

Fintech Developer Toolkit 1 - Connecting the Front End

Assignment/Homework Exercises (After Day 1):-

Developer toolkit 1 is a two days course. By the end of day 1, you should have sufficient knowledge/skills to try the following exercises. Complete the exercises before Day 2 of the course.

1. Refer to the following self assessment question Mozilla's Development Network on CSS:
https://developer.mozilla.org/en-US/docs/Learn/CSS/Introduction_to_CSS/Fundamental_CSS_comprehension

Complete the assessment and see if you can achieve the desired output.



- Refer <https://www.semrush.com/blog/semantic-html5-guide/> for new useful html tags to create the card above: <header> <article> <footer> <section>, etc.
- You are welcome to use your creativity in design to improve the card further with your preferred colors and images.

Tips:

HTML:-

```
<section class="card">
  <header>
    <h2> Name Part </h2>
  </header>
  <article>
```

```
    Insert image using <img> tag
    <p> Address line 1 <br/>
    <p> Address line 2 <br/>
</article>
<footer>
    <p>Footer part</p>
</footer>
</section>
```

CSS:-

```
/* General styles*/
.card {
    margin: 0;
}

/* Selectors to be matched up with rulesets */
.card article img {

    float: right;
    max-height: 100%

}
.card footer{
    background-image: linear-gradient(to bottom,rgba(0,0,0,0), rgba(0,0,0,0.1));
    border-radius: 0 0 1.5em 1.5em;
}
.card header{
    background-image: linear-gradient(to bottom,rgba(0,0,0,0.1), rgba(0,0,0,0));
    border-radius: 1.5em 1.5em 0 0;
}
.card {
    width: 35em;
    height: 22em;
    margin: 5em auto;
    background-color: red;
    border: 0.2em solid black;
    border-radius: 1.5em;}

/*styles specific to the setup of the card container*/
```

```

/* styles specific to the header and footer*/
.card header {
    max-height: 50px;
    height: 30px;
    padding: 10px;
    font-size: 20px;
    line-height: 5px;
}

.card footer {
    //ADD STYLES for FOOTER
}

/*styles specific to the main business card contents*/
.card article {
    height:120px;
    background: rgba(151, 33, 33, 0.5);
    padding-left: 15px;
    color:whitesmoke ;
    line-height: 16px;
}

```

- Using D3.JS draw a scatter graph for the given data.

Data = [[10,15], [20,20], [5,20], [7,4], [22, 6]]

Tips: Use SVG circles with appropriate radius to plot the points. Scale the data values 10 times

- Write a javascript program to print the string in reverse in the console.

Eg:

Given string: "Hello!"

Output: "!olleH"

- Refer to the following self assessment question Mozilla's Development Network on Javascript:

https://developer.mozilla.org/en-US/docs/Learn/JavaScript/First_steps/Silly_story_generator

Complete the assessment and see if you can achieve the desired output.

Enter custom name:

