```
1     /*jshint esversion: 6*/
2
3     // functions to add or remove classes and show and hide validation errrors
4     // inspired by my project portfolio 2 Change Fuel
5     // https://github.com/JoGorska/Keto-diet/blob/master/assets/js/calculator.js
6     // and adjusted to the needs of the current project
7
8     /**
9      * Function to add class
10     * @param {*} className
11     * @param {*} targetNode
12     */
13     function addClass(className, targetNode) {
14        targetNode.classList.add(className);
15      }
16
17      /**
18       * Function to remove class
19       * @param {*} className
20       * @param {*} targetNode
21       */
22
23      function removeClass(className, targetNode){
24        targetNode.classList.remove(className);
25      }
26
27      /**
28       * Function to set attribute
29       * @param {*} className
30       * @param {*} targetNode
31       */
32
33      function setAttribute(attributeName, attributeValue, targetNode) {
34        targetNode.setAttribute(attributeName, attributeValue);
35      }
36
37      /**
38       * Function to display Error after validation has been failed
39       * makes div with help message visible and in red,
40       * input's border is red and red icon
41       * with exclamation mark is displayed in input field
42       * @param {*} targetNodeInput
43       * @param {*} targetNodeHelp
44       */
45      function displayErrorValidation(targetNodeInput, targetNodeHelp) {
46
47        addClass("is-invalid",targetNodeInput);
48        removeClass("is-valid",targetNodeInput);
49        setAttribute("aria-describedby", "name-help", targetNodeInput);
50        removeClass("my-invisible", targetNodeHelp);
51        addClass("invalid-feedback", targetNodeHelp);
52        removeClass("valid-feedback", targetNodeHelp);
53      }
54
55      /**
56       * Function to display Error after validation has been failed
57       * makes div with help message visible and in red, input's border is red
58       * and red icon with exclamation mark is displayed in input field
59       * @param {*} targetNodeInput
60       * @param {*} targetNodeHelp
61       */
62       function displayPassedValidation(targetNodeInput, targetNodeHelp) {
63        addClass("is-valid", targetNodeInput);
64        removeClass("is-invalid", targetNodeInput);
65        setAttribute("aria-describedby", "name-help", targetNodeInput);
66        removeClass("my-invisible", targetNodeHelp);
67        addClass("valid-feedback", targetNodeHelp);
68        removeClass("invalid-feedback", targetNodeHelp);
69      }
70
```

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```
71    const journeyForm = document.getElementsByTagName("FORM")[0];
72    const inputAddressStart = document.getElementById("id-google-address-a");
73    const inputAddressDestination =  document.getElementById("id-google-address-b");
74    const helpDivStart = document.getElementById("google-address-a-help");
75    const helpDivDestination = document.getElementById("google-address-b-help");
76    const inputLatitudeStart = document.getElementById("id-lat-a");
77    const inputLongitudeStart = document.getElementById("id-long-a");
78    const inputLatitudeDestination = document.getElementById("id-lat-b");
79    const inputLongitudeDestination = document.getElementById("id-long-b");
80
81    /**
82     * validates start
83     * function to validate if the user has input all data needed
84     * for the data model: address, latitude, longitude,
85     * detects if all or one of the fields is empty
86     * @returns true or false
87     */
88    function validateGeolocationFoundStart() {
89
90        if (inputAddressStart.value === "") {
91            helpDivStart.innerHTML = "This field is required";
92            displayErrorValidation(inputAddressStart, helpDivStart);
93            return(false);
94        } else if ((inputLatitudeStart.value === "") && (inputAddressStart.value !== "")) {
95            helpDivStart.innerHTML = "Please click into the drop down field to choose the corr
96            displayErrorValidation(inputAddressStart, helpDivStart);
97            return(false);
98        } else if ((inputLongitudeStart.value === "") && (inputAddressStart.value !== "")) {
99            helpDivStart.innerHTML = "Please click into the drop down field to choose the corr
100           displayErrorValidation(inputAddressStart, helpDivStart);
101           return(false);
102       } else {
103           return(true);
104       }
105   }
106
107   /**
108    * validates destination
109    * function to validate if the user has input all data needed
110    * for the data model:
111    * address, latitude, longitude, detects if all or one of the fields is empty
112    * @returns true or false
113    */
114   function validateGeolocationFoundDestination() {
115
116       if (inputAddressDestination.value === "") {
117           helpDivDestination.innerHTML = "This field is required";
118           displayErrorValidation(inputAddressDestination, helpDivDestination);
119           return(false);
120       } else if ((inputLatitudeDestination.value === "") && (inputAddressDestination.value !
