



INSTITUTE OF TECHNOLOGY OF CAMBODIA



DEPARTEMENT OF INFORMATION AND COMMUNICATION ENGINEERING

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TP03

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TP03

Github url: <https://github.com/Tuon-Sreynit/Internet-Programming/tree/tp-ip/TP03>

Ex1






Src:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>To-Do List With LocalStorage</title>
8   <link rel="stylesheet" href="./Ex1.css">
9   <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.2.1/css/all.min.css">
10 </head>
11 <body>
12   <div class="container">
13     <div class="row1">To-do List with LocalStorage</div>
14     <div class="row2">
15       <div class="col">Task title<input class="input" placeholder="Enter title" id="taskTitle"></div>
16       <div class="col">Assignee<input class="input" placeholder="Enter Assignee" id="assignee"></div>
17       <div class="col">Dateline<input class="input" placeholder="Enter dateline" id="dateline"></div>
18       <div class="col">&nbsp;<br><input onclick="addData()" type="submit" id="add-newTask" value="Add" class="button">
19     </div>
20   </div>
21   <script src="./Ex1.js"></script>
22 </body>
23 </html>
```

```
1  *{
2    margin:0;
3    padding:0;
4    box-sizing:border-box;
5  }
6  .container{
7    width: 100%;
8    height: fit-content;
9    /* border: 5px solid black; */
10   /* margin: auto; */
11   padding: 0 1rem;
12   padding-bottom: 1rem;
13   position : absolute;
14   transform: translate(-50%,-50%);
15   top:50%;
16   left:50%;
17 }
18 }
19 .row1{
20   text-align: center;
21   justify-content: center;
22   align-items: center;
23   width: 100%;
24   padding: 1rem 0;
25   font-size: 1.7rem;
26 }
27 }
28 .row2{
29   background-color: #d9d9d9;
30   display: flex;
31   align-items: center;
32   border-radius: 7px;
33 }
34 .row2 + .row{
35   margin-top: 10px;
36 }
37 .col{
38   margin-left: 5rem;
39   width: 100%;
40   padding: 7px;
41   text-align: center;
42   font-size: 1.2rem;
43 }
44 }
45 .row{
46   display: flex;
47   border-radius: 5px;
48   /* background-color: #d9d9d9; */
49   border: 1px solid gray;
50 }
51 }
52 .row+.row{
53   margin-top:10px;
54 }
55 .input{
56   width: 100%;
57   height: 60%;
58   border-radius: 5px;
59   text-align: center;
60   font-size: 1rem;
61 }
62 .button{
63   /* width: 50%; */
64   border-radius: 5px;
65   background-color:#0272b0;
66   padding: 0 1rem;
67   /* margin-left: 5rem; */
68 }
69 }
```

