

```
1  /**** Data ****/  
2  
3  const emails = [  
4    {  
5      id: 0,  
6      author: "Natalie",  
7      subject: "You're the best",  
8      unread: false,  
9    },  
10   {  
11     id: 1,  
12     author: "Natalie",  
13     subject: "Good job!",  
14     unread: true  
15   }  
16 ]  
17  
18 /**** CREATE UPDATE DELETE ****/  
19  
20 function createEmail(emailData) {  
21   emailData.id = emails[emails.length - 1].id + 1 // little trick  
22   emails.push(emailData);  
23   renderEmailList();  
24 }  
25  
26 function deleteEmail(idToDelete) {  
27   const index = emails.findIndex(email => email.id === idToDelete);  
28   emails.splice(index, 1);  
29   renderEmailList();  
30 }  
31  
32 function updateEmail(idToUpdate, updatedEmailData) {  
33   const index = emails.findIndex(email => email.id === idToUpdate);  
34   emails[index] = updatedEmailData;  
35   renderEmailList();  
36 }  
37  
38 function markAsRead(idToMarkAsRead) {  
39   emails.find(email => email.id === idToMarkAsRead).unread = false;  
40   renderEmailList();  
41 }  
42  
43 /**** Form ****/  
44  
45 const $subjectInput = $("#subject-input")  
46  
47 function onSubmitButtonClick() {  
48   const newEmailData = {  
49     author: "Natalie",  
50     subject: $subjectInput.val(),  
51     unread: true  
52   }  
53   createEmail(newEmailData);  
54   $subjectInput.val("");  
55 }  
56  
57 /**** READ ****/
```

```
58
59  const $emailContainer = $("#email-container");
60
61  $((() => {
62    renderEmailList();
63  }))
64
65  function renderEmailList() {
66    $emailContainer.empty();
67    const $emailListItems = emails.map(email => renderEmail(email))
68    $emailContainer.append($emailListItems);
69  }
70
71  function renderEmail(email) {
72    let liClass = "";
73    if(email.unread) {
74      liClass = "fw-bold"
75    }
76    return $("- 
").addClass("list-group-item " + liClass).text(email.subject).append(
77      $("").text("Mark as Read").addClass("btn btn-secondary")
78        .on("click", () => markAsRead(email.id))
79    )
80  }
```