



# **INTERNET PROGRAMMING**

TP5- JavaScript (Promise and Fetch)

Lecturer

HOK TIN

Student

CHHORN KAKADA

e20190146

GIC-A

2022-2023

github : <https://github.com/ChhornKakada/IntenetProgramming/tree/tp5>

## ex1. Activity Suggestion

- [Index.html](#) (ex1. Activity Suggestion)

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Activity Suggestion</title>
  <script src="./tailwindcss.js"></script>
  <link rel="stylesheet" href="styles.css">
</head>

<!-- bg-blue-500 sm:bg-black md:bg-green-500 lg:bg-red-500
xl:bg-[#D362D] 2xl:bg-[#FFFF00] 3xl:bg-[#A020F0] -->

<body class="text-[1.2rem] mt-12 ">
  <div style="font-family: 'Julee', cursive;" class="font-bold">
    <center>
      <div class="text-[144px]">☹️</div>
      <h1 class="text-[5rem] mt-[-40px]">Are you boring ?</h1>
      <button onclick="getMeAnActivity()" id="generateAct"
        class="bg-blue-500 px-[50px] py-[10px] text-[1.2rem] text-white rounded-lg
my-[26px]">
        Tell me what to do</button>
    </center>
  </div>

  <!-- Activity -->
  <div class="activityContainer w-[460px] h-[320px] border-2 rounded-lg mx-auto p-
[25px]">
    <div class="flex justify-center items-center" id="loadingContainer">
      <div class="lds-hourglass" id="loadingText" hidden></div>
    </div>

    <div id="activity" hidden>
      <div id="activityName" class="text-[1.5rem] text-center mb-6 font-bold"></div>
      <!-- type -->
      <div class="iconContainer">
        <div>
          <svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24"
fill="currentColor" class="w-6 h-6">
```

```

        <path fill-rule="evenodd"
            d="M5.25 2.25a3 3 0 ...0 000 2.25z"
            clip-rule="evenodd" />
    </svg>
</div>
<div>
    <p> Type : <span id="type"></span></p>
</div>
</div>
<!-- participants -->
<div class="iconContainer">
    <div>
        <svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24"
fill="currentColor" class="w-6 h-6 ">
            <path
                d="M4.5 6.375a4.125 ...011.71 5.157v.003z" />
            </svg>
        </div>
        <div>Participants : <span id="participants"></span></div>
    </div>
    <!-- Price -->
    <div class="iconContainer">
        <div>
            <svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24"
fill="currentColor" class="w-6 h-6 ">
                <path
                    d="M10.464 8.746c.227-.18.497-...0 01-.921.42z" />
                <path fill-rule="evenodd"
                    d="M12 2.25c-5.385 0-9.75 ...0 00-1.719-.755V6z"
                    clip-rule="evenodd" />
                </svg>
            </div>
            <div class="">Price : $<span id="price"></span></div>
        </div>
        <!-- Link -->
        <div class="iconContainer w-full">
            <div class="self-start">
                <svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24"
fill="currentColor" class="w-6 h-6">
                    <path fill-rule="evenodd"
                        d="M19.902 4.098a3.75 3.75 ...0 01-.354-1z"
                        clip-rule="evenodd" />
                    </svg>
                </div>
                <div class="">
                    <p class="">Link : <span id="link"></span></p>
                </div>
            </div>
        </div>
    </div>

```

