JS Advanced Final Exam

Problem 1. Music Site

Environment Specifics

Please, be aware that every JS environment may **behave differently** when executing code. Certain things that work in the browser are not supported in **Node.js**, which is the environment used by **Judge**.

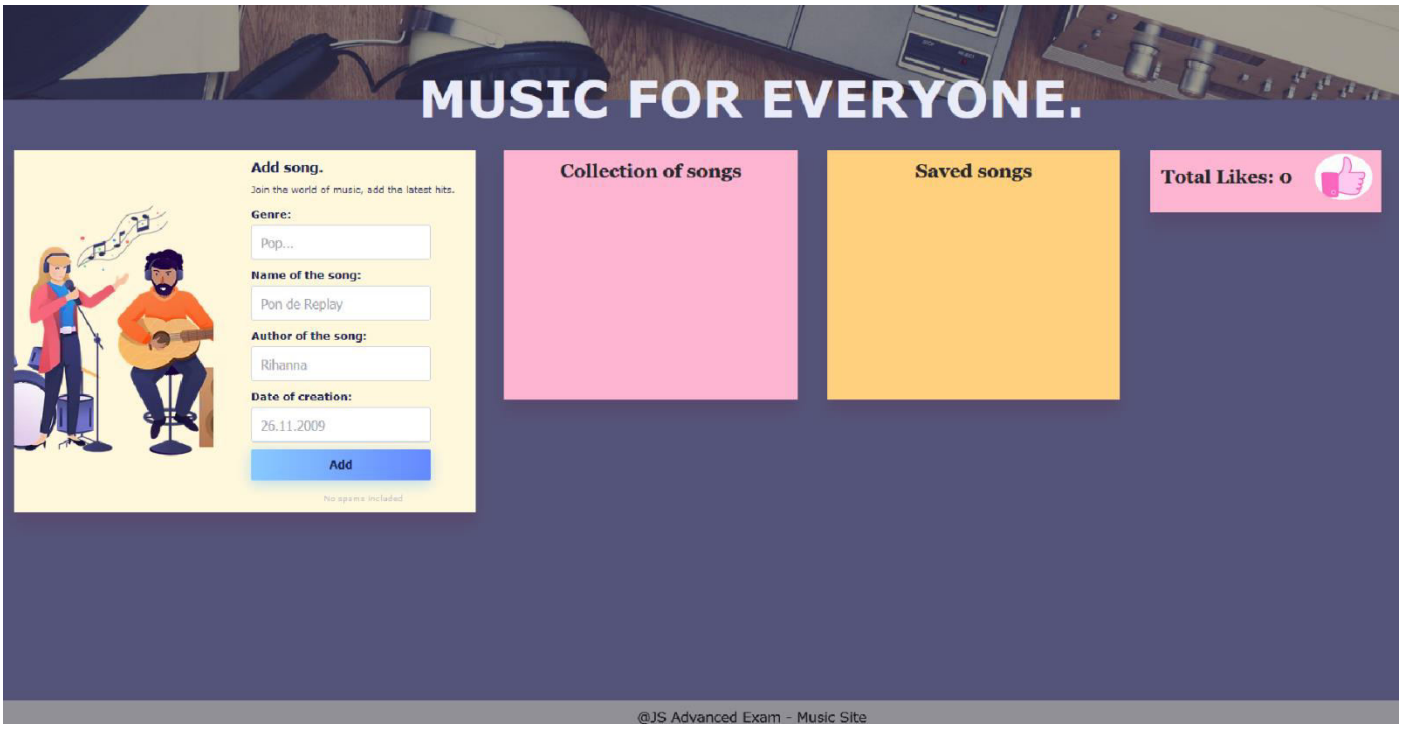
The following actions are **NOT** supported:

- `.forEach()` with **NodeList** (returned by `querySelector()` and `querySelectorAll()`)
- `.forEach()` with **HTMLCollection** (returned by `getElementsByClassName()` and `element.children`)
- Using the **spread-operator** (`...`) to convert a **NodeList** into an array
- `append()` in Judge (use only `appendChild()`)
- `replaceWith()` in Judge
- `replaceAll()` in Judge
- `closest()` in Judge
- `prepend()`
- `replaceChildren()`
- Always turn the collection into a **JS array** (forEach, forOf, et.)

