



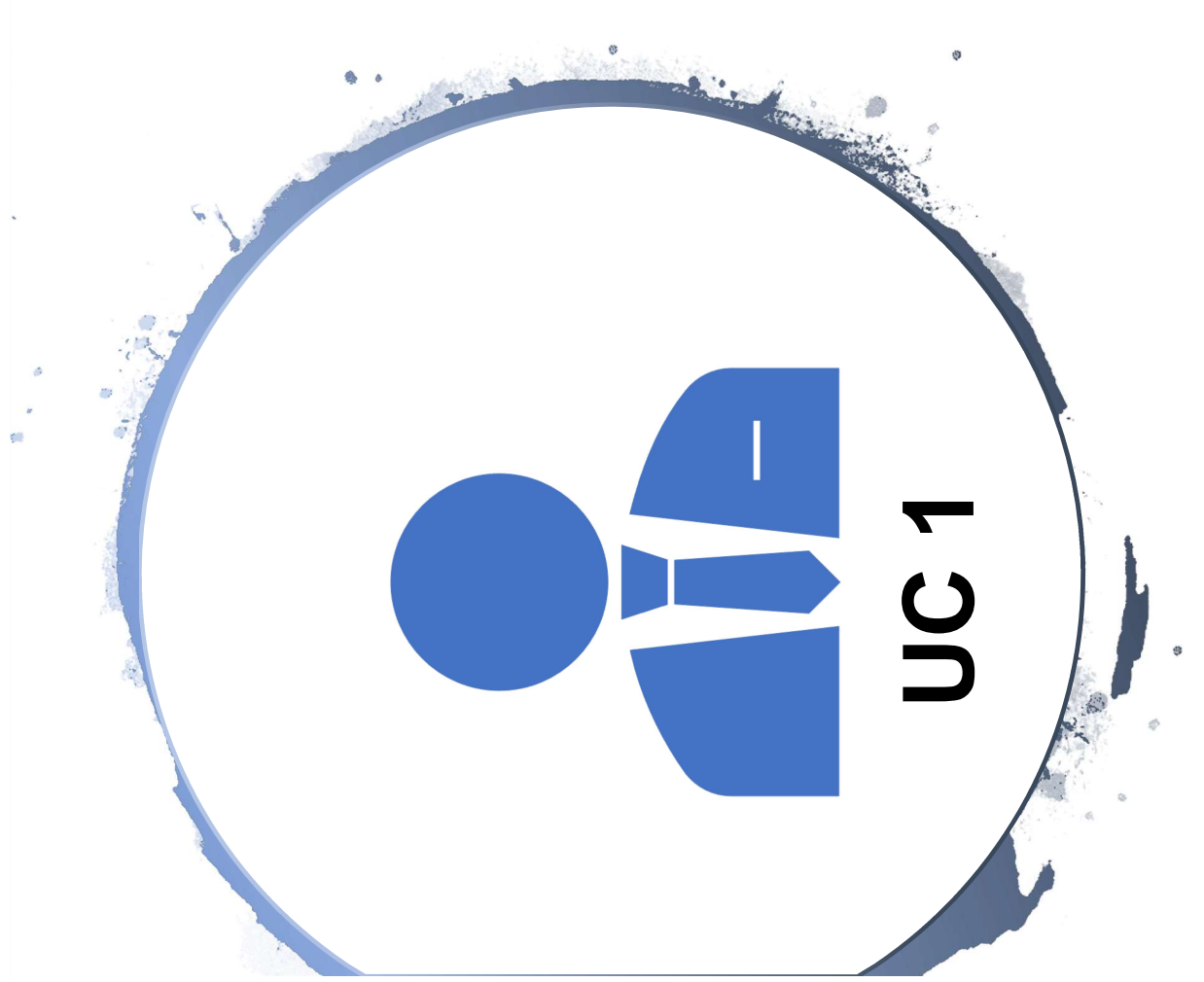
BridgeLabz

Employability Delivered

HTML, CSS &
Javascript



Add Employee Payroll



Modify Employee Payroll Class with new Attributes and Getters and Setters

- New Attributes added are Department, Gender, Employee Notes, Profile Pic, etc
- Note – Getters and Setters are used for all properties and Constructor is made default

```

js > JS EmployeePayroll.js > ...
1  class EmployeePayrollData {
2
3      // getter and setter method
4      get id() { return this._id; }
5      set id(id) {
6          this._id = id;
7      }
8
9      get name() { return this._name; }
10     set name(name) {
11         let nameRegex = RegExp('^[A-Z]{1}[a-zA-Z\\s]{2,}$')
12         if (nameRegex.test(name))
13             this._name = name;
14         else throw 'Name is Incorrect!';
15     }
16
17     get profilePic() { return this._profilePic; }
18     set profilePic(profilePic) {
19         this._profilePic = profilePic;
20     }
21
22     get gender() { return this._gender; }
23     set gender(gender) {
24         this._gender = gender;