```
    </div>
  </div>
</div>

<script src="./app.js"></script>

</body>

</html>
```

- [app.js](#) (ex1. Activity Suggestion)

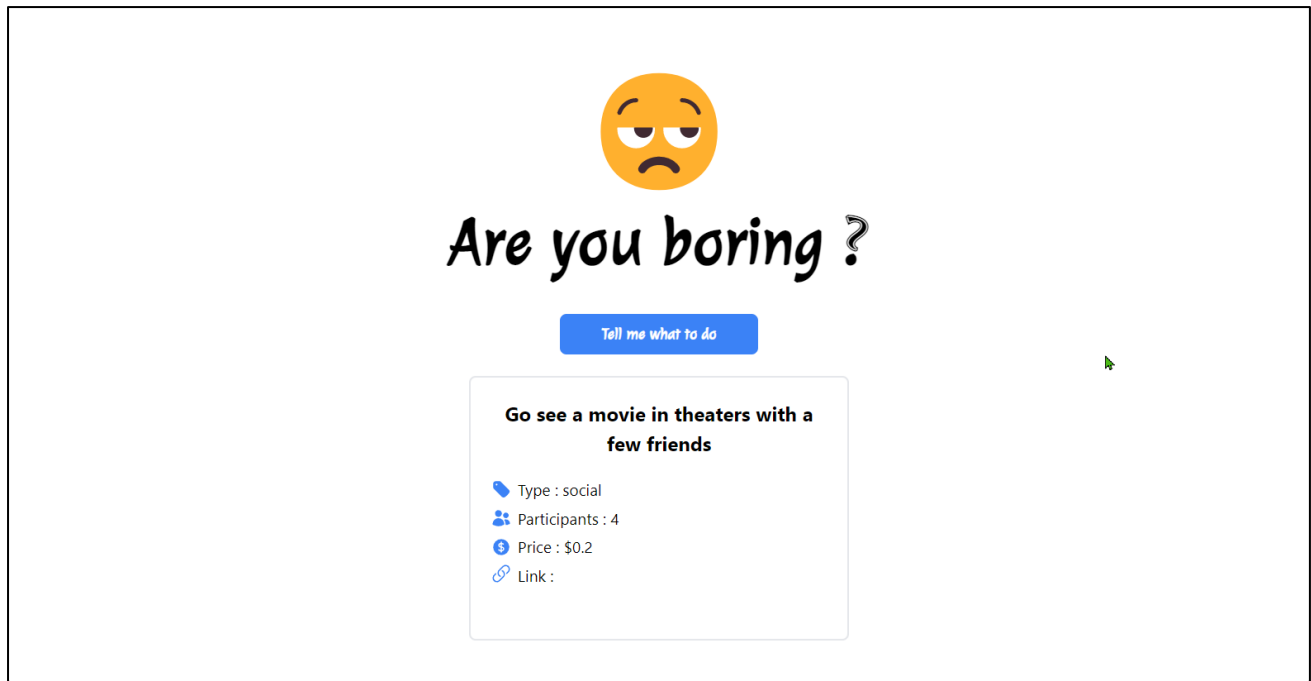
```
const activity = document.getElementById("activity");
const activityContainer = document.getElementById("activityContainer");

const activityName = document.getElementById("activityName");
const type = document.getElementById("type");
const participants = document.getElementById("participants");
const price = document.getElementById("price");
const link = document.getElementById("link");
const loadingContainer = document.getElementById("loadingContainer");
const loadingStop = document.getElementById("loadingStop");

function getMeAnActivity() {
  loadingContainer.style.height = "100%";
  loadingText.hidden = false;
  activity.hidden = true;

  fetch("https://www.boredapi.com/api/activity")
    .then((res) => {
      res.json().then((data) => {
        activityName.innerHTML = `${data["activity"]}`;
        type.innerHTML = data["type"];
        participants.innerHTML = data["participants"];
        price.innerHTML = data["price"];
        link.innerText = data["link"];
        console.log(data);

