***Web Component-Shuffle***

I have chosen to implement a Web Component, shuffle, in Angular. This component enables the user to press a button which will then randomly choose an image from a predefined list of images, display it and if the user hovers over the image, a description of the image will appear instead. When the user clicks anywhere on page, the image/description will disappear, and the user will be able to shuffle again. Also, the user will see the number of possible images and their category.

In Angular, a component has: a CSS file, a HTML file and a TypeScript file.

The CSS file simply has some styling defined, which will be applied to the HTML elements.

In the HTML file, there is some text, the number of all possible images that could be obtained from shuffle, and a category which is given beforehand. Then, a modal is defined, which will contain the image that will result from a shuffle. The functions shuffle(), clickModal(), showInfo() and noInfo() are all defined in the TypeScript file. The modal has the image, the text that will be displayed on hover, the index of the image that resulted from shuffle and a description, which will be shown below the image.

A screen shot of a computer code

Description automatically generated with low confidence

In the TypeScript file, there are four input values. They will be given from the main html. ‘sources’ is the list of image paths. ‘titles’ is the list of descriptions for each image, which will be shown under the image. ‘about’ is the list of information about each image, which will be shown on hover. ‘category’ is the category of the images.

A picture containing text, font, screenshot, typography

Description automatically generated

The function clickModal() is used when the user tries click anywhere on screen, after a image is generated from shuffle. It simply hides the modal.

A screen shot of a computer code

Description automatically generated with low confidence

The function showInfo() is used when the user hovers over the image. This will hide the image (this happens in CSS) and will set the value of modalText.

A screen shot of a computer code

Description automatically generated with low confidence

The function noInfo() is used when the user no longer hovers over an image. The image will reappear and the value of modalText will no longer be set.

A picture containing screenshot, text, font

Description automatically generated

The function shuffle() is used when the button shuffle is pressed. A random number will be selected, as high as the number of elements, and then each element from the modal will be set accordingly.

A screen shot of a computer program

Description automatically generated with medium confidence

In the end, in app.component.html, the component will simply be rendered like this, with each input value from the typescript set beforehand.



When running an Angular project with the shuffle-component integrated, the main page will look like this.

A white background with blue text

Description automatically generated with low confidence

Then, when pressing the shuffle button, an image with a text will appear.

A close-up of a cat

Description automatically generated with medium confidence

When hovering over the image, the image will disappear and a description will appear instead.

A grey background with white text

Description automatically generated with low confidence

~Dumistracel Sabina, group 248-1