If you want to perform these operations, you may use `Array.from()` to first convert the collection into an array.

Use the provided skeleton to solve this problem.

Note: You **can't** and you have no permission to **change** directly the given HTML code (index.html file).



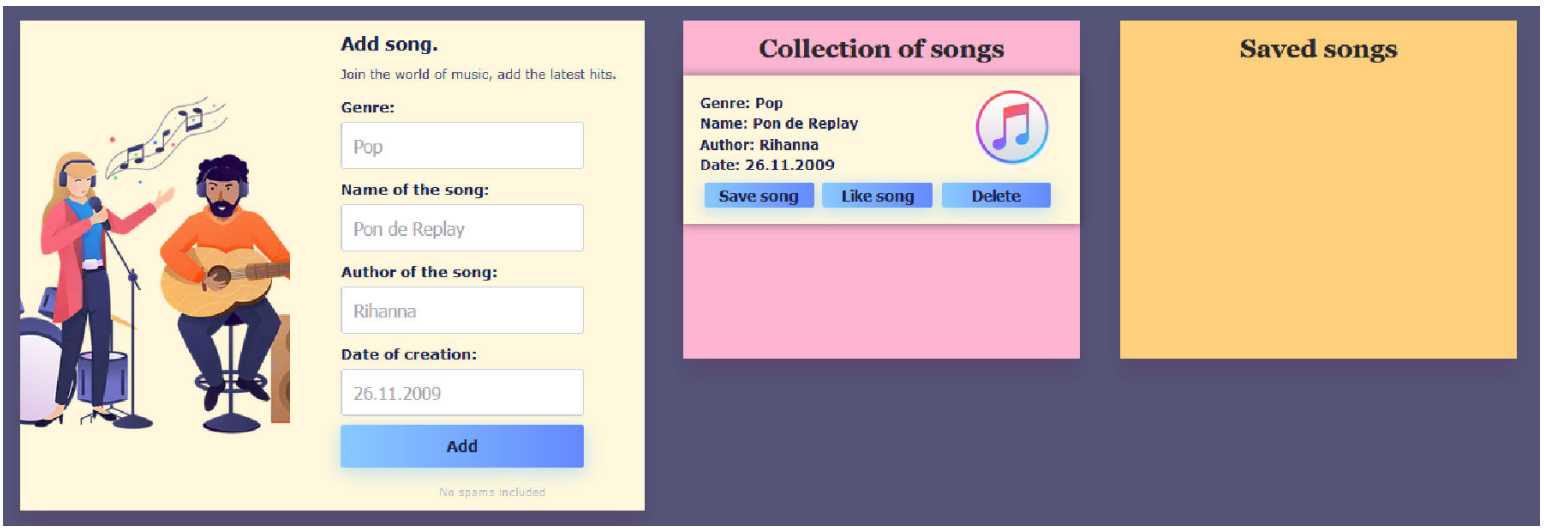
Your Task

Write the missing JavaScript code to make the **Music Site** work as expected:

- All **fields (genre, name, author, and date)** are **filled with the correct input**

- **Genre, name, author, and date** are **non-empty strings**

- The program should not do anything if any of the input fields are empty.



