```
Array with image source links to be retrieved and inserted into the HTML when
       const cardDeck = \Gamma
           "castle.jpg",
           "cat.jpg",
           "dragon.jpg",
8
9
           "frog.jpg",
           "qingerbread.jpg",
10
           "owl.jpg",
11
12
           "rabbit.jpg"
13
           "rainbow.jpa",
      ];
14
15
16
       const gameId = 'board-game';
      const delayBeforeRemovingCards = 100;
17
18
       const maxTopScores = 10;
      const gameTime = 120; // Total time in seconds that the player has to match all of
19
20
21
       class BoardGame {
22
           constructor(totalTime) {
23
               this.fullDeck = [];
24
               this.totalTurns = 0;
25
               this.totalTime = totalTime;
26
               this.timeLeft = totalTime;
               this.turns = document.getÉlementById("turns");
this.timer = document.getElementById("time-left");
27
28
29
               this.configuration = null;
               this.playerPanel = document.getElementById("playerPanel");
30
31
               this.boardPanel = document.getElementById("main-gameboard");
               this.checkCard = null; // Sets the card as the card to be matched
32
33
               this.addListeners();
34
           }
35
36
37
              * Starts the BoardGame application - it is called when an instance of the c
38
39
40
           start() {
41
               this.loadConfiguration();
42
               this.showPlayerPanel();
43
44
45
           addListeners() {
               let playerForm = document.getElementById("playerForm");
46
               playerForm.addEventListener("submit", this.onStartGameHandler.bind(this));
47
```

There are 41 functions in this file.

version 2 11 1

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```
48
49
50
51
             * Loads the game configuration from localStorage. If the configuration does
52
53
54
          loadConfiguration() {
55
              this.configuration = JSON.parse(localStorage.getItem(gameId));
              if (!this.configuration) { // Sets configuration to the default value
56
57
                   this.configuration = {
                       playerName: "",
58
59
                       scores: □,
60
                  };
61
62
          }
63
64
65
              * Sets the game cards, timer, turn counter and card actions for the game sci
66
67
68
          startGame() {
69
              this.checkCard = null;
70
              this.totalTurns = 0:
71
              this.timeLeft = this.totalTime;
72
              this.matchedCards = [7]: // Array which will store the matched cards as the
73
              this.busy = true;
74
              setTimeout(() => {
75
                   this.shuffleDeck(this.fullDeck);
76
                   this.countDown = this.startCountDown();
77
                   this.busy = false;
78
              }, 500);
79
              this.hideCards();
              this.timer.innerText = this.timeLeft;
80
81
              this.turns.innerText = this.totalTurns;
82
              this.showBoardPanel();
83
              this.appendCards();
84
              this.subscribeButton();
85
86
87
             * Loads the player name and score from localStorage
88
89
90
91
          showPlayerPanel() {
92
              document.getElementById("playerName").value = this.configuration.playerName"
              this.renderScores();
93
94
              this.boardPanel.classList.toggle("d-none", true);
95
              this.playerPanel.classList.toggle("d-none", false);
96
```

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```
97
98
         showBoardPanel() {
99
            this.playerPanel.classList.toggle("d-none", true);
100
            this.boardPanel.classList.toggle("d-none", false);
101
102
103
104
          * Renders the score table and appends a table to the scores container.
105
          * If the table already exists, it is removed and created from scratch
106
107
108
         renderScores() {
            let scoresContainer = document.getElementById("scores");
109
110
            if (scoresContainer.firstElementChild) {
111
                scoresContainer.firstElementChild.remove();
112
113
            let table = document.createElement("table");
            let header = table.createTHead();
114
115
            let headers = header.insertRow(0);
116
            headers.innerHTML = `Position
                              Player Name
117
118
                              Total Turns
119
                              Total Time`;
120
            let tblBody = document.createElement('tbody');
            this.configuration.scores.forEach((score, index) => {
121
122
                let tr = document.createElement("tr");
                123
124
                              ${score.playerName}
125
                              ${score.flips}
                              ${score.totalTime}`;
126
               if (score.currentPlayer) {
127
                   tr.classList.add('last-game');
128
129
130
                tblBody.appendChild(tr);
131
132
            table.appendChild(tblBody);
133
            scoresContainer.appendChild(table);
134
         }
135
136
           Event handler to handle the onsubmit event fired from the playerForm 'Start
137
138
          * @param {*} event DOM Event
139
140
141
         onStartGameHandler(event) {
            event.stopImmediatePropagation();
142
143
            event.preventDefault();
            // Assigns the current player's name to the configuration object to start
144
145
            this.configuration.playerName = event.target[0].value;
```