        activity.hidden = false;
        loadingContainer.style.height = "0px";
        loadingText.hidden = true;
      })
    })
    .catch((err) => {
      console.log(err);
    })
}
```



## ex2. Gender Guessing

- [index.html](#) (ex2. Gender Guessing)

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Gender Guessing</title>
  <script src="./tailwindcss.js"></script>
  <link rel="stylesheet" href="./styles.css">
</head>

<body>

  <div class="pt-[60px]">
    <center>
      <div>
        <div class="text-[9rem]">🙄</div>
        <h1 class="text-[3rem] sm:text-[5rem] font-bold" style="font-family:
'Julee', cursive;">I know your <span
        class="text-blue-500">Gender</span></h1>
        <div class="mb-4 text-[1.5rem] py-4">
          <input type="text" id="username" name="" class="border-2 rounded-lg h-10
pl-2" placeholder="Tell me your name"
```

```

        required>
        <input type="submit" id="submitBtn" class="bg-blue-500 h-10 text-white px-
4 rounded-lg" onclick="startGuessing()">
    </div>
</div>

<!-- data -->
<div class="py-4">
    <div id="loading" class="mt-[70px]" hidden>
        <div class="lds-ripple">
            <div></div>
            <div></div>
        </div>
    </div>
    <div id="data" hidden class=" bg-[#F4F4F4] border-2 w-[460px] h-[220px]
rounded-2xl py-4">
        <p id="name" class="font-bold text-[2rem] mb-4"></p>
        <p id="gender" class="font-bold text-[#F06E24] text-[3.2rem]"></p>
        <p id="percentage" class="font-bold text-[#72A AFF] text-[1.8rem]"></p>
    </div>

</div>
</center>
</div>

<script src="./app.js"></script>
</body>

</html>

```

- [app.js](#) (ex2. Gender Guessing)

```

const username = document.getElementById("username");
const loading = document.getElementById("loading");
const Data = document.getElementById("data");

var guessing = {
    name: document.getElementById("name"),
    gender: document.getElementById("gender"),
    percentage: document.getElementById("percentage")
}

function startGuessing() {
    var url = "https://api.genderize.io?name=" + username.value;
    loading.hidden = false;
    Data.hidden = true;

    fetch(url)

```


```

.then((res) => {
  res.json().then((data) => {
    guessing.name.innerHTML = data["name"];
    if (data["gender"] == null && data["probability"] == 0) {
      guessing.gender.innerHTML = "Sorry, I have no idea for this name.";
      guessing.gender.style.fontSize = "1.5rem";
      guessing.percentage.innerHTML = "😞";
      guessing.percentage.style.fontSize = "3.8rem";
    }
    else {
      guessing.gender.innerHTML = data["gender"].charAt(0).toUpperCase() +
data["gender"].slice(1);
      guessing.percentage.innerHTML = (data["probability"] * 100) + "%";
      guessing.gender.style.fontSize = "";
      guessing.percentage.style.fontSize = "";
    }

    loading.hidden = true;
    Data.hidden = false;
    username.value = "";
  })
})
.catch((err) => {
  alert("error");
  console.log(err);
})
})

// when the user press enter to submit
username.addEventListener("keyup", (event) => {
  if (event.key === "Enter") {
    event.preventDefault();
    document.getElementById("submitBtn").click();
  }
})

```



## I know your Gender

**kakada**

**Male**

71%

## ex3. Nationality Guessing

- [index.html](#) (ex3. Nationality Guessing)

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Nationality Guessing</title>
  <script src="./tailwindcss.js"></script>
  <link rel="stylesheet" href="./styles.css">
</head>

<body>
  <div class="mt-10">
    <center>
      <div class="mb-6">
        <p class="text-[8rem]">🌐</p>
        <p class="text-[3rem] sm:text-[4rem] font-bold juleeFont">I know your
          <span class="text-blue-500">Home</span>
        </p>
        <div>
          <input type="text" id="username" name="" class="border-2 rounded-lg h-10
pl-2 text-[1.2rem] mr-2"
            placeholder="Tell me your name" required>
          <button id="submitBtn" class="bg-blue-500 h-10 text-white px-4 rounded-lg
text-[1.3rem]"
            onclick="startGuessing()">Guess</button>
        </div>
      </div>
      <!-- loading -->
      <div id="loading" class="mt-24 hidden">
        <div class="lds-hourglass"></div>
      </div>
      <!-- output -->
      <div class="text-[1.3rem] font-bold" id="output" hidden>
        <div class="text-[2rem] juleeFont" id="nameInput"></div>
        <!-- datas -->
        <div id="results"></div>
      </div>
    </center>
  </div>
  <script src="./app.js"></script>
</body>
</html>
```



- [app.js](#) (ex3. Nationality Guessing)