1. Getting the information about a new song

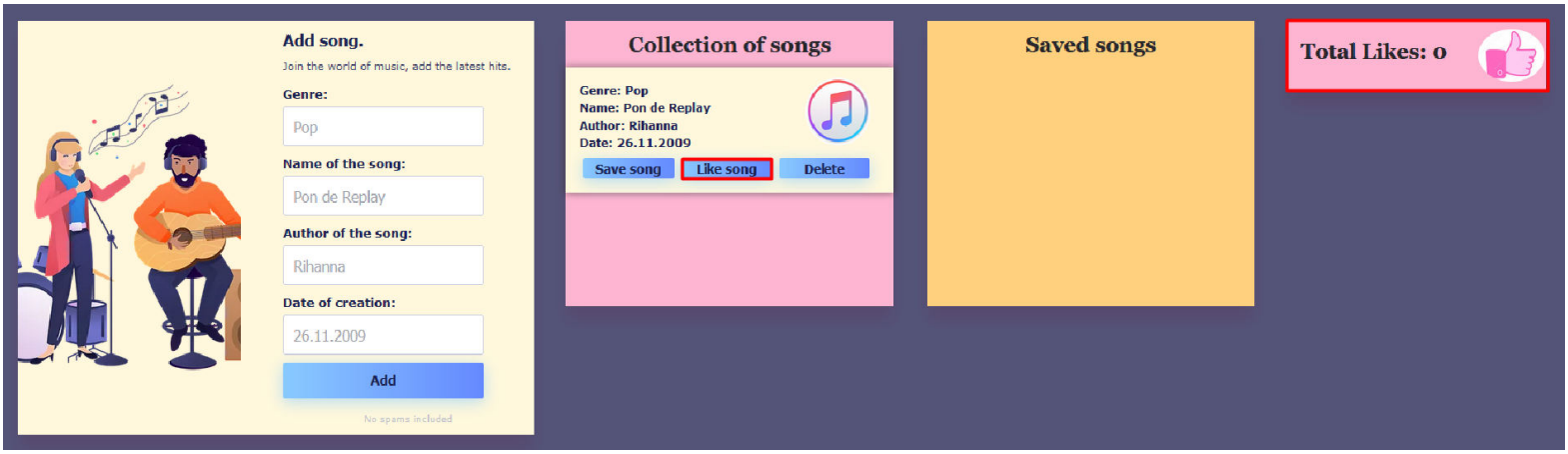
- When you click the **["Add"]** button, the information from the input fields must be added to the **div** with the **class "all-hits-container"** and then clear input fields.

- The HTML structure looks like this:

```
<section id="all-hits">
    <div class="all-hits-container">
        <h1>Collection of songs</h1>

        <div class="hits-info">
            <img src="./static/img/img.png">
            <h2>Genre: Pop</h2>
            <h2>Name: Pon de Replay</h2>
            <h2>Author: Rihanna</h2>
            <h3>Date: 26.11.2009</h3>
            <button class="save-btn">Save song</button>
            <button class="like-btn">Like song</button>
            <button class="delete-btn">Delete</button>
        </div>

    </div>
</section>
```