25     }
26

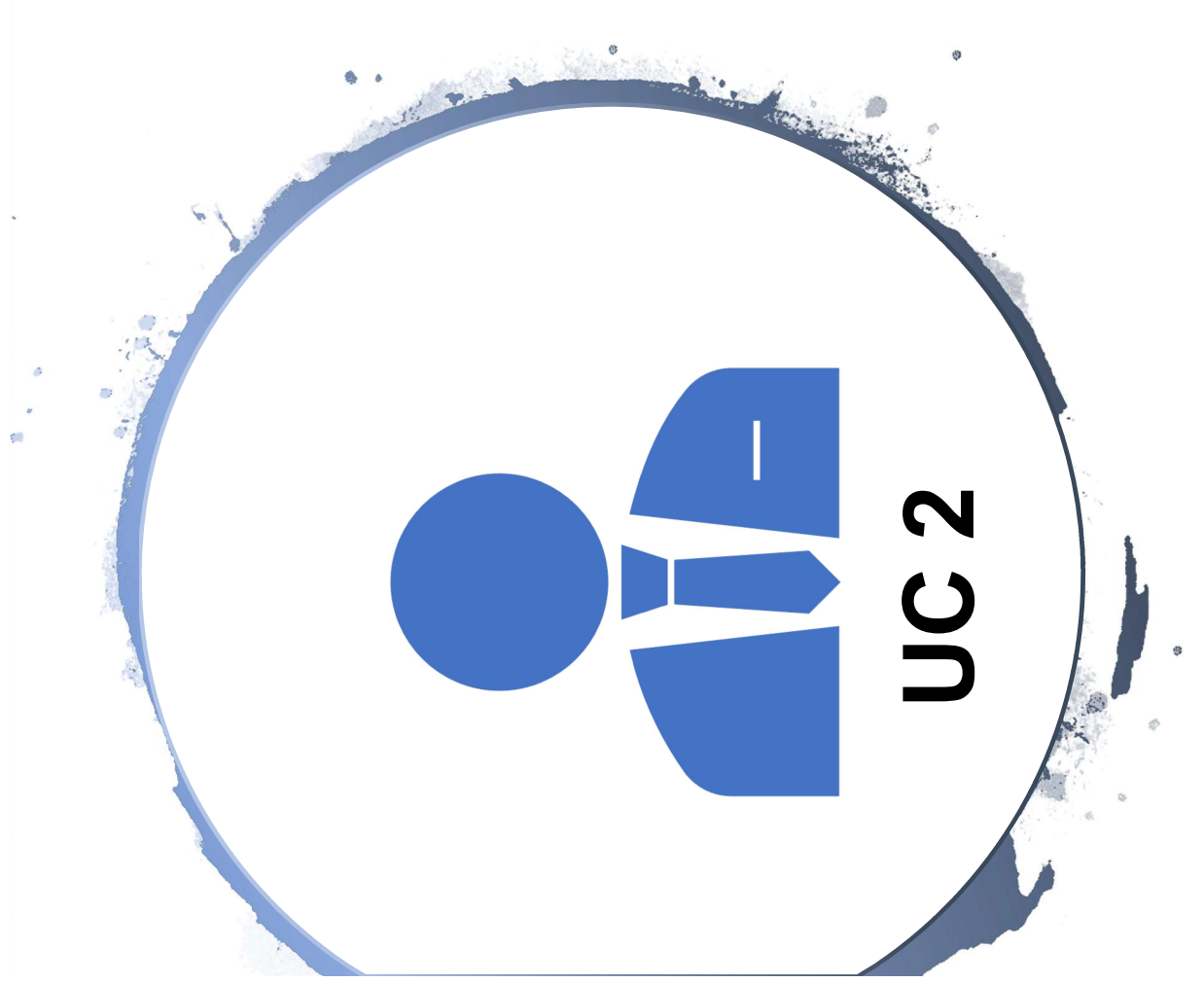
```

```

27     get department() { return this._department; }
28     set department(department) {
29         this._department = department;
30     }
31
32     get salary() { return this._salary; }
33     set salary(salary) {
34         this._salary = salary;
35     }
36
37     get note() { return this._note; }
38     set note(note) {
39         this._note = note;
40     }
41
42     get startDate() { return this._startDate; }
43     set startDate(startDate) {
44         this._startDate = startDate;
45     }
46
47     // method
48     toString() {
49         const options = { year: 'numeric', month: 'long', day: 'numeric' };
50         const empDate = !this.startDate ? "undefined" :
51             this.startDate.toLocaleDateString("en-US", options);
52         return "id=" + this.id + ", name=" + this.name + ", gender=" + this.gender +
53             ", profilePic=" + this.profilePic + ", department=" + this.department +
54             ", salary=" + this.salary + ", startDate=" + empDate + ", note=" + this
55
56     }