US ☒ **UK** ☐

Generate random story

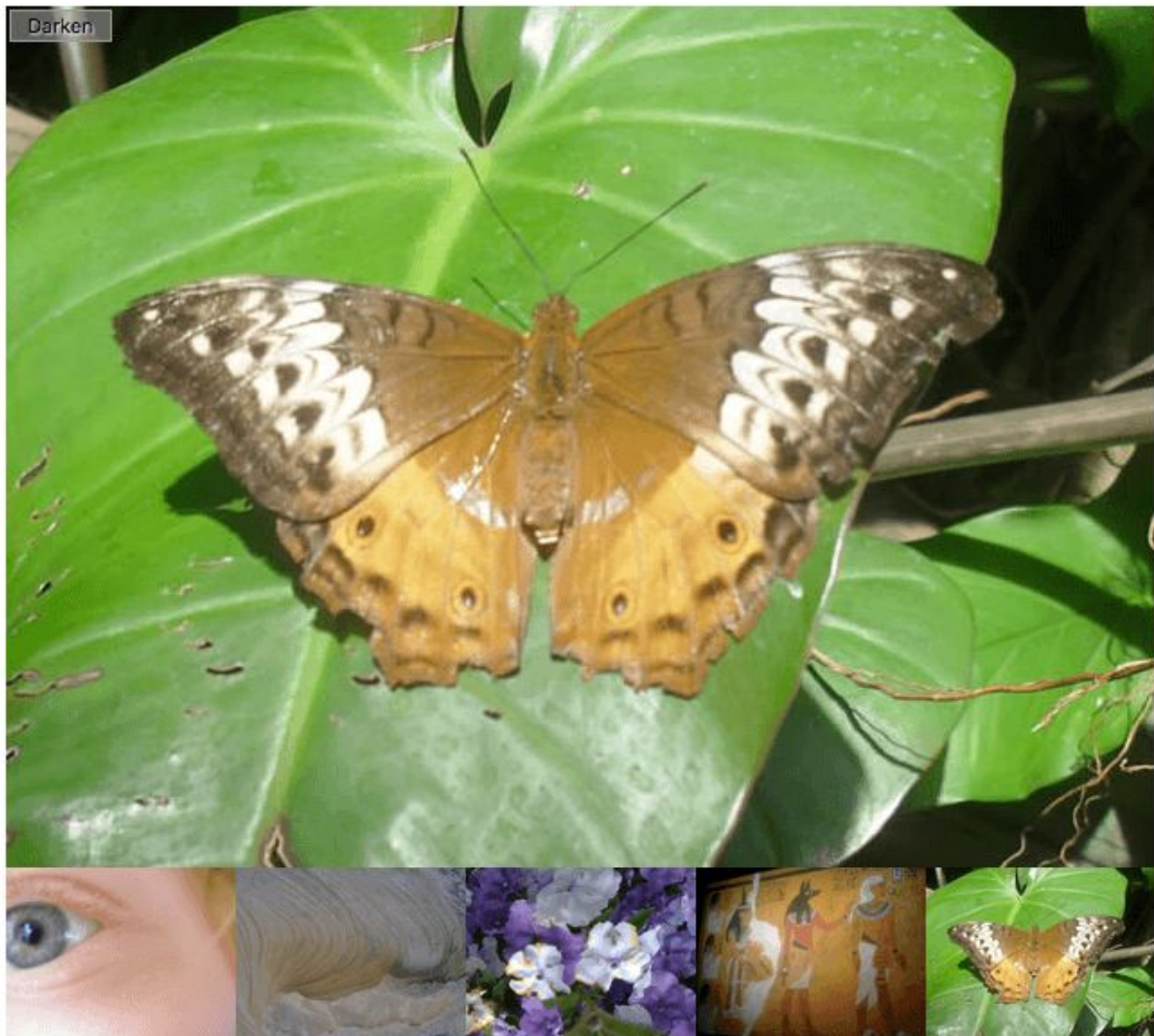
It was 94 fahrenheit outside, so Willy the Goblin went for a walk. When they got to the soup kitchen, they stared in horror for a few moments, then turned into a slug and crawled away. Bob saw the whole thing, but was not surprised — Willy the Goblin weighs 300 pounds, and it was a hot day.

5. Refer to the following self assessment question Mozilla's Development Network on Javascript:

https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Building_blocks/Image_gallery

Complete the assessment and see if you can achieve the desired output.

Image gallery example



6. Create an HTML document which shows a list of Banks. [use, to create the list).

Eg.

```
<ul>
  <li>DBS</li>
  <li>OCBC</li>
  <li>UOB</li>
  <li>Citi</li>
</ul>
```

Write a javaScript function addNew(), which when called through a button-click in the HTML page, adds a new bank to the list in the HTML document.

New bank to add. "MYDigi bank"

Tips: use "**appendChild()**" to ac a new child to list.

Submission:

Submit your source codes in a **ZIP file** to LumiNUS->Student Submissions->Assignment1

Submission Due: **1st Sep 11.59pm**