Web Programming

Tutorial 5

To begin this tutorial, please download tut05-starter.zip from the course website. When you finish, zip all your deliveries to submit to this tutorial's submission box. The zip file's name should follow this format: tclass_sid.zip where tclass is your tutorial class name (e.g. tut01, tut02, tut03, etc.) and sid is your student's ID (e.g. 2101040015).

Activity 1 - From promise/then to async/await

In the activity_1 folder, edit async-await.js. Replace all usage of .then / .catch in the code with async / await so that the output is the same. You will need to define at least one async function.

Open index.html in the browser and use the console to check your work.

Activity 2 – JS Object

Given the following JS Object:

```
let data = {
  "age": 21,
  "age-median": 20,
  "company": "H City Zoo",
  "ticket-prices": {
    "adult": 9.95,
    "child": 5.95
  },
  "people": [{
    "first name": "Aylmar",
    "last name": "Avison",
    "email": "aavison@gscribd.com",
    "favorite animal": "Honey badger"
  },
    "first name": "Jean",
    "last name": "Jorg",
    "email": "jjorg1@i2i.jp",
    "favorite animal": "Elephant, asian"
  },
```

```
"first_name": "Bernardo",
    "last_name": "McDuff",
    "email": "bmcduff2@purevolume.com",
    "favorite_animal": "Cockatoo, slender-billed"
}]
};
```

Complete the table below mapping JavaScript code to its value or mapping the value to its JavaScript code.

JavaScript	Value
data.company	
data['company']	
	'jjorg1@i2i.jp'
data['ticket-prices'].adult	
	5.95
data.ticket-prices	
data.age-median	
	20

Activity 3 – AJAX Pets

Given the ajaxpets folder as a starter, create an AJAX-powered gallery of pet images that allows you to switch between kitty and puppy images without reloading the page.

You are provided with a Pets API:

```
Service URL: http://103.159.50.237/wpr/api/pets/index.php

Query Parameters (required): ?animal=<value>

Details: animal is the name of the query parameter you need to assign a value to. This API recognizes either a value of puppy or kitty.

Example Request (with puppy as the value):
http://103.159.50.237/wpr/api/pets/index.php?animal=puppy
```

Pets API Response comes in plain text and has the following format:

```
https://path/to/pet/img0.jpg
https://path/to/pet/img1.jpg
https://path/to/pet/img2.jpg
https://path/to/pet/img3.jpg
...
```

Ajax Pets Implementation

The provided starter code includes a module-pattern template we've been using to get you started, named ajaxpets.js. You will need to implement the JavaScript to incorporate AJAX and make a request with the Pets API URL with the parameter animal of value kitty or puppy, depending on which radio button is selected.

When a request returns a response successfully with the plain text response of image paths, write JS to add img tags as children to the #pictures div for each image path returned on a new line.

Hint: you should listen for the change event of the radio buttons.

Activity 4 – Making a POST request with Fetch

Given the login folder as starter. Your task is to update post.html so that the input elements have the proper attributes (both input elements should be required to be filled for the form to be submitted). Update post.js to get user inputs, send a POST request to the Login API and show the result returned by the API. Upon a the form being submitted, the response from the API should be added to the #response container.

This login page has only one valid username/password combo (username: rainbowdash, password: ponyta).

Login API Documentation

Service URL: http://103.159.50.237/wpr/api/login.php

Request method: POST

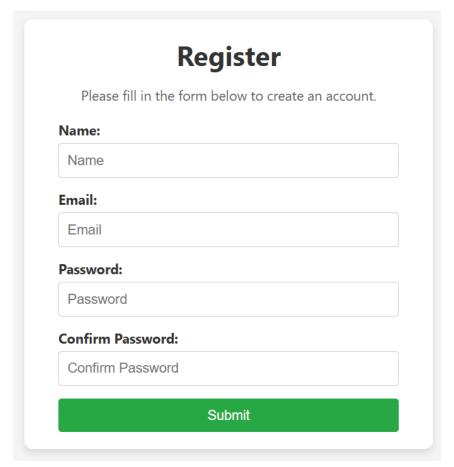
Response format: plain text

Body Parameters (2 params):

user : Obtained from the first input element for the username

password : Obtained from the second input element for the password

Activity 5 - Form validation

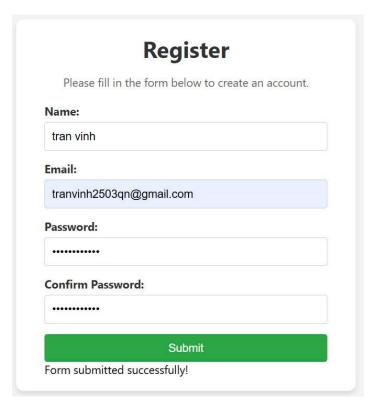


In the form_validation folder, these starter files (HTML, CSS, and part of the JS) provide the basic structure for the form validation exercise. You need to implement the JavaScript logic to validate the form, display error messages, and handle the countdown timer after a successful validation.

You have to do following tasks:

- 1. Validate the form fields as follows:
 - Name: Required, minimum 3 characters

- Email: Required, must be a valid email address
- **Password**: Required, minimum 8 characters, must include at least one uppercase letter, one lowercase letter, and one number
- Confirm Password: Must match the Password field.
- 2. Display dynamic error messages as the user inputs data
- 3. Prevent form submission if any validation fails
- 3. After successful validation, display a 3-second countdown and then show a success message.



Hints:

- Use regular expressions for email and password validation
- Use "addEventListener" for real-time validation
- Use "preventDefault()" to stop form submission if validation fails