```
1 // Create a new project
2 let newProject = {
3   title: 'New Project',
4   assignee: 'Tola',
5   deadline: '2022-02-24',
6 };
7
8 // Add the new project to the list
9 projects.push(newProject);
10
11 // Save the projects to local storage
12 localStorage.setItem('projects', JSON.stringify(projects));
13
14 // Get the projects from local storage
15 let projectsFromStorage = localStorage.getItem('projects');
16
17 // Parse the JSON string to an array of objects
18 projectsFromStorage ? projectsFromStorage : [];
19
20 // Display the projects in the table
21 displayProjects(projectsFromStorage);
22
23 // Add a new project
24 document.getElementById('add-project').addEventListener('click', function() {
25   // Get the title, assignee, and deadline
26   let title = document.getElementById('title').value;
27   let assignee = document.getElementById('assignee').value;
28   let deadline = document.getElementById('deadline').value;
29
30   // Create a new project object
31   let newProject = {
32     title: title,
33     assignee: assignee,
34     deadline: deadline,
35   };
36
37   // Add the new project to the list
38   projects.push(newProject);
39
40   // Save the projects to local storage
41   localStorage.setItem('projects', JSON.stringify(projects));
42
43   // Display the projects in the table
44   displayProjects(projectsFromStorage);
45
46   // Clear the input fields
47   document.getElementById('title').value = '';
48   document.getElementById('assignee').value = '';
49   document.getElementById('deadline').value = '';
50 });
```

Output:

To-do List with LocalStorage			
Task title	Assignee	Dateline	
<input type="text" value="Enter title"/>	<input type="text" value="Enter Assignee"/>	<input type="text" value="Enter dateline"/>	<input type="button" value="Add"/>
Create Project	Tola	24/2/2022	
Define Project requirement	Makara	2/3/2022	
Deploy Project	Kompheak	2/8/2022	
Deploy Project	Minea	2/9/2022	
Hosting	Mesa	2/12/2022	

Ex2

Src:



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>To-Do_list With SessionStorage</title>
8   <link rel="stylesheet" href="Ex2.css">
9 </head>
10 <body>
11   <div class="container">
12     <div class="row1">To-do List with SessionStorage</div>
13     <div class="row2">
14       <div class="col">Task title<input class="input" placeholder="Enter title" id="taskTitle"></div>
15       <div class="col">Assignee<input class="input" placeholder="Enter Assignee" id="assignee"></div>
16       <div class="col">Dateline<input class="input" placeholder="Enter dateline" id="dateline"></div>
17       <div class="col">&nbsp;<br><input onclick="addData()" type="submit" id="add-newTask" value="Add" class="button">
18     </div>
19   </div>
20 </body>
21 </html>
```

```
1  *{
2      margin:0;
3      padding:0;
4      box-sizing:border-box;
5  }
6  .container{
7      width: 100%;
8      height: fit-content;
9      /* border: 5px solid black; */
10     /* margin: auto; */
11     padding: 0 1rem;
12     padding-bottom: 1rem;
13     position : absolute;
14     transform: translate(-50%,-50%);
15     top:50%;
16     left:50%;
17 }
18 }
19 .row1{
20     text-align: center;
21     justify-content: center;
22     align-items: center;
23     width: 100%;
24     padding: 1rem 0;
25     font-size: 1.7rem;
26 }
27 }
28 .row2{
29     background-color: #d9d9d9;
30     display: flex;
31     align-items: center;
32     border-radius: 7px;
33 }
34 .row2 + .row{
35     margin-top: 10px;
36 }
37 .col{
38     margin-left: 5rem;
39     width: 100%;
40     padding: 7px;
41     text-align: center;
42     font-size: 1.2rem;
43 }
44 }
45 .row{
46     display: flex;
47     border-radius: 5px;
48     /* background-color: #d9d9d9; */
49     border: 1px solid gray;
50 }
51 }
52 .row+.row{
53     margin-top:10px;
54 }
55 .input{
56     width: 100%;
57     height: 60%;
58     border-radius: 5px;
59     text-align: center;
60     font-size: 1rem;
61 }
62 .button{
63     /* width: 50%; */
64     border-radius: 5px;
65     background-color:#0272b0;
66     padding: 0 1rem;
67     /* margin-left: 5rem; */
68 }
69 }
```

```

1  # Import the necessary modules
2  import sys
3  import os
4  import random
5  import time
6  import math
7  import numpy as np
8  import pandas as pd
9  import matplotlib.pyplot as plt
10 import seaborn as sns
11
12 # Set the random seed for reproducibility
13 seed = 42
14 random.seed(seed)
15
16 # Generate synthetic data
17 n_samples = 1000
18 n_features = 10
19
20 # Create a list of feature names
21 feature_names = [f'feature_{i}' for i in range(n_features)]
22
23 # Generate the data
24 X = np.zeros((n_samples, n_features))
25 y = np.zeros(n_samples)
26
27 # Add some noise to the data
28 for i in range(n_samples):
29     for j in range(n_features):
30         X[i, j] = random.random() * 10
31     y[i] = sum(X[i, :]) * 0.5 + random.random()
32
33 # Split the data into training and testing sets
34 train_size = 0.8
35 train_indices = range(n_samples * train_size)
36 test_indices = range(n_samples * train_size, n_samples)
37
38 # Train the model
39 # (This is a placeholder for the actual training code)
40
41 # Evaluate the model
42 # (This is a placeholder for the actual evaluation code)
43
44 # Print the results
45 print("Training and testing completed successfully.")
46
47 # End of the script
48

