

# UNIVERSIDAD PANAMERICANA

**WEB APPLICATION DEVELOPMENT**  
**Design Document**  
**Team 4**

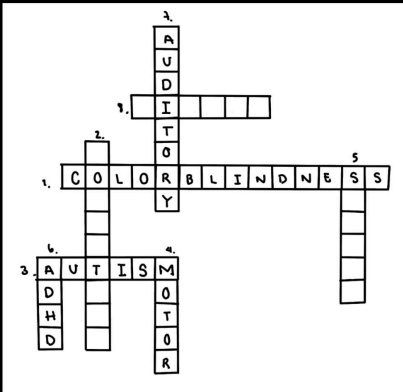
### **How it started:**

When we agreed on the idea of making a website that included both, awareness of disabilities and quality education, we thought about how to make it work and after researching and getting all the information we needed, we started by developing the games and did two sketches, one for crossword puzzles and another for the word search.

At first we thought we would make just one of each that would contain information for all the disabilities but then we decided on doing them for each of the types of disabilities so that they were more specific and also decided to change the word search for a wordle since we thought it would be more interesting and different.

Functionality wise the project didn't suffer many changes, just added and fixed some things but design wise it went through a lot of changes since we would add and change things up every time to be completely satisfied with the look and feel of it thinking about it from a user perspective.

### **CROSSWORD:**



1. Visual impairment that causes difficulty to distinguish between colors or inability to perceive them at all.

2. Type of disability that impacts how people process and comprehend information.

3. Disorder that involves impairments on social communication and the ability to interact.

4. Type of disability that encompasses physical impairments that can impede movement, coordination, or sensation.

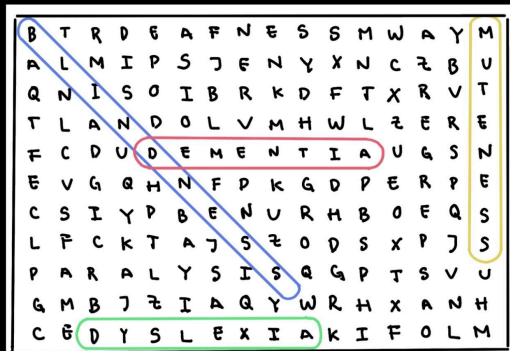
5. Type of disability that includes the inability to produce speech that is recognizable.

6. Cognitive disability that involves difficulty focusing on a single task, for long periods or being easily distracted.

7. Type of disability that includes mild to moderate hearing impairment in one or both ears.

8. Type of disability that affects the vision, it can range from mild to moderate vision loss in one or both eyes.

## **WORD SEARCH:**



Blindness - Substantial loss of vision in both eyes.

Muteness - Inability to speak due to mental disorders, cognitive impairments, or ability to learn to speak.

Dementia - Memory impairment that involves limited short-term memory, missing long-term memory or limited ability to recall language.

Dyslexia - Learning disorder that involves difficulty reading due to problems identifying speech sounds and learning how to relate to letters and words.

Deafness - Hearing impairment that is substantial and uncorrectable in both ears

paralysis - Loss of control or movement over a part of the body

## **WORKLOAD:**

Regarding the workload, we split it into two parts, the front and the backend. We started working like that since the first delivery and keeping a great communication we pulled it off. Focusing on what each of us had to do, we were able to save lots of time, made progress and merged it all together.

## **CODE:**

```

        setTimeout(() => {
            let section = document.querySelector(window.location.hash);
            let scrollMarginTop = getComputedStyle(section).scrollMarginTop;
            window.scrollTo({
                top: section.offsetTop - parseInt(scrollMarginTop),
                behavior: 'smooth'
            });
        }, 100);
    }
});

/**
 * Navmenu Scrollspy
 */
let navmenulinks = document.querySelectorAll('.navmenu a');

function navmenuScrollspy() {
    navmenulinks.forEach(navmenulink => {
        if (!navmenulink.hash) return;
        let section = document.querySelector(navmenulink.hash);
        if (!section) return;
        let position = window.scrollY + 200;
        if (position >= section.offsetTop && position <= (section.offsetTop + section.offsetHeight)) {
            document.querySelectorAll('.navmenu a.active').forEach(link => link.classList.remove('active'));
            navmenulink.classList.add('active');
        } else {
            navmenulink.classList.remove('active');
        }
    })
}

window.addEventListener('load', navmenuScrollspy);
document.addEventListener('scroll', navmenuScrollspy);

})();