```
const results = document.getElementById("results");
const username = document.getElementById("username");
const nameInput = document.getElementById("nameInput");
const submitBtn = document.getElementById("submitBtn");
const loading = document.getElementById("loading");
const output = document.getElementById("output");

function toPercentage(num) {
  return (num * 100).toFixed(2);
}


// when there are data.country.length > 0
function guessed(data) {
  for (let i = 0; i < data.country.length; i++) {
    results.innerHTML += `
      <div class="flex w-[330px] justify-between h-10 border-2 rounded-xl items-center
px-4 bg-[#F4F4F4] mt-1">
        <p>${data.country[i].country_id}</p>
        <p class="text-[#FF5C00]">${toPercentage(data.country[i].probability)}%</p>
      </div>
    `;
  }
}

// when there are data.country.length = 0
function cannotGuess() {
  results.innerHTML = `
    <div class="w-[330px] border-2 rounded-xl py-4 bg-[#F4F4F4] mt-4">
      <p class="text-[#FF5C00] text-[1.5rem]">Sorry, I have no idea.</p>
      <p class="text-[4rem]">🙄</p>
    </div>
  `;
}

function startGuessing() {
  results.innerHTML = "";
  loading.hidden = false;
  output.hidden = true;
  fetch(`https://api.nationalize.io?name=${username.value}`)
    .then((res) => {
      res.json().then((data) => {
        nameInput.innerHTML = username.value;
        data.country.length == 0 ? cannotGuess() : guessed(data);
        username.value = "";
        loading.hidden = true;
        output.hidden = false;
      });
    });
}
```

```
    })
  })
  .catch((err) => {
    console.log(err);
  })
}

// when the user enter to input the name instead of click the button
username.addEventListener("keyup", (event) => {
  if (event.key === "Enter") {
    event.preventDefault();
    submitBtn.click();
  }
})
})
```



# I know your Home

kakada

KH	92.70%
TH	1.00%
BJ	0.90%
CM	0.90%
KR	0.90%

## ex4. University List

- [index.html](#) (ex4. University List)

```
<!DOCTYPE html>
<html lang="en">

<head>
```

```

<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>University List</title>
<script src="./tailwindcss.js"></script>
<link rel="stylesheet" href="./styles.css">
</head>

<!-- bg-blue-500 sm:bg-black md:bg-green-500 lg:bg-red-500
xl:bg-[#D3662D] 2xl:bg-[#FFFF00] 3xl:bg-[#A020F0] -->

<body class="">
  <div>
    <!-- header -->
    <div class="header shadow-xl shadow-white">
      <center>
        <p class="text-[8rem]">🏛️</p>
        <p class="text-[3rem] sm:text-[4rem] font-bold juleeFont px-8 xl:px-0">
          Which Univ. Do you want to study?
        </p>
        <div>
          <select name="unis" id="unis" onchange="displayUnivs()"
            class="border-2 rounded-lg h-12 pl-2 text-[1.5rem] mr-2 sm:w-[500px] w-
[70%]">
            <option selected="selected" value="Cambodia">Cambodia</option>
            <option value="Thailand">Thailand</option>
            <!-- <option value="France">France</option> -->
            <option value="Canada">Canada</option>
            <option value="Singapore">Singapore</option>
            <option value="Ukraine">Ukraine</option>
            <option value="Australia">Australia</option>
            <option value="Switzerland">Switzerland</option>
            <!-- <option value="Japan">Japan</option> -->
          </select>
        </div>
      </center>
    </div>

