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1  var xhr = new XMLHttpRequest();
2  var editIds=
   ['fullName','telephone','address1','address2','address3','city','postcode','cardNumber',
   'expiryDate','expiryYear','scn'];
3  var maxLength =[30,11,20,20,20,20,8,16,2,2,3];
4  var minLength =[1,11,1,1,1,1,5,16,2,2,3];
5
6  //function to check if an id of an input has been filled, if it is empty it will
   print a message in its result box
7  function presenceCheck(id){
8      var valid=false;
9      var input = document.getElementById(id);
10     //if the input is not empty return true and clear the result box for the input
11     if (input.value != ""){
12         valid = true;
13         printResult(id,"");
14     }else{
15         printResult(id,"please enter a value");
16         valid = false;
17     }
18
19     return valid;
20 }
21
22 //given an id and a message this function will print a message to the ids respective
   result box
23 function printResult(id, message){
24     //identify the corresponding result box which is just the id + Result
25     var inputResult = id + "Result";
26     document.getElementById(inputResult).innerHTML=message;
27 }
28
29 //returns the values of inputs in an array
30 function inputValues(ids){
31     var result= [];
32     //loop thorough the array of id adding the data to a result array to be returned
33     for(counter=0;counter<ids.length;counter++){
34         result[counter] = document.getElementById(ids[counter]).value
35     }
36     return result;
37 }
38
39 function inputLength(id,min,max){
40     var valid;
41     var data= document.getElementById(id).value;
42     var inputLength = data.length;
43     //if the input is between boundaries return true and clear message box
44     if (inputLength >= min && inputLength <= max){
45         valid = true;
46         printResult(id,"");
47     }else{
48         valid = false;
49         printResult(id,"this value is out the range");
50     }
51
52     return valid;
53 }
54
55 //session check function takes the file path of php file on server and the funciton
   that will deal wiht the response
56 function sessionCheck(filepath, responseFunction) {
57     //if the server is in an available state ready to do another request
58     if (xhr.readyState == 0 || xhr.readyState == 4) {
59         //run the server side script php for this function
60         xhr.open('GET', filepath, true);
61         xhr.onreadystatechange = function () {
62             if (xhr.readyState == 4) {
63                 //if the requets was successfull and returned a response
64                 if (xhr.status == 200) {
65                     //run function
66                     responseFunction();
67                 }
68             }
69         }
70     }
71 }

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69     }
70     xhr.send(null);
71 } else {
72     setTimeout(sessionCheck(filepath,responseFucntion), 1000);
73 }
74 }
75 }
76
77 //funtion used in testiong
78 function sessionCheckResponse(response){
79     //if the server has completed the request and has sent the repsonse
80     if (xhr.readyState==4){
81         //if the requets was successfull and returned a response
82         if(xhr.status==200){
83             //run function
84             console.log("check response")
85             response();
86         }
87     }
88 }
89 }
90
91 //this autofills the details that are already in the database for the user
92 function editDetailsForm(){
93     //recieves the raw response in XML
94     var root = xhr.responseXML.documentElement;
95     //accessing the specific tag required, in this case all result elements
96     elements = root.getElementsByTagName('result');
97     //loop through the inut boxes and autofill from the corresponding result element
98     var details = new Array(11);
99     for(var i=0; i<editIds.length;i++){
100         details[i] = elements.item(i).innerHTML;
101         console.log(details[i]);
102         defaultInput(details[i],i);
103     }
104 }
105
106 //fucntion to set the value of a textbox to a given value
107 function defaultInput (string,index){
108     //if integer values are empty (zero) they should not show zero
109     if(string == 0){
110         string="";
111     }
112     //get the element of the text box and print the value of that box
113     var input = document.getElementById(editIds[index]);
114     input.value = string;
115 }
116
117 //fucniton to validate each value on the form
118 function validate(){
119     var validForm = true;
120     for(var i=0; i<editIds.length; i++){
121         var itemValidation = false;
122         //first presenceCheck
123         itemValidation = presenceCheck(editIds[i]);
124         //console.log("the item " + editIds[i] + " has the value " + itemValidation);
125         //if the item is present the item is checked to be within the boundaries
126         if(itemValidation == true){
127             itemValidation = inputLength(editIds[i],minLength[i],maxLength[i]);
128         }
129         if (itemValidation == false){
130             validForm = false;
131         }
132     }
133     console.log(validForm);
134     return validForm;
135 }
136
137 function serverRequestSend(server,request,response){
138     if (xhr.readyState==0||xhr.readyState==4){
139         xhr.open('POST',server,true);
140         console.log(request);
141         xhr.onreadystatechange= response;

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142         xhr.send(request);
143     }else{
144         setTimeout(serverRequestSend(),1000);
145     }
146 }
147
148 function serverCallback(){
149     console.log(xhr.responseText);
150     var xmlDocumentElement = xhr.responseXML.documentElement;
151     var message = xmlDocumentElement.firstChild.data;
152     if(message == "complete"){
153         window.location.href = "profile.html";
154         console.log("redirecting to profile...")
155     }else{
156         alert("There was an error in the process, please try again");
157     }
158 }
159 }
160
161 //send the validated details to the server to update the database.
162 function updateDetails(){
163     var userDetails = inputValues(editIds);
164     var url = "http://localhost/supremeBot/updateUserDetails.php"
165     var str = '{' ;
166
167     for(var i=0; i<editIds.length;i++){
168         str = str + '"' + editIds[i] + ':' + userDetails[i] + ',';
169     }
170     //remove the & sign at the end of the request
171     var finalRequest = str.substring(0, str.length-1);
172     finalRequest = finalRequest + "}";
173     serverRequestSend(url,finalRequest,serverCallback);
174 }
175
176
177 window.onload = function(){
178     //as soon as the page elements load check the session and if successfull add the
179     //users details to the form
180     sessionCheck("http://localhost/supremeBot/editDetailSetup.php",editDetailsForm);
181     //add an event listener for the submit button to repeat the funtion
182     var submitBtn = document.getElementById('editDetailsBtn');
183     submitBtn.addEventListener("click",function(){
184         //validate until it is true at which point the details can be sent and the
185         //user can be redirected bac to the profile page
186         if(validate() == true){
187             updateDetails();
188         }
189     });
190 }

```