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Roll no - 22cs3033

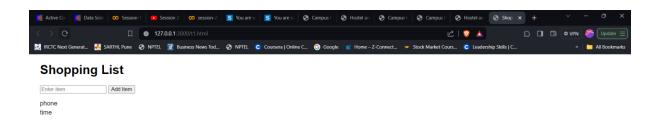
T1.

```
<!DOCTYPE html>
<html lang="en">
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Shopping List</title>
 <style>
   body {
     font-family: Arial, sans-serif;
   #shopping-list {
     margin: 20px;
   #items {
     list-style-type: none;
     padding: 0;
   #items li {
     margin-bottom: 5px;
 </style>
</head>
<body>
<div id="shopping-list">
 <h1>Shopping List</h1>
 <input type="text" id="item" placeholder="Enter item">
 <button id="addItemBtn">Add Item
 ul id="items">
</div>
<script>
 class Model {
   constructor() {
     this.items = JSON.parse(localStorage.getItem('shoppingList')) || [];
   addItem(item) {
     this.items.push(item);
     this.save();
```

```
}
  getItems() {
   return this.items;
 save() {
   localStorage.setItem('shoppingList', JSON.stringify(this.items));
class View {
 constructor() {
   this.itemsList = document.getElementById('items');
   this.itemInput = document.getElementById('item');
    this.addItemBtn = document.getElementById('addItemBtn');
  getNewItem() {
   return this.itemInput.value.trim();
  clearInput() {
   this.itemInput.value = '';
 renderItems(items) {
    this.itemsList.innerHTML = '';
   items.forEach(item => {
      const li = document.createElement('li');
     li.textContent = item;
     this.itemsList.appendChild(li);
    });
class Controller {
 constructor(model, view) {
    this.model = model;
   this.view = view;
   this.view.addItemBtn.addEventListener('click', () => this.addItem());
   this.initialRender();
  initialRender() {
   this.view.renderItems(this.model.getItems());
```

```
addItem() {
   const newItem = this.view.getNewItem();
   if (newItem !== '') {
      this.model.addItem(newItem);
      this.view.renderItems(this.model.getItems());
      this.view.clearInput();
   }
}

const model = new Model();
   const view = new View();
   const controller = new Controller(model, view);
</script>
</body>
</html>
```



T2.

```
<style>
   body {
     font-family: Arial, sans-serif;
   #shopping-list {
     margin: 20px;
   #items {
     list-style-type: none;
     padding: 0;
   #items li {
     margin-bottom: 5px;
 </style>
</head>
<body>
<div id="shopping-list">
 <h1>Shopping List</h1>
 <input type="text" id="item" placeholder="Enter item">
 <button id="addItemBtn">Add Item
 ul id="items">
 You have accessed this page <span id="pageAccessCount"></span> times.
</div>
<script>
 class Model {
   constructor() {
     this.items = JSON.parse(localStorage.getItem('shoppingList')) || [];
     this.accessCount = localStorage.getItem('accessCount') || 0;
   addItem(item) {
     this.items.push(item);
     this.save();
   getItems() {
     return this.items;
   save() {
     localStorage.setItem('shoppingList', JSON.stringify(this.items));
   incrementAccessCount() {
     this.accessCount++;
```

```
localStorage.setItem('accessCount', this.accessCount);
 getAccessCount() {
   return this.accessCount;
class View {
 constructor() {
   this.itemsList = document.getElementById('items');
   this.itemInput = document.getElementById('item');
   this.addItemBtn = document.getElementById('addItemBtn');
    this.pageAccessCount = document.getElementById('pageAccessCount');
  getNewItem() {
   return this.itemInput.value.trim();
  clearInput() {
   this.itemInput.value = '';
  renderItems(items) {
   this.itemsList.innerHTML = '';
   items.forEach(item => {
      const li = document.createElement('li');
     li.textContent = item;
     this.itemsList.appendChild(li);
   });
  renderAccessCount(count) {
    this.pageAccessCount.textContent = count;
class Controller {
  constructor(model, view) {
    this.model = model;
    this.view = view;
   this.view.addItemBtn.addEventListener('click', () => this.addItem());
    this.initialRender();
```

```
initialRender() {
    this.view.renderItems(this.model.getItems());
    this.view.renderAccessCount(this.model.getAccessCount());
    this.model.incrementAccessCount();
}

addItem() {
    const newItem = this.view.getNewItem();
    if (newItem !== '') {
        this.model.addItem(newItem);
        this.view.renderItems(this.model.getItems());
        this.view.clearInput();
    }
    }
}

const model = new Model();
    const view = new View();
    const controller = new Controller(model, view);
</script>
</body>
</html>
```



Shopping List

Enter item Add Item
phone
time
laptop
You have accessed this page 2 times.