    <!-- loading -->
    <div id="loading" class="pt-10" hidden>
      <center>
        <div class="lds-ellipsis">
          <div></div>
          <div></div>
          <div></div>
          <div></div>
        </div>
      </center>
    </div>
  </div>

```

```

    </div>
    <!-- output -->
    <div class=" w-[90%] flex justify-center mx-auto overflow-auto flex-wrap gap-10
my-5" id="uniList" hidden>
    </div>
  </div>
  <script src="./app.js"></script>
</body>

</html>

```

- [app.js](#) (ex4. University List)

```


const unis = document.getElementById("unis");
const uniList = document.getElementById("uniList");
const loading = document.getElementById("loading");

function displayAUni(uni) {
  uniList.innerHTML += `
    <div class="items-center border-2 w-[280px] text-[1.1rem] rounded-xl bg-[#F4F4F4]
py-2 text-center px-3">
      <p class="font-bold text-[1.2rem]">${uni.name}</p>
      <p class="mb-3">(${uni.country} - ${uni.alpha_two_code})</p>
      <a href="${uni.web_pages}" class="" target="_blank">
        <span class="linkUni flex gap-2 text-blue-500 items-center justify-center">
          <svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24"
            fill="currentColor" class="w-6 h-6">
            <path
              d="M15.75 8.25a.75.75 0 0 1 .75.75 0 0 1-.75.75 0 0 1-.75-.75 0 0 1-.75-.75 0 0 1.75z" />
            <path fill-rule="evenodd"
              d="M12 2.25c-5.385 0-9.75 4.375-9.75 9.75 0 5.385 4.375 9.75 9.75 9.75 5.385 0 9.75-4.375 9.75-9.75 0-5.385-4.375-9.75-9.75-9.75" />
            </path>
            </svg>
            <p>${uni.web_pages}</p>
          </span>
        </a>
      </div>
    `;
}