```

Output:

To-do List with sessionStorage

Task title

Enter title

Assignee

Enter Assignee

Dateline

Enter dateline

Add

Ex3

Src:


```
1
2 <!DOCTYPE html>
3 <html lang="en">
4 <head>
5   <meta charset="UTF-8">
6   <meta http-equiv="X-UA-Compatible" content="IE=edge">
7   <meta name="viewport" content="width=device-width, initial-scale=1.0">
8   <title>Cookie</title>
9   <link rel="stylesheet" href="./Ex3.css">
10  <script src="./Ex3.js" defer></script>
11  <script src="https://cdn.tailwindcss.com"></script>
12 </head>
13 <body class="flex justify-center items-center w-full h-[100vh]">
14   <div class="bg-[#ffffff] w-[600px] h-[650px] border-solid">
15     <div class="justify-center items-center flex h-[100px] font-bold">
16       <h1>Cookie Management</h1>
17     </div>
18     <div class="bg-gray-300 w-[600px] flex rounded-xl">
19       <div class="p-2 text-center">
20         <h2>Key</h2>
21         <input type="text" placeholder="Key" id="Key" class="h-10 w-full border-black border-2 rounded-xl">
22       </div>
23       <div class="p-2 text-center">
24         <h2>Value</h2>
25         <input type="text" placeholder="value" id="Value" class="h-10 w-full border-black border-2 rounded-xl">
26       </div>
27       <div class="p-2 text-center">
28         <h2>Expired</h2>
29         <input type="date" id="Expired" class="h-10 w-full border-black border-2 rounded-xl">
30       </div>
31       <div class="p-2 text-center">
32         <input type="button" id="add-btn" class="h-10 w-16 bg-blue-700 rounded-xl text-cyan-50 mt-6" value="Add">
33       </div>
34     </div>
35   <div id="list-wrapper"></div>
36 </div>
37 </body>
38 </html>
```



```
1  body{
2      font-family: "Comic Sans MS", cursive;
3  }
4  .row {
5      display: flex;
6      justify-content: space-between;
7      padding: 0.8rem 1rem 0.8rem 1rem;
8      align-items: center;
9      height: 1.5rem;
10     border: 1.5px solid rgb(165, 165, 165);
11     border-radius: 1rem;
12     margin-top: 1rem;
13
14 }
15
16 .expiredButton {
17     border-radius: 1.5rem;
18     background-color: rgb(155, 39, 39);
19     color: white;
20     font-weight: bold;
21     width: fit-content;
22     height: 2.5rem;
23     padding: 0.2rem 2rem 0.2rem 2rem;
24     display: flex;
25     flex-direction: row;
26     justify-content: center;
27     align-items: center;
28 }
```

```

1 var NewKey = document.getElementById("Key");
2 var NewValue = document.getElementById("Value");
3 var NewExpired = document.getElementById("Expired");
4 var listWrapper = document.getElementById("list-wrapper");
5 var addButton=document.getElementById("add-btn");
6 var output = document.getElementById("output");
7
8 function renderList () {
9   let listContent="";
10  todoList.forEach(function callback(todo, index) {
11    listContent += `
12    <div id="output" class="output bg-white flex items-center justify-center h-14 mt-2 mb-2 rounded-xl p-4 border-black border-2">
13      <div class="input-Key w-1/4 ml-3 mr-3">
14        <div>${todo.NewKey}</div>
15      </div>
16      <div class="input-Value w-1/4 ml-3 mr-3">
17        <div>${todo.NewValue}</div>
18      </div>
19      <div class="input-Expired w-fit ml-3 mr-3">
20        <div>Set expired</div>
21        <input type="button" id="${index}" class="h-10 w-16 bg-red-700 rounded-xl text-cyan-50" value="Delete" onclick="remove('${todo.id}')">
22      </div>
23    </div>
24    `;
25  });
26  //listEle.innerHTML = listContent;
27 }
28 addButton.addEventListener("click", () =>{
29   renderList();
30   let pareDate = NewExpired.value.split("-"); //need to parse Date and get each value
31
32   let cookie = NewKey.value + "=" + NewValue.value + "; expires=" + new Date(pareDate[0], pareDate[1], pareDate[2]).toUTCString();
33   console.log(cookie);
34   document.cookie = cookie;
35 });
36
37 (function restoreData_Cookie() {
38   let pareCookie=document.cookie.split("; ");
39   console.log(pareCookie)
40   for(let x of pareCookie){
41     NewKey.value=x.split("=")[0];
42     NewValue.value=x.split("=")[1];
43     renderList();
44     console.log(x);
45   } //expected a lot of error...
46 })();
47
48 function setCookie(name, value, options = {}) {
49
50   options = {
51     path: '/',
52     ...options
53   };
54
55   if (options.expires instanceof date) {
56     options.expires = options.expires.toUTCString();
57   }
58
59   let updatedCookie = encodeURIComponent(name) + "=" + encodeURIComponent(value);
60
61   for (let optionKey in options) {
62     updatedCookie += " " + optionKey;
63     let optionValue = options[optionKey];
64     if (optionValue !== true) {
65       updatedCookie += " " + optionValue;
66     }
67   }
68
69   document.cookie = updatedCookie;
70 }
71
72 function deleteCookie(name) {
73   setCookie(name, "", {
74     'max-age': -1
75   })
76 }
77
78 function deleteRow(currentNode) {
79   let parent = currentNode.parentNode;
80   deleteCookie(parent.id);
81   parent.remove();
82 }