```

UC 1 – Employee Payroll Class with New Attributes



Ability to set Event Listeners when Document is loaded so as to

- Set Event Listener on Salary Range to display appropriate value
- Validation of Name and Date

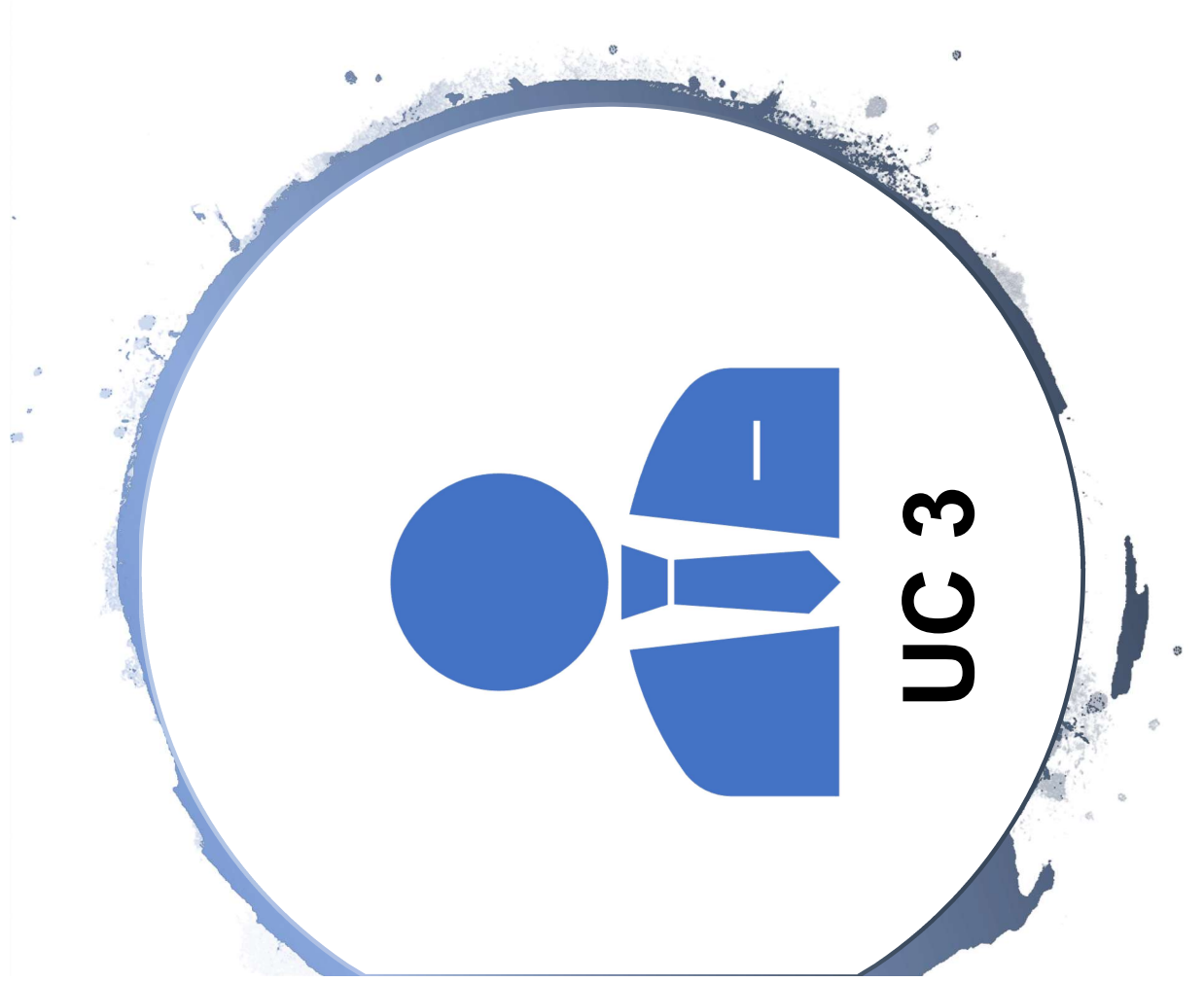
UC 2 – On Document Load Set Event Listeners

```
<div id="formId" class="form-content">
  <form class="form" action="#" onreset="resetForm()" onsubmit="save()">
    <!-- UC 2 -->
    <div class="form-head"> Employee Payroll form </div>
    <div class="row-content">
      <label class="label text" for="name">Name</label>
      <input class="input" type="text" id="name" name="name"
        | | | | placeholder="Your name.." required>
      <error-output class="text-error" for="text"></error-output>
    </div>
  </form>
</div>
```

```
error-output {
  margin-left: 10px;
  font-size: 12px;
  font-style: italic;
  color: red;
}
```