function displayUnivs() {
  uniList.innerHTML = "";
  loading.hidden = false;
  uniList.hidden = true;
  fetch(`http://universities.hipolabs.com/search?country=${unis.value}`)
    .then(async (res) => {
      const data = await res.json();
    });
}

```

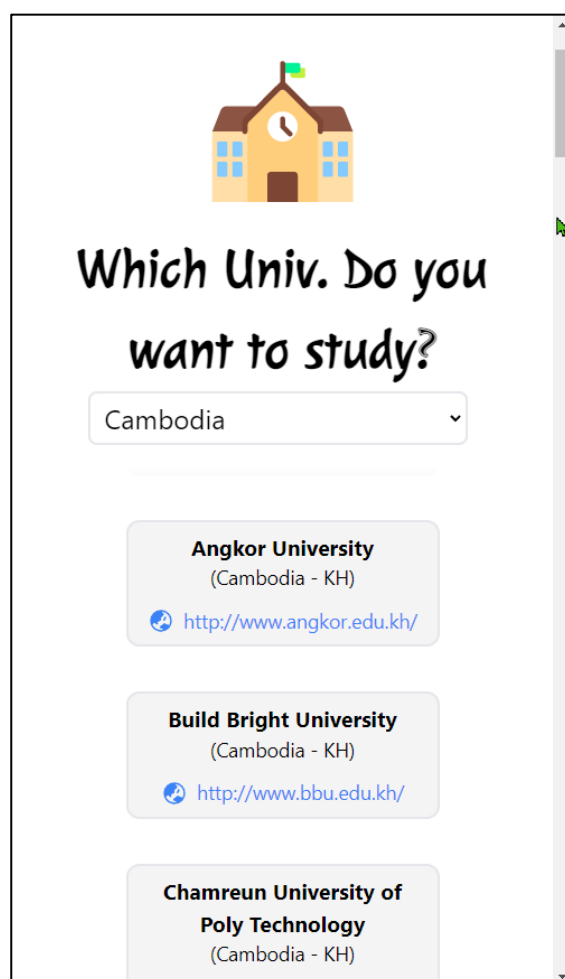
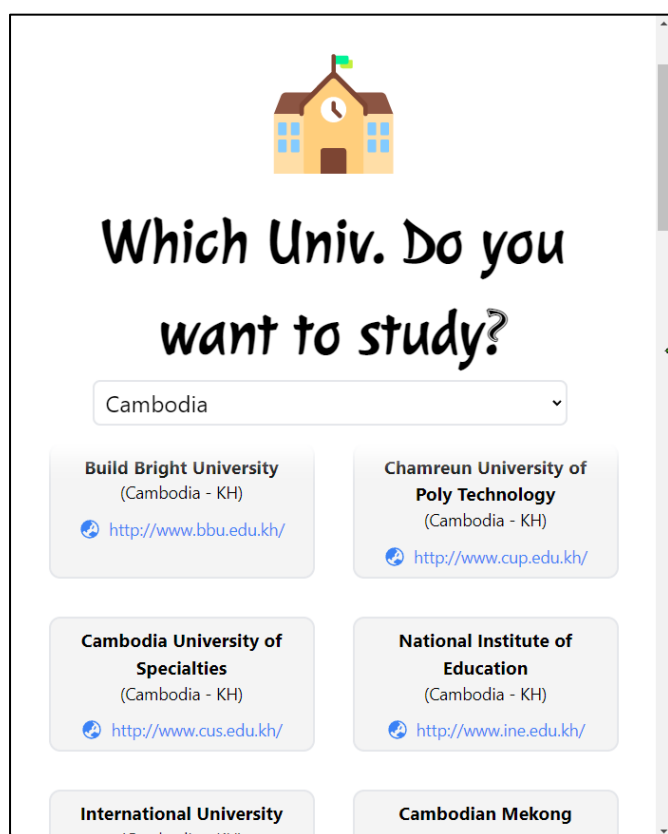
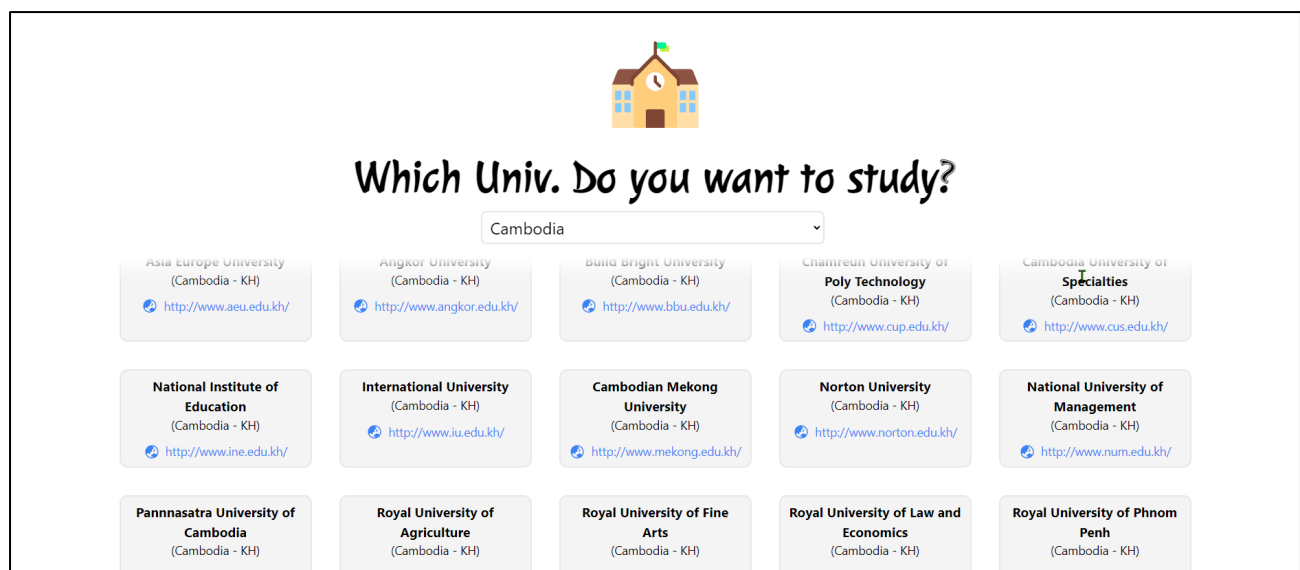
```
for (let uni of data) {  
  displayAUni(uni);  
  loading.hidden = true;  
  uniList.hidden = false;  
}  
}).catch((err) => {  
  alert("error");  
  console.log(err);  
})  
}  
  