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```
146
              //Starts the game
147
              this.startGame();
148
149
150
          popSound() {
151
              let audio = new Audio("assets/audio/pop.mp3"):
152
              audio.play();
153
154
          /**
155
             Renders the card element using the image name passed as a parameter
156
           * @param {String} imageName
157
158
159
          renderCard(imageName) {
160
              return `<div class="card">
161
                           <div class="card-back all-cards">
162
                               <img class="card-img" src="assets/images/card-back.jpg" a</pre>
163
                           </div>
164
                           <div class="card-picture all-cards">
165
                               <img class="card-value card-img" src="assets/images/${images/$}</pre>
166
                           </div>
167
                       </div>`;
168
          }
169
170
171
           * Appends the cards to the gameboard
172
173
174
          appendCards() {
175
              // Creates a new array by adding the cardDeck array to itself so there is (
176
               const allCards = cardDeck.concat(cardDeck);
177
178
              const addCard = document.getElementById("main-gameboard");
179
               // insertAdjacentHTML inserts the HTML from the renderCard function for each
              allCards.forEach((imageName) => addCard.insertAdjacentHTML("beforeend", th
180
181
182
183
              let cards = Array.from(document.getElementsByClassName("card"));
184
185
              cards.forEach((card) => {
                  card.addEventListener("click", () => {
186
187
                       this.turnCard(card);
188
                       this.popSound();
189
                  });
190
191
               this.fullDeck = cards; // Declares a new array of HTML cards for the game
192
193
194
          removeCards() {
```

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```
195
              let cards = Array.from(document.getElementsByClassName("card"));
196
              cards.forEach((card) => card.remove()):
197
198
199
200
          subscribeButton() {
              document.getElementById("subscribe-submit").addEventListener("click", func-
201
                   document.aetElementBvId('email-subscribe').remove():
202
203
                   document.getElementById('email-text').innerText ="Thank you. You are no
204
              });
205
          }
206
207
          startCountDown() {
208
              return setInterval(() => {
209
                   this.timeLeft--;
210
                   this.timer.innerText = this.timeLeft;
211
                  if (this.timeLeft === 0)
                       this.gameOver(); // Ends game when countdown reaches 0
212
213
              }, 1000);
214
          }
215
216
          gameFinished() {
217
              clearInterval(this.countDown);
              // Removes remaining cards from the board
218
219
              this.removeCards();
220
              this.showPlayerPanel();
221
          }
222
223
          currentScore() {
224
              let currentScore = document.getElementById('current-score');
225
              currentScore.innerText = this.totalTurns;
226
          }
227
228
          gameOver() {
              this.renderScores();
229
230
              this.boardPanel.classList.toggle("d-none", true);
231
              this.playerPanel.classList.toggle("d-none", false);
232
              this.gameFinished();
233
          }
234
235
          qameWin() {
236
              this.currentScore();
237
              this.updateScores();
238
              this.gameFinished();
239
240
241
             * Updates the scores based on the last played game after game has been won
242
```