121           helpDivDestination.innerHTML = ("Please click into the drop down field to choose t
122           displayErrorValidation(inputAddressDestination, helpDivDestination);
123           return(false);
124       } else if ((inputLongitudeDestination.value === "") && (inputAddressDestination.value
125           helpDivDestination.innerHTML = ("Please click into the drop down field to choose t
126           displayErrorValidation(inputAddressDestination, helpDivDestination);
127           return(false);
128       } else {
129           return(true);
130       }
131   }
132
133   // debounce and instant feedback on input copied from the below link
134   //https://www.javascripttutorial.net/javascript-dom/javascript-form-validation/
135
136   /**
137    * Function to delay response
138    */
139    const debounce = (fn, delay = 500) => {
140       let timeoutId;
141       return (...args) => {
142           // cancel the previous timer
```

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```
143         if (timeoutId) {
144             clearTimeout(timeoutId);
145         }
146         // setup a new timer
147         timeoutId = setTimeout(() => {
148             fn.apply(null, args);
149         }, delay);
150     };
151   };
152
153 /**
154 * Gives instant feedback on input with the delay set above
155 */
156 journeyForm.addEventListener ("input", debounce(function (e) {
157     switch (e.target.id) {
158         case "id-google-address-a":
159             validateGeolocationFoundStart();
160             break;
161
162         case "id-google-address-b":
163             validateGeolocationFoundDestination();
164             break;
165
166     }
167 }));
168
169 // functions created based on developers.google documentation
170 // https://developers.google.com/maps/documentation/places/web-service/supported_types
171 // and following tutorial Bobby did coding
172 // https://www.youtube.com/watch?v=wCn8WND-JpU&t=8s
173 // and refactored to the needs of the project
174
175 $.getScript( "https://maps.googleapis.com/maps/api/js?key=" + google_api_key + "&libraries
176 .done(function( script, textStatus ) {
177     google.maps.event.addDomListener(window, "load", initAutocomplete());
178 });
179
180
181 let autocomplete_a;
182 let autocomplete_b;
183 /**
184  * function that initializes autocomplete from google maps places API
185  * user can search by postcode or full address
186  * once API has been fetched successfully the div displays to the user that
187  * the field passed validation successfully
188  */
189 function initAutocomplete() {
190
191   autocomplete_a = new google.maps.places.Autocomplete(
192    document.getElementById("id-google-address-a"),
193    {
194        regions: ["postal_code"],
195        componentRestrictions: {"country": ["uk"]}
196    });
197
198   autocomplete_a.addListener("place_changed", function(){
199     onPlaceChanged("a");
200     helpDivStart.innerHTML = "We have found geocoordinates";
201     displayPassedValidation(inputAddressStart, helpDivStart);
202   });
203
204
205   autocomplete_b = new google.maps.places.Autocomplete(
206    document.getElementById("id-google-address-b"),
207    {
208         regions: ["postal_code"],
209        componentRestrictions: {"country": ["uk"]}
210    });
211
212   autocomplete_b.addListener("place_changed", function(){
213     onPlaceChanged("b");
214     helpDivDestination.innerHTML = "We have found geocoordinates";
```

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```
215     displayPassedValidation(inputAddressDestination, helpDivDestination);
216   });
217
218 }
219
220 /**
221  * function that listens for input / place changed in the start and destination fields and
222  * autocompletes the address and latutude and longditude fields
223  */
224 function onPlaceChanged (addy){
225
226     let auto;
227     let el_id;
228     let lat_id;
229     let long_id;
230
231     if ( addy === "a"){
232         auto = autocomplete_a;
233         el_id = "id-google-address-a";
234         lat_id = "id-lat-a";
235         long_id = "id-long-a";
236     }
237     else{
238         auto = autocomplete_b;
239         el_id = "id-google-address-b";
240         lat_id = "id-lat-b";
241         long_id = "id-long-b";
242     }
243
244     var geocoder = new google.maps.Geocoder();
245     var address_start = document.getElementById("id-google-address-a").value;
246     var address_destination = document.getElementById("id-google-address-b").value;
247     var address_list = [address_start, address_destination];
248
249     for (var address in address_list) {
250         address = document.getElementById(el_id).value;
251
252
253         geocoder.geocode( { "address": address}, function(results, status) {
254
255             if (status == google.maps.GeocoderStatus.OK) {
256                 var latitude = results[0].geometry.location.lat();
257                 var longitude = results[0].geometry.location.lng();
258
259                 $("#" + lat_id).val(latitude);
260                 $("#" + long_id).val(longitude);
261
262
263             } else {
264
265                 alert("Directions request failed due to " + status);
266                 window.location.assign("/visits/");
267
268             }
269
270         });
271     }
272 }
273
```

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