displayUnivs();
```



## Which Univ. Do you want to study?

Cambodia ▾

<b>Asia Europe University</b> (Cambodia - KH) <a href="http://www.aeu.edu.kh/">http://www.aeu.edu.kh/</a>	<b>Angkor University</b> (Cambodia - KH) <a href="http://www.angkor.edu.kh/">http://www.angkor.edu.kh/</a>	<b>Build Bright University</b> (Cambodia - KH) <a href="http://www.bbu.edu.kh/">http://www.bbu.edu.kh/</a>
<b>Chamreun University of Poly Technology</b> (Cambodia - KH) <a href="http://www.cup.edu.kh/">http://www.cup.edu.kh/</a>	<b>Cambodia University of Specialties</b> (Cambodia - KH) <a href="http://www.cus.edu.kh/">http://www.cus.edu.kh/</a>	<b>National Institute of Education</b> (Cambodia - KH) <a href="http://www.ine.edu.kh/">http://www.ine.edu.kh/</a>
<b>International University</b> (Cambodia - KH) <a href="http://www.iu.edu.kh/">http://www.iu.edu.kh/</a>	<b>Cambodian Mekong University</b> (Cambodia - KH)	<b>Norton University</b> (Cambodia - KH) <a href="http://www.norton.edu.kh/">http://www.norton.edu.kh/</a>



## ex5. Book Store

- [index.html](#) (ex5. Book Store)

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Book Store</title>
  <script src="./tailwindcss.js"></script>
  <link rel="stylesheet" href="./styles.css">
</head>

<body class="">
  <div class="flex">
    <!-- input -->
    <div class="min-w-[280px]">
      <div class="w-full bg-slate-100 border-2 rounded-lg p-8 min-h-[270px] h-[100vh]">
        <div>
          <label for="name">Name : </label> <br>
          <input type="text" id="name" name="name" value="" placeholder="Coding programming" class="inputForm">
        </div>
        <div>
          <label for="category">Category : </label> <br>
          <input type="text" id="category" name="category" value="" placeholder="Coding" class="inputForm">
        </div>
        <div>
          <label for="price">Price : </label> <br>
          <input type="number" id="price" name="price" value="" placeholder="1,000 riel" class="inputForm">
        </div>
        <div>
          <button type="submit" class="px-5 rounded-lg bg-blue-500 text-white onclick="addANewBook()" id="submitBtn">Add</button>
        </div>
      </div>
    </div>

    <!-- books -->
    <div id="bookStore" class="flex h-[100vh] min-h-[270px] flex-wrap gap-1 overflow-auto p-1">
      <!-- a book -->
```

```

    </div>
  </div>

  <script src="./app.js"></script>
</body>

</html>

```

- [app.js](#) (ex5. Book Store)

```

const bookstore = document.getElementById("bookStore");
const newBook = {
  title: document.getElementById("name"),
  category: document.getElementById("category"),
  price: document.getElementById("price")
}

var localBooks = localStorage.getItem("books") != null ?
JSON.parse(localStorage.getItem("books")) : [];

// random color
function randomColor() {
  const hexValue = [1, 2, 3, 4, 5, 6, 7, 8, 9, 'a', 'b', 'c', 'd', 'e', 'f'];
  var color = '';
  for (let i = 0; i < 6; i++) {
    var index = Math.floor(Math.random() * hexValue.length);
    color += hexValue[index];
  }
  return color;
}

// for a book that create and from localStorage
function showABookLocal(book) {
  const params =
`?title=${book.title}&category=${book.category}&price=${book.price}&img=${book.urlImage}`;
  bookstore.innerHTML += `
  <div class="w-[200px] border-2 rounded-lg p-[25px]">
    
    <h3 class="font-bold mt-6">${book.title}</h3>
    <p>Category : ${book.category}</p>
    <p>Price : ${book.price}</p>
    <a href="./view.html${params}" target="_blank" class="text-blue-500">see</a>
  </div>
  `;
}