```

Output:

Cookie Management

Key	Value	Expired	
<input type="text" value="Key"/>	<input type="text" value="undefined"/>	<input type="text" value="mm / dd / yyyy"/>	<input type="button" value="Add"/>

Ex4

Src:

```
1 <html lang="en">
2 <head>
3   <meta charset="UTF-8">
4   <meta http-equiv="X-UA-Compatible" content="IE=edge">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <link rel="stylesheet" href="./Ex4.css">
7   <script src="./Ex4.js" defer></script>
8   <title>Book shop CRUD with Local storage</title>
9 </head>
10 <body>
11   <main>
12     <div class="form" style="--bg-color:#ebebeb;">
13       <form action="" data-status="0" data-id="-1">
14         <fieldset>
15           <legend>Add new book</legend>
16           <div class="input">
17             <label for="Name">Name:</label>
18             <input type="text" id="Name" placeholder="c programing" required>
19           </div>
20           <div class="input">
21             <label for="Category">Category:</label>
22             <input type="text" id="Category" placeholder="Coding" required>
23           </div>
24           <div class="input">
25             <label for="Price">Price:</label>
26             <input type="number" id="Price" placeholder="1000 Riel" min="0" step="0.01" required>
27           </div>
28           <input type="submit" value="Add" id="Add">
29         </fieldset>
30       </form>
31     </div>
32     <div class="dashbord" style="--bg-color:#ebebeb;">
33   </div>
34 </main>
35 </body>
36 </html>
```

```

1 @import url("https://fonts.googleapis.com/css2?family=Oswald&display=swap");
2 * {
3   margin: 0;
4   padding: 0;
5   box-sizing: border-box;
6   font-family: "Helvetica", sans-serif;
7 }
8
9 body {
10  width: 100%;
11  height: 100vh;
12 }
13 body main {
14  width: 100%;
15  height: 100%;
16  display: flex;
17  gap: 0.7rem;
18 }
19 body main > div {
20  width: 100%;
21  background-color: var(--bg-color);
22  box-shadow: 0 0 10px #000000;
23 }
24 body main .form {
25   flex: 1;
26 }
27 @media only screen and (max-width: 800px) {
28   body main .form {
29     flex: 2;
30   }
31 }
32 body main .form form {
33   padding: 0.5rem;
34 }
35 body main .form form fieldset {
36   border: 2px solid black;
37   border-radius: 4px;
38   padding: 0.6rem 0.8rem;
39   display: flex;
40   flex-direction: column;
41   gap: 0.2rem;
42 }
43 body main .form form fieldset legend {
44   text-align: center;
45 }
46 body main .form form fieldset .input {
47   display: flex;
48   flex-direction: column;
49   gap: 0.3rem;
50 }
51 body main .form form fieldset .input input {