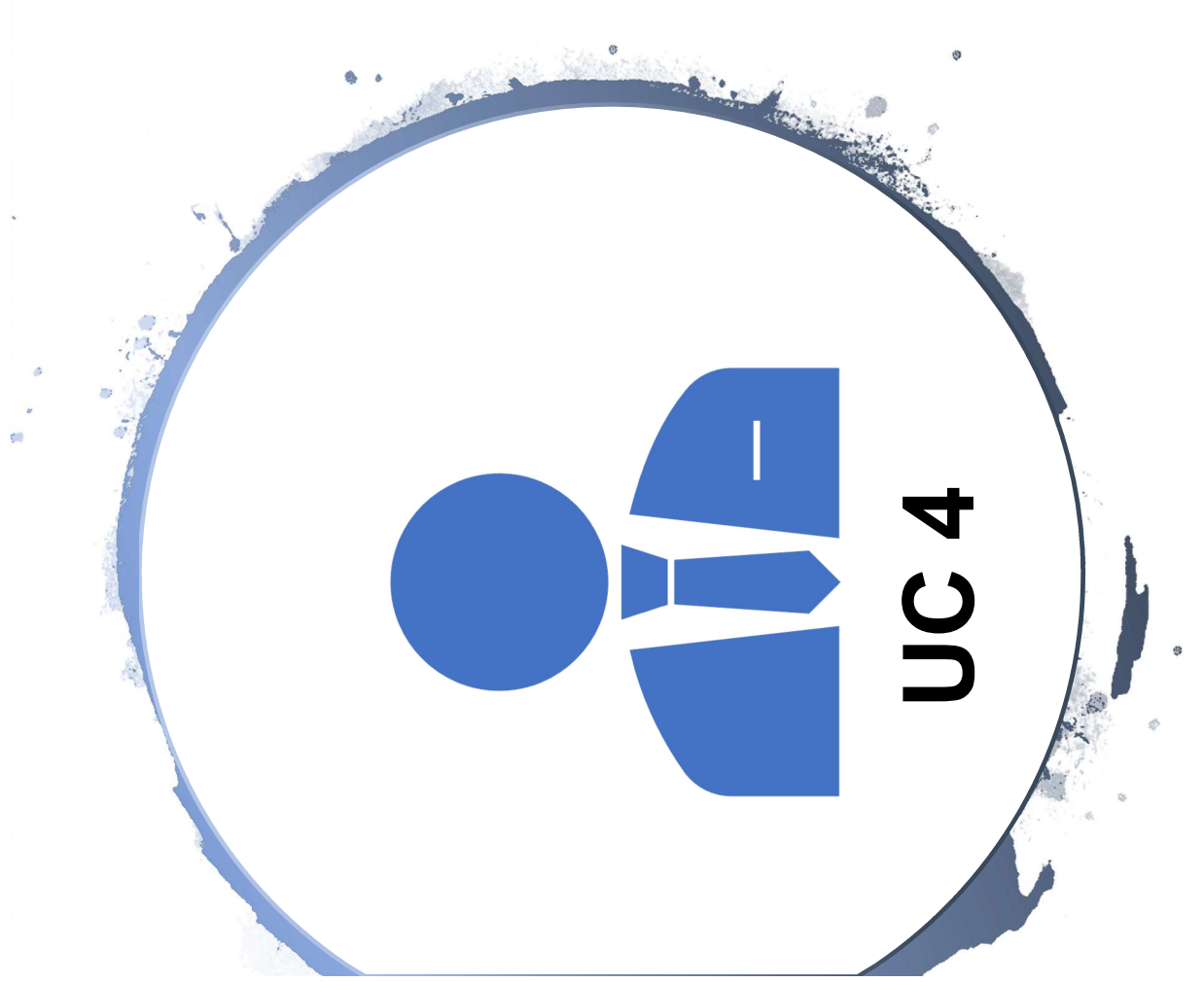
```
window.addEventListener('DOMContentLoaded', (event) => {
  const name = document.querySelector('#name');
  const textError = document.querySelector('.text-error')
  name.addEventListener('input', function() {
    if(name.value.length == 0) {
      textError.textContent = "";
      return;
    }
    try {
      (new EmployeePayrollData()).name = name.value;
      textError.textContent = "";
    } catch (e) {
      textError.textContent = e;
    }
  });

  const salary = document.querySelector('#salary');
  const output = document.querySelector('.salary-output')
  output.textContent = salary.value;
  salary.addEventListener('input', function() {
    output.textContent = salary.value;
  });
});
```