```



```
function displayLocalBook() {
  for (let book of localBooks) {
    showABookLocal(book);
  }
}

fetch("https://jsonplaceholder.typicode.com/photos")
  .then(async (res) => {
    const books = await res.json();
    for (let i = 0; i < 30; i++) {
      showABookApi(books[i]);
    }
    displayLocalBook();
  }).catch((err) => {
    console.log(err);
  })

// for a book that get from API
function showABookApi(book) {
  bookStore.innerHTML += `
<div class="w-[200px] border-2 rounded-lg p-[25px]">
  
  <h3 class="font-bold mt-6">${book.title}</h3>
  <p>Album id : ${book.albumId}</p>
  <p>Category : 1</p>
  <a href="./view.html?id=${book.id}" target="_blank" class="text-blue-500">
    See
  </a>
</div>
`
}

function resetForm() {
  newBook.title.value = "";
  newBook.category.value = "";
  newBook.price.value = "";
}

function addANewBook() {
  var book = {};
  book["title"] = document.getElementById("name").value;
  book["category"] = document.getElementById("category").value;
  book["price"] = document.getElementById("price").value;
  book["urlImage"] = `https://via.placeholder.com/150/${randomColor()}`;
  localBooks.push(book);
  saveToLocalstorage(localBooks);
}
```

```

showABookLocal(book);
resetForm();
}

const saveToLocalStorage = (books) => {
  localStorage.setItem("books", JSON.stringify(books));
}

```

- [view.html](#) (ex5. Book Store)

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>View</title>
  <script src="./tailwindcss.js"></script>
</head>
<body>
  <center>
    <div id="view" class="text-[1.3rem]">
    </div>
  </center>
  <script>
    const keyValue = window.location.search;
    const urlParams = new URLSearchParams(keyValue);
    const bookId = urlParams.get("id");
    const localBook = {
      title : urlParams.get("title"),
      category : urlParams.get("category"),
      price : urlParams.get("price"),
      imgUrl : urlParams.get("img"),
    }

    const view = document.getElementById("view");

    localBook.title !== null ? viewDetailABookLocal(localBook) : viewInHtmlApi();

    function viewInHtmlApi() {
      fetch(`https://jsonplaceholder.typicode.com/photos/${bookId}`)
        .then((res) => {
          res.json().then((data) => {
            viewDetailABookApi(data);
          })
        })
      })
      .catch((err) => {

```

```
        console.log(err);
    })
}

function viewDetailABookApi(book) {
    view.innerHTML = `
    <div class="bg-[#474E5D] text-white p-12">
    <h2 class="text-[2rem]">${book.title}</h2>
    <p >${book.id}</p>
    <p>Resize the browser windoow to see that this page is responsive by the
way.</p>
    </div>
    <div class="">
        <h3 class="my-4">${book.id}</h3>
        
    </div>
    `
}

function viewDetailABookLocal(book) {
    view.innerHTML = `
    <div class="bg-[#474E5D] text-white p-12">
    <h2 class="text-[2rem]">${book.title}</h2>
    <p>Category : ${book.category}</p>
    <p>Resize the browser windoow to see that this page is responsive by the
way.</p>
    </div>
    <div class="">
        <h3 class="my-4">Price : ${book.price}</h3>
        
    </div>
    `
}

</script>
</body>
</html>
```

