar as needed. Also, that button will be dynamically hidden or visible based on the estimated height of available items in the navigation bar.

# **Content declaration**

# **References**

**Techniques references:**

Learn several grid layout techniques

<https://css-tricks.com/snippets/css/complete-guide-grid/>

Create sticky navigation bar

<https://www.w3.org/WAI/WCAG21/Techniques/css/C34.html>

Create mobile menu for navigation bar

<https://www.w3schools.com/howto/howto_js_mobile_navbar.asp>

How to override a style, used to control responsive pages

<https://stackoverflow.com/questions/104485/is-there-a-way-to-force-a-style-to-a-div-element-which-already-has-a-style-at>

How to scroll back to top

<https://www.w3schools.com/howto/howto_js_scroll_to_top.asp>

Style element height in JS

<https://www.w3schools.com/jsref/prop_style_height.asp>

<https://developer.mozilla.org/en-US/docs/Web/API/Document/height>

Format phone number

<https://learnersbucket.com/examples/javascript/how-to-format-phone-number-in-javascript/>

Learn and test regex

<https://regexr.com/>

Email regex validation

<https://www.w3schools.com/tags/att_input_pattern.asp>

YouTube iframe responsive

<https://www.h3xed.com/web-development/how-to-make-a-responsive-100-width-youtube-iframe-embed>

YouTube iframe issue of overlapping sticky navigation bar

<https://stackoverflow.com/questions/59388943/youtube-iframe-is-shown-over-the-position-sticky-css-div>

Fake address and phone number generator

<https://www.fakeaddressgenerator.com/World/ca_address_generator>

Flip image

<https://www.w3schools.com/howto/howto_css_flip_image.asp>

Website color palettes

<https://colorhunt.co/palette/177866>

<https://paletton.com/#uid=13k0u0k7yAp1gVD3VMhc2tahunT>

Display clock

<https://www.w3schools.com/js/tryit.asp?filename=tryjs_timing_clock>

Display and format current date

<https://stackoverflow.com/questions/3552461/how-to-format-a-javascript-date>

Random value in an array

<https://stackoverflow.com/questions/4550505/getting-a-random-value-from-a-javascript-array>

**Images used:**

Hamburger menu icon

<https://www.iconfinder.com/icons/134216/hamburger_lines_menu_icon>

Invalid icon

<https://www.flaticon.com/free-icon/remove_1828843?term=cross&page=1&position=9>

Valid icon

<https://www.flaticon.com/free-icon/check_845646?term=tick&page=1&position=3>

Header image – Ocean background

<https://unsplash.com/photos/XexawgzYOBc>

Header image – Fish icon

<https://www.flaticon.com/free-icon/fish_3050536?term=fish&page=1&position=27>

Killer Whale

<https://pixabay.com/photos/killer-whales-orcas-breaching-1945411/>

Cuttlefish

<https://pixabay.com/photos/cuttlefish-fish-sea-creatures-800340/>

Tiger Shark

<https://unsplash.com/photos/GBDkr3k96DE>

Lionfish

<https://pixabay.com/photos/lionfish-aquarium-sealife-tropical-711799/>

Mandarinfish

<https://unsplash.com/photos/xNpxB9bfLUE>

Piranha

<https://pixabay.com/photos/piranha-fish-aquarium-animals-262575/>

**Videos used:**

Killer Whale

<https://youtu.be/qPDZZj6By3Y>

Cuttlefish

<https://youtu.be/AjS2-Ftj_K4>

Tiger Shark

<https://youtu.be/q8fvw3JDMw0>

Lionfish

<https://youtu.be/XqGhsMhZtF0>

Mandarinfish

<https://youtu.be/KivINH0ka_A>

Piranha

<https://youtu.be/fSqbqDhDYZo>

**Audio used:**

Ocean waves sound

<http://soundbible.com/338-Beach-Waves.html>

**Animal facts references:**

Tiger Shark

<https://oceana.org/marine-life/sharks-rays/tiger-shark>

Killer Whale

<https://oceana.org/marine-life/marine-mammals/orca>

Piranha

<https://www.britannica.com/animal/piranha-fish>

Lionfish

<https://oceanservice.noaa.gov/facts/lionfish-facts.html>

Mandarinfish

<https://www.georgiaaquarium.org/animal/mandarinfish/>

Cuttlefish

<https://www.mba.ac.uk/fact-sheet-cuttlefish>