52   width: 100%;
53   border: none;
54   outline: none;
55   border-radius: 2px;
56   padding: 0.3rem 0.5rem;
57 }
58 body main .form form fieldset .input input::-moz-placeholder {
59   text-transform: uppercase;
60 }
61 body main .form form fieldset .input input::ms-input-placeholder {
62   text-transform: uppercase;
63 }
64 body main .form form fieldset .input input::placeholder {
65   text-transform: uppercase;
66 }
67 body main .form form fieldset input[type=submit] {
68   padding: 0.6rem 0.8rem;
69   cursor: pointer;
70   border: none;
71   outline: none;
72   border-radius: 2px;
73   background-color: rgb(0, 0, 0.363);
74   color: rgb(0, 0, 0);
75   transition: 250ms;
76   font-weight: bold;
77 }
78 body main .form form fieldset input[type=submit]:hover {
79   color: white;
80   background-color: rgb(0, 0, 0.895);
81 }
82 body main .dashboard {
83   padding: 0.4rem 0.5rem;
84   flex: 3;
85   display: flex;
86   flex-wrap: wrap;
87   gap: 0.7rem;
88   overflow-y: scroll;
89 }
90 body main .dashboard::-webkit-scrollbar {
91   background: #000000;
92   width: 8px;
93 }
94 body main .dashboard::-webkit-scrollbar-thumb {
95   background: #000000;
96   border-radius: 999px;
97 }
98 body main .dashboard .card {
99   width: 11rem;
100  height: webkit-fit-content;
101  height: moz-fit-content;
102  height: fit-content;
103  display: flex;
104  flex-direction: column;
105  justify-content: center;
106  padding: 0.5rem;
107  background-color: white;
108  border-radius: 3px;
109 }
110 body main .dashboard .card .action {
111  width: 100%;
112  display: flex;
113  justify-content: flex-end;
114  gap: 0.5rem;
115 }
116 body main .dashboard .card .action button {
117  cursor: pointer;
118  border: none;
119  display: flex;
120  padding: 0.3rem 0.4rem;
121  border-radius: 3px;
122  background-color: rgb(0, 0, 0);
123  justify-content: center;
124  align-items: center;
125  color: white;
126 }
127 body main .dashboard .card .action button:svg {
128  transition: 250ms;
129  color: var(--svg-btn);
130 }
131 body main .dashboard .card .action button:svg {
132  --size: 1rem;
133  width: var(--size);
134  height: var(--size);
135 }
136 body main .dashboard .card .info {
137  display: flex;
138  flex-direction: column;
139  align-items: center;
140  gap: 0.7rem;
141 }
142 body main .dashboard .card .info img {
143  width: 90%;
144 }
145 body main .dashboard .card .info .hook_info {
146  width: 100%;
147 }
148 }/* sourceMappingURL=style.css.map */

```

[illegible]

Output:

Add new book

Name:

C PROGRAMING

Category:

CODING


Price:

