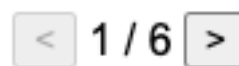


HTML CODE

```
<body>
  <section>
    <div id="controls"> <!-- Pager controls -->
      <button id="back"> < </button> <!-- Previous page button -->
      <span id="page-info"></span> <!-- Info on current page -->
      <button id="next"> > </button> <!-- Next page button -->
    </div>
    <div id="movie-list"></div> <!-- Movies per page -->
  </section>
  <template id="movie-template"> <!-- Movie template -->
    <div id="movie">
      <h2 id="title"></h2>
      <h3 id="year"></h3>
      <p id="director"></p>
      <ul id="genre"></ul>
    </div>
  </template>
</body>
```



Movie Title

XXXX

Director

Genre1, Genre2,...

ARRAY OF OBJECTS (JSON)

```
const data = [
  {
    id: 3,
    title: "The Dark Knight",
    year: 2008,
    director: "Christopher Nolan",
    genre: "Action, Crime, Drama"
  },
  {...}
]
```

PROBLEM BREAKDOWN

- Knowing how many pages there are → calculation = $\text{roundUp}(\text{numMovies} / \text{moviesPerPage})$
- Knowing how many movies there are in total (numMovies = length of the movie array)
- Knowing how many movies will be per page (constant moviesPerPage)
- Knowing which page we are on (currentPage = variable that we will initialize to 1)
- Knowing which movies we need to display → subset of the movie array
 - Start of the subset = $(\text{currentPage} - 1) * \text{moviesPerPage}$
 - End of the subset = start + moviesPerPage
 - Get a subarray from start to end
- Function to draw the subset of movies
 - Write the current page number
 - Set an area containing all the movies
 - Clear the area to make room for the new subset

- Draw the current subset of movies with a loop
 - Create a clone of the template
 - Fill in each label with the content of each movie
 - For the genre, convert it to an array and iterate through it to create a list
 - Add the movie to the movie area
 - Move on to the next movie
- Add functionality to the buttons
 - When a button is pressed, increase or decrease the page number
 - Call the drawing function
- Disable the buttons at the ends
 - If we are on the first page, disable the back button
 - If we are on the last page, disable the forward button
- By default, the page...
 - Set the current page to 1
 - Paint that page, as well as the buttons

```
// --
// Variables
// --
const movieListDOM = document.querySelector("#movie-list");
const backButtonDOM = document.querySelector("#back");
const pageInfoDOM = document.querySelector("#page-info");
const nextButtonDOM = document.querySelector("#next");
const movieTemplate = document.querySelector("#movie-template").content;
const elementsPerPage = 5;
let currentPage = 1;
const data = [
  {
    id: 3,
    title: "The Dark Knight",
    year: 2008,
    director: "Christopher Nolan",
    genre: "Action, Crime, Drama"
  },
  {
    ...
  },
];
// --
// Functions
// --

/**
 * Function to load next page
 * @return void
 */
function nextPage() {
  // Increase "currentPage"
  currentPage = currentPage + 1;
  // Redraw
  render();
}

/**
```

```

* Function to load previous page
* @return void
*/
function backpage() {
    // Decrease "currentPage"
    currentPage = currentPage - 1;
    // Redraw
    render();
}

/**
* Function to return data from the wanted page
* @param {Int} page – page number
* @return {Array<JSON>}
*/
function getDataSlice(page) {
    const startSlice = (page - 1) * elementsPerPage;
    const endSlice = startSlice + elementsPerPage;
    return data.slice(startSlice, endSlice);
}

/**
* Function to return total number of available pages
* @return {Int}
*/
function getTotalPages() {
    return Math.ceil(data.length / elementsPerPage);
}

/**
* Function to manage the paging buttons. When first or last pages are
* active, buttons are disabled. Otherwise, they're enabled.
* @return void
*/
function manageButtons() {
    // Check if back button is active or not
    if (currentPage === 1) {
        backButtonDOM.setAttribute("disabled", true);
    } else {
        backButtonDOM.removeAttribute("disabled");
    }
    // Check if next button is active or not
    if (currentPage === getTotalPages()) {
        nextButtonDOM.setAttribute("disabled", true);
    } else {
        nextButtonDOM.removeAttribute("disabled");
    }
}

/**
* Function to draw the new DOM from the variables
* @return void
*/

```

```

function render() {
  // Clean previous DOM movies
  movieListDOM.innerHTML = "";
  // Get paged movies
  const dataSlice = getDataSlice(currentPage);
  //// Draw
  // Disable appropriate buttons (previous or next page)
  manageButtons();
  // Report current page and available pages
  pageInfoDOM.innerHTML = `&nbsp;${currentPage} / ${getTotalPages()}&nbsp;`;
  // Create an article for each element in the current page
  dataSlice.forEach(function (movieData) {
    // Clone the movie template
    const myMovie = movieTemplate.cloneNode(true);
    // Fill data of new movie
    const myTitle = myMovie.querySelector("#title");
    myTitle.textContent = movieData.title;
    const myYear = myMovie.querySelector("#year");
    myYear.textContent = movieData.year;
    const myDirector = myMovie.querySelector("#director");
    myDirector.textContent = "Directed by " + movieData.director;
    const myGenre = myMovie.querySelector("#genre");
    const genreArray = movieData.genre.split(', ');
    for (let g of genreArray) {
      let newItem = document.createElement("li");
      newItem.textContent = g;
      myGenre.appendChild(newItem);
    }
    // Append it in "movieListDOM"
    movieListDOM.appendChild(myMovie);
  });
}

// --
// Events
// --
backButtonDOM.addEventListener("click", backPage);
nextButtonDOM.addEventListener("click", nextPage);

// --
// Start
// --
render(); // Display the first page as soon as the page is loaded

```