243

#### Metrics

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```
244
          updateScores() {
245
              // Disable the previous current played game
              let index = this.configuration.scores.findIndex((score) => score.currentPlo
246
247
              if (index !== -1) {
248
                   this.configuration.scores[index].currentPlayer = false;
249
250
251
              // Adds the new score to the scoreboard
252
              this.configuration.scores.push({
253
                   playerName: this.configuration.playerName,
254
                  flips: this.totalTurns,
255
                   totalTime: this.totalTime - this.timeLeft.
256
                   currentPlayer: true
257
              });
258
259
260
                  * Sorts the scores by comparing values to include the new score - the sc
261
262
              this.configuration.scores.sort((a, b) => {
263
264
                  if (a.flips < b.flips) {
265
                       return -1;
266
                   if (a.flips > b.flips) {
267
268
                       return 1;
269
270
                   if (a.totalTime < b.totalTime) {</pre>
271
                       return -1;
272
273
                  if (a.totalTime > b.totalTime) {
274
                       return 1;
275
276
                  return 0;
277
              });
278
279
              // Pop removes the last player from the list of top players if there is an
280
              if (this.configuration.scores.length > maxTopScores) {
281
                   this.configuration.scores.pop();
282
283
284
              // Converts the configuration into a string and updates it in localStorage
              localStorage.setItem(gameId, JSON.stringify(this.configuration));
285
286
          }
287
288
          hideCards() {
289
              this.fullDeck.forEach((card) => {
290
                  card.classList.remove('visible');
291
              });
292
```

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```
293
294
295
296
              * @param {Element} card The card element
297
298
299
          turnCard(card) {
300
              if (this.isCardFacedDown(card)) {
301
                  // Increases the number of turns
302
                  this.totalTurns++;
303
                  // Increases the number of turns on screen
304
                  this.turns.innerText = this.totalTurns:
305
                  // Shows the card
306
                  card.classList.add('visible');
                  if (this.checkCard) {
307
                       this.checkForMatch(card);
308
309
                  } else {
                       this.checkCard = card;
310
311
312
313
          }
314
315
           * Checks if the card is a match with the previously selected card
316
           * @param {Element} card
317
318
319
320
          checkForMatch(card) {
321
              if (this.checkCardType(card) === this.checkCardType(this.checkCard)) {
                  this.cardMatcher(card, this.checkCard);
322
323
              } else {
                  this.notAMatch(card, this.checkCard);
324
                  // Clears the card selection
325
326
                  this.checkCard = null;
327
328
          }
329
330
331
332
              * @param {*} card1 First card selected
              * @param {*} card2 Second card selected
333
334
335
336
          cardMatcher(card1, card2) {
              // Adds the cards to the matchedCards array to track progress
337
338
              this.matchedCards.push(card1);
339
              this.matchedCards.push(card2);
              setTimeout(() => {
340
341
                  card1.classList.add("invisible");
```

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```
342
                  card2.classList.add("invisible");
343
              }, delayBeforeRemovingCards);
344
              this.checkCard = null:
345
              // Ends the game when all cards have been matched
              if (this.matchedCards.lenath === this.fullDeck.lenath) {
346
347
                  this.aameWin():
348
          }
349
350
351
          notAMatch(card1, card2) {
352
              this.busy = true;
353
              setTimeout(() => {
354
                  card1.classList.remove("visible");
355
                  card2.classList.remove("visible");
356
                  this.busy = false;
357
              }, 500);
          }
358
359
360
          checkCardType(card) {
361
              return card.getElementsByClassName("card-value")[0].src;
362
363
364
365
             * Fisher-Yates algorithm shuffles through the card array swapping
366
             * the last element with a random element from the array
367
368
369
          shuffleDeck() {
370
              for (let i = this.fullDeck.length - 1; i > 0; i--) {
                  let randomIndex = Math.floor(Math.random() * (i + 1));
371
                  this.fullDeck[randomIndex].style.order = i;
372
373
                  this.fullDeck[1].style.order = randomIndex:
374
375
          }
376
          isCardFacedDown(card) {
377
378
              return (
379
                  !this.busy && !this.matchedCards.includes(card) && card !== this.check(
380
              );
381
382
      }
383
384
      const game = new BoardGame(gameTime);
      qame.start();
385
386
387
```

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