```

```

(function() {
    document.querySelectorAll('.isotope-layout').forEach(function(isotopeItem) {
        imagesLoaded(isotopeItem.querySelector('.isotope-container'), function() {

        });
    });

    isotopeItem.querySelectorAll('.isotope-filters li').forEach(function(filters) {
        filters.addEventListener('click', function() {
            isotopeItem.querySelector('.isotope-filters .filter-active').classList.remove('filter-active');
            this.classList.add('filter-active');
            initIsotope.arrange({
                filter: this.getAttribute('data-filter')
            });
            if (typeof aosInit === 'function') {
                aosInit();
            }
        }, false);
    });

});

/**
 * Frequently Asked Questions Toggle
 */
document.querySelectorAll('.faq-item h3, .faq-item .faq-toggle').forEach((faqItem) => {
    faqItem.addEventListener('click', () => {
        faqItem.parentNode.classList.toggle('faq-active');
    });
});

/**
 * Correct scrolling position upon page load for URLs containing hash links.
 */
window.addEventListener('load', function(e) {
    if (window.location.hash) {
        if (document.querySelector(window.location.hash)) {
            setTimeout(() => {

```

```

function initSwiper() {
  document.querySelectorAll(".init-swiper").forEach(function(swiperElement) {
    let config = JSON.parse(
      swiperElement.querySelector(".swiper-config").innerHTML.trim()
    );

    if (swiperElement.classList.contains("swiper-tab")) {
      initSwiperWithCustomPagination(swiperElement, config);
    } else {
      new Swiper(swiperElement, config);
    }
  });
}

window.addEventListener("load", initSwiper);

/**
 * Initiate Pure Counter
 */
new PureCounter();

/**
 * Init isotope layout and filters
 */
document.querySelectorAll('.isotope-layout').forEach(function(isotopeItem) {
  let layout = isotopeItem.getAttribute('data-layout') ?? 'masonry';
  let filter = isotopeItem.getAttribute('data-default-filter') ?? '';
  let sort = isotopeItem.getAttribute('data-sort') ?? 'original-order';

  let initIsotope;
  imagesloaded(isotopeItem.querySelector('.isotope-container'), function() {
    initIsotope = new Isotope(isotopeItem.querySelector('.isotope-container'), {
      itemSelector: '.isotope-item',
      layoutMode: layout,
      filter: filter,
      sortBy: sort
    }
  });
});

```

```

scrollTop.addEventListener('click', (e) => {
  e.preventDefault();
  window.scrollTo({
    top: 0,
    behavior: 'smooth'
  });
});

window.addEventListener('load', toggleScrollTop);
document.addEventListener('scroll', toggleScrollTop);

/**
 * Animation on scroll function and init
 */
function aosInit() {
  AOS.init({
    duration: 600,
    easing: 'ease-in-out',
    once: true,
    mirror: false
  });
}
window.addEventListener('load', aosInit);

/**
 * Initiate glightbox
 */
const glightbox = GLightbox({
  selector: '.glightbox'
});

/**
 * Init swiper sliders
 */
function initSwiper() {
  document.querySelectorAll(".init-swiper").forEach(function(swiperElement) {

```

```

});

/**
 * Toggle mobile nav dropdowns
 */
document.querySelectorAll('.navmenu .toggle-dropdown').forEach(navmenu => {
  navmenu.addEventListener('click', function(e) {
    e.preventDefault();
    this.parentNode.classList.toggle('active');
    this.parentNode.nextElementSibling.classList.toggle('dropdown-active');
    e.stopImmediatePropagation();
  });
});

/**
 * Preloader
 */
const preloader = document.querySelector('#preloader');
if (preloader) {
  window.addEventListener('load', () => {
    preloader.remove();
  });
}

/**
 * Scroll top button
 */
let scrollTop = document.querySelector('.scroll-top');

function toggleScrollTop() {
  if (scrollTop) {
    window.scrollY > 100 ? scrollTop.classList.add('active') : scrollTop.classList.remove('active');
  }
}
scrollTop.addEventListener('click', (e) => {

```

```

9  (function() {
10   "use strict";
11
12   /**
13    * Apply .scrolled class to the body as the page is scrolled down
14    */
15   function toggleScrolled() {
16     const selectBody = document.querySelector('body');
17     const selectHeader = document.querySelector('#header');
18     if (!selectHeader.classList.contains('scroll-up-sticky') && !selectHeader.classList.contains('
19     window.scrollY > 100 ? selectBody.classList.add('scrolled') : selectBody.classList.remove('scrolled');
20   }
21
22   document.addEventListener('scroll', toggleScrolled);
23   window.addEventListener('load', toggleScrolled);
24
25   /**
26    * Mobile nav toggle
27    */
28   const mobileNavToggleBtn = document.querySelector('.mobile-nav-toggle');
29
30   function mobileNavToggle() {
31     document.querySelector('body').classList.toggle('mobile-nav-active');
32     mobileNavToggleBtn.classList.toggle('bi-list');
33     mobileNavToggleBtn.classList.toggle('bi-x');
34   }
35   mobileNavToggleBtn.addEventListener('click', mobileNavToggle);
36
37   /**
38    * Hide mobile nav on same-page/hash links
39    */
40   document.querySelectorAll('#navmenu a').forEach(navmenu => {
41     navmenu.addEventListener('click', () => {
42       if (document.querySelector('.mobile-nav-active')) {
43         mobileNavToggle();
44       }
45     });

```