1000 RIEL

Add

Delete

Edit




Name: C Programing

Price: 90000 riel

Category: Code

Delete

Edit




Name: C/C++

Price: 60000 riel

Category: Code

Delete

Edit



Name: Cambodia


Map

Price: 25000 riel

Category: Traveling

Delete

Edit



Name: wgssg

Price: 234 riel

Category: 83484

Ex5

Src:



```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Login Form with Cookie</title>
8  </head>
9  <body>
10     <div class="wrapper">
11         <p>Login Information</p>
12         <p>Email = gic@gmail.com</p>
13         <p>Password = Gic123</p>
14         <div class="wrapper">
15             
16             <div class="input">
17                 <label for="email">Email</label><br>
18                 <input id="email" type="text" placeholder="Enter email">
19             </div>
20             <div class="input">
21                 <label for="password">Password</label><br>
22                 <input id="password" type="text" placeholder="Enter password">
23             </div>
24             <div class="input">
25                 <button id="login" onclick="login();">Login</button>
26             </div>
27         </div>
28     </div>
29 </body>
30 </html>
```

```
1
2
3  *{
4      margin: 0px;
5      padding: 0px;
6  }
7  body{
8      background-color: #fafbfd;
9      display: flex;
10     justify-content: center;
11     margin-top: 20px;
12 }
13 div.wrapper *{
14     box-sizing: border-box;
15 }
16 .wrapper{
17     display: block;
18     width: 500px;
19     border: 1px solid gray;
20     padding: 20px;
21     text-align: center;
22 }
23 img{
24     width: 300px;
25 }
26 .input{
27
28     text-align: left;
29 }
30 .input input{
31     width: 100%;
32     height: 50px;
33     padding-left: 10px;
34     margin: 10px 10px 10px 0px;
35 }
36 .input button{
37     width: 100%;
38     height: 50px;
39     margin-top: 10px;
40     border: 0px solid black;
41     color: white;
42     background-color: green;
43 }
44 .content p{
45     margin-top: 10px;
46 }
47 .content button{
48     margin-left: 10px;
49     width: 90px;
50     height: 25px;
51     color: white;
52     background-color: gray;
53     border: 0px;
54     border-radius: 2px;
55     margin-top: 5px;
56 }
```



```

1  /*static user acc*/
2  var email = "gic@gmail.com";
3  var password = "Gic123";
4
5  /*function to get cookie value by name*/
6  function getCookie(cname) {
7      let name = cname + "=";
8      let decodedCookie = decodeURIComponent(document.cookie);
9      let ca = decodedCookie.split(';');
10     for(let i = 0; i <ca.length; i++) {
11         let c = ca[i];
12         while (c.charAt(0) == ' ') {
13             c = c.substring(1);
14         }
15         if (c.indexOf(name) == 0) {
16             return c.substring(name.length, c.length);
17         }
18     }
19     return "";
20 }
21
22 /*function login*/
23 function login(){
24     /*set cookie*/
25     var date = new Date();
26     date.setTime(date.getTime()+(30*1000));
27     document.cookie="email=gic@gmail.com;expires="+date.toUTCString();
28
29     /*check user acc*/
30     let email = document.getElementById('email').value;
31     let password = document.getElementById('password').value;
32
33     // console.log(email, password);
34     if(this.email === email && this.password === password && document.cookie === "email=gic@gmail.com") {
35         location.href="./login.html" ;
36     }
37 }
38
39 /*function logout button*/
40 function logout(){
41     location.href = "./Ex5.html";
42 }
43
44 /*function for reload home page when cookie is expired*/
45 function cookieExpired(){
46     var cookieValue = getCookie("email");
47     if(cookieValue != "gic@gmail.com"){
48         location.href = "./Ex5.html";
49     }
50 }

```

```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Login with Cookie</title>
8      <link rel="stylesheet" href="./Ex5.css">
9      <script src="./Ex5.js" defer></script>
10 </head>
11 <body onload="cookieExpired();">
12     <div class="content">
13         <h1>Welcome to Home Page</h1>
14         <p>You will be automatically logged out</p>
15         <p>Keep refreshing your page</p>
16         <button id="logout" onclick="logout();">Logout</button>
17     </div>
18 </body>
19 </html>

```

Output:

Login Information
Email = gic@gmail.com
Password = Gic123



Email

Password