Ability to create Employee Payroll Object On Save.

- Validation of Name and Date and if failed then set the UI accordingly



Ability to save the Employee Payroll Object to Local Storage.

- Understand the difference between Local Storage, Session Storage and older feature of storing in cookies. Here are good references
- [HTML5 Storage](#)
- [Quick Guide Local Storage supported Methods](#)

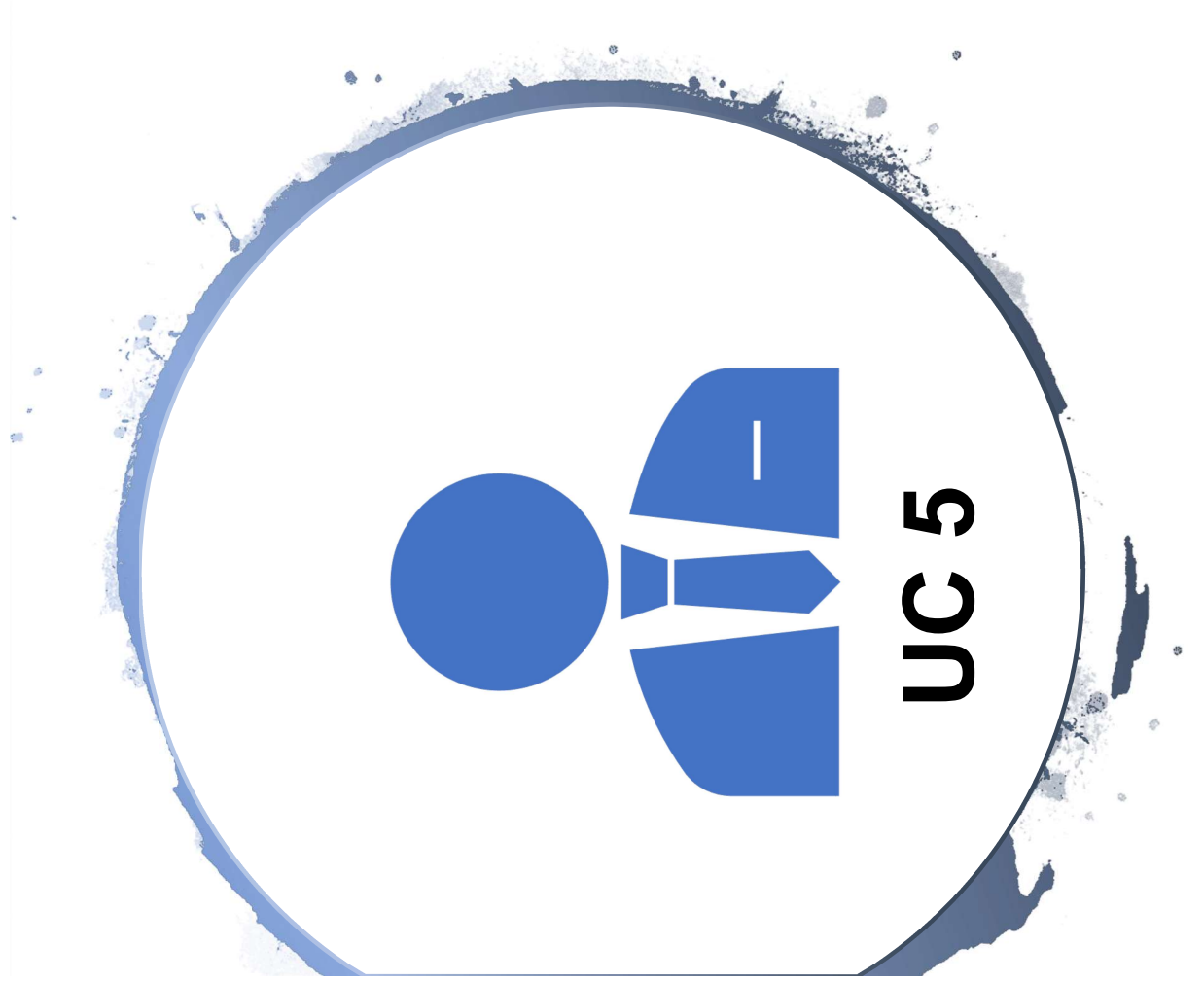
UC 4 – Saving Employee Payroll to Local Storage

```
const save = () => {  
  try {  
    let employeePayrollData = createEmployeePayroll();  
    createAndUpdateStorage(employeePayrollData);  
  } catch (e) {  
    return;  
  }  
}
```

```
function createAndUpdateStorage(employeePayrollData){  
  
  let employeePayrollList = JSON.parse(localStorage.getItem("EmployeePayrollList"));  
  
  if(employeePayrollList !== undefined){  
    employeePayrollList.push(employeePayrollData);  
  } else{  
    employeePayrollList = [employeePayrollData]  
  }  
  alert(employeePayrollList.toString());  
  localStorage.setItem("EmployeePayrollList", JSON.stringify(employeePayrollList))  
}
```

