DWA_07.4 Knowledge Check_DWA7

- 1. Which were the three best abstractions, and why?
 - Moved the querySelectors to their own folder to clear up and clean up my code from the main js folder.
 - In this code below, I've divided the code into separate functions to improve readability and maintainability.

```
338
       st This code sets up for a submit event listener. When the form is submitted, the selected
339
       ^st object is created by converting the form data to an object using Object.fromEntries().
340
       * Depending on the theme selected, the --color-light and --color-dark CSS variables are
341
       * updated with the corresponding light and dark color values from the css object
342
343
      dataSettingsForm.addEventListener('submit', handleFormSubmit);
344
      export function handleFormSubmit(event) {
345
346
          event.preventDefault();
347
          const selected = getSelectedValues(event.target);
348
349
          if (selected.theme) {
350
              applyThemeStyles(selected.theme);
351
352
353
          dataSettingsOverlay.close();
354
355
356
      function getSelectedValues(form) {
357
          const formSubmit = new FormData(form);
358
          return Object.fromEntries(formSubmit);
359
360
361
      function applyThemeStyles(theme) {
362
          if (css[theme] && css[theme].length >= 2) {
363
              document.documentElement.style.setProperty('--color-light', css[theme][0]);
364
              document.documentElement.style.setProperty('--color-dark', css[theme][1]);
365
366
```

 Modularized the below code into smaller functions for creating elements with attributes and elements with text content. This approach enhances code readability, encourages code reuse.

```
function createPreview(preview) {
   const { author: authorId, id, image, title } = preview;
   const showPreview = createElementWithAttributes('button', {
       class: 'preview',
        'data-preview': id,
   });
   const imageElement = createElementWithAttributes('img', {
       class: 'preview_image',
       src: image,
   });
   const infoElement = createElementWithAttributes('div', {
       class: 'preview_info',
   });
   const titleElement = createElementWithText('h3', title);
   const authorElement = createElementWithText('div', authors[authorId]);
   infoElement.append(titleElement, authorElement);
   showPreview.append(imageElement, infoElement);
   return showPreview;
function createElementWithAttributes(tagName, attributes) {
   const element = document.createElement(tagName);
   for (const [attrName, attrValue] of Object.entries(attributes)) {
       element.setAttribute(attrName, attrValue);
   return element;
```

2. Which were the three worst abstractions, and why?

• Commenting and Documentation.

3. How can The three worst abstractions be improved via SOLID principles.