HTML5 Local Storage

- **Cookies** are small pieces of data which a **server can store in the browser**. The cookie is sent by the browser along with all future HTTP requests to the server that set the cookie. Cookies cannot be bigger than **4KB** in total.
- **HTML5 local storage** is set via JavaScript executed in the browser. HTML5 local storage properties are never sent to any server and can store data up to 5MB.
- The properties set in the HTML5 local storage can only be read by pages from the **same domain** as the page that set the properties, thus maintaining **storage security**.
- Local storage is available in the browser to all windows with the same origin (domain). Data stored in the local storage is also available after the **window has been closed**.
- **Session storage** is available inside the same browser window for as long as the window is open. When the browser window is closed, the session storage associated with that window is **deleted**.
 1. `setItem()` : Add key and value to `localStorage`
 2. `getItem()` : Retrieve a value by the key from `localStorage`
 3. `removeItem()` : Remove an item by key from `localStorage`
 4. `clear()` : Clear all `localStorage`
 5. `key()` : Passed a number to retrieve nth key of a `localStorage`



Ability to reset the form
on clicking reset

UC 5 – Reset the Employee Payroll Form

```
const resetForm = () => {
  setValue('#name', '');
  unsetSelectedValues('[name=profile]');
  unsetSelectedValues('[name=gender]');
  unsetSelectedValues('[name=department]');
  setValue('#salary', '');
  setValue('#notes', '');
  setValue('#day', '1');
  setValue('#month', 'January');
  setValue('#year', '2020');
}

const unsetSelectedValues = (propertyValue) => {
  let allItems = document.querySelectorAll(propertyValue);
  allItems.forEach(item => {
    item.checked = false;
  });
}

const setTextValue = (id, value) => {
  const element = document.querySelector(id);
  element.textContent = value;
}

const setValue = (id, value) => {
  const element = document.querySelector(id);
  element.value = value;
}
```

References

- [HTML Basics](#)
- [CSS Basics](#)
- [HTML / CSS in a nutshell](#)
- [HTML Element Ref](#)
- [Design webpage structure](#)
- [Flex Box](#)
- [A Guide to Flex Box](#)
- [Flex Layout Example](#)
- [Flex Live Demos](#)
- [Flex Try it out](#)
- [HTML-CSS-JS Try it out](#)
- [Open in Mobile HTML Form](#)
- [HTML Form Fields](#)
- [HTML 5 Input Fields](#)
- [Complete Guide to CSS Media Queries](#)
- [HTML5 Storage](#)
- [Quick Guide Local Storage supported Methods](#)



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**Thank
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