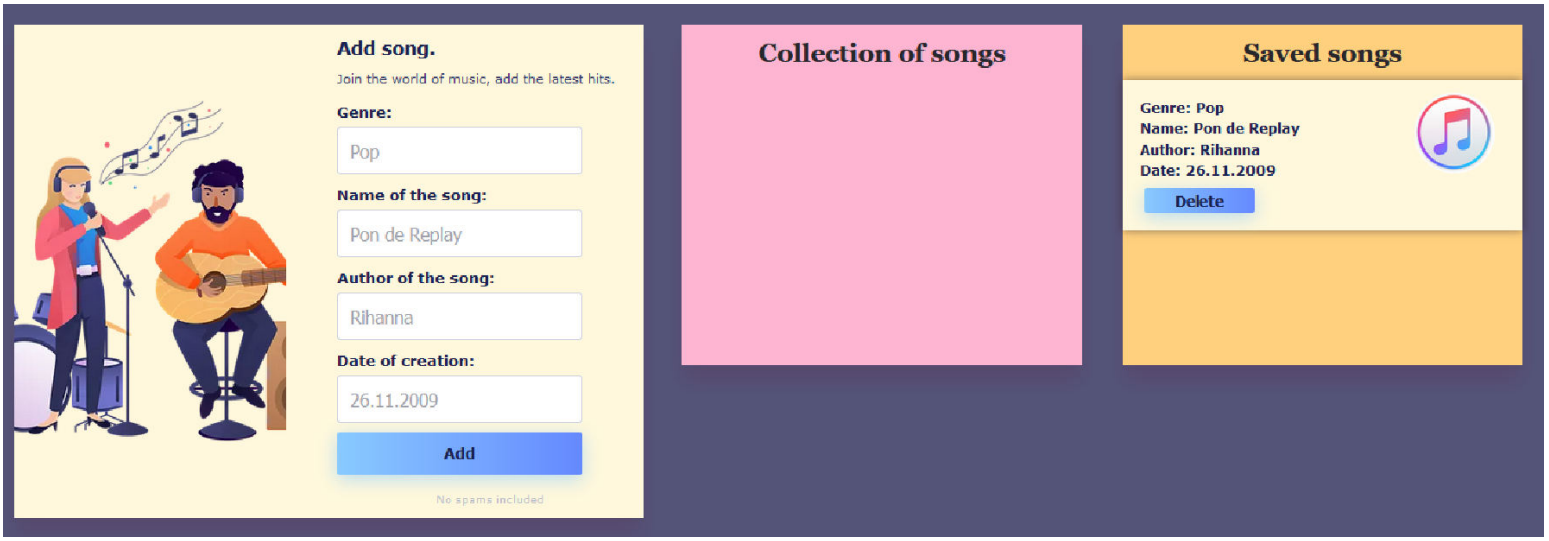


- When the **["Like song"]** button is clicked:
  - You need to take a value of the current number of **likes** inside the paragraph in the section with the id **"total-likes"** and increase the value by one.

```
<section id="total-likes">
    <div class="likes">
        <p>Total Likes: 0</p>
        <img src="./static/img/like-btn.jpg " alt="image-like ">
    </div>
</section>
```

  - The button **["Like song"]** for the current song must then be **disabled**, as the user has the right to like the song only once (Once the button is **disabled**, its color will turn gray).

- When the **["Save song"]** button is clicked, you need to move the current song in the **div** with **class "saved-container"**.

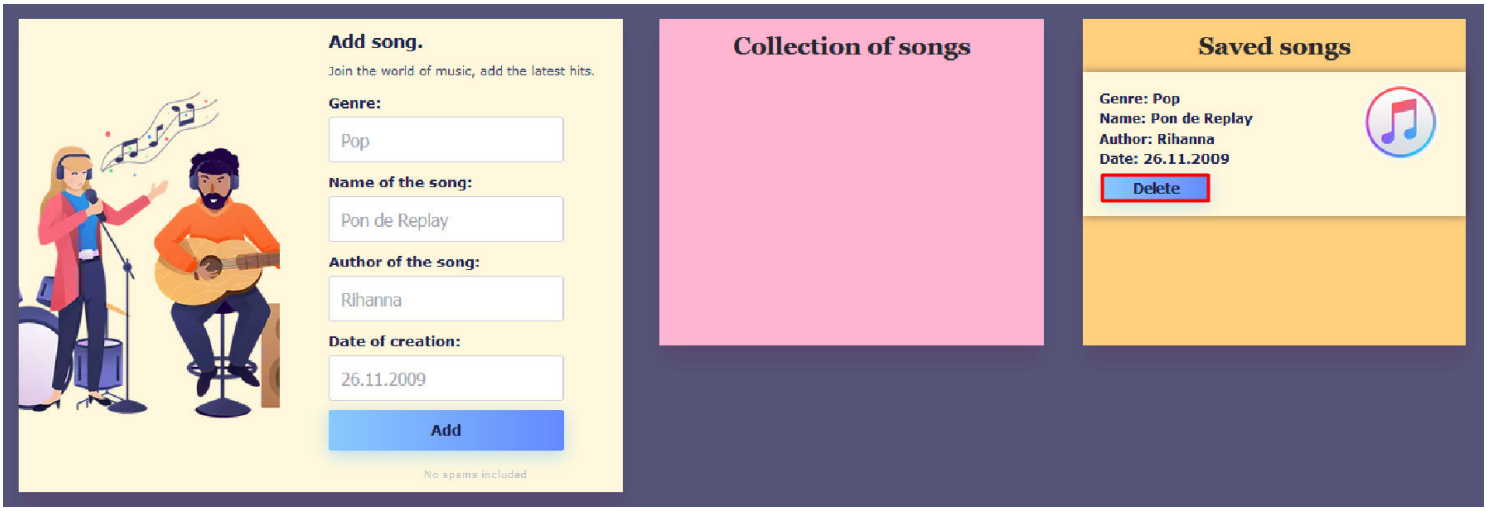


- The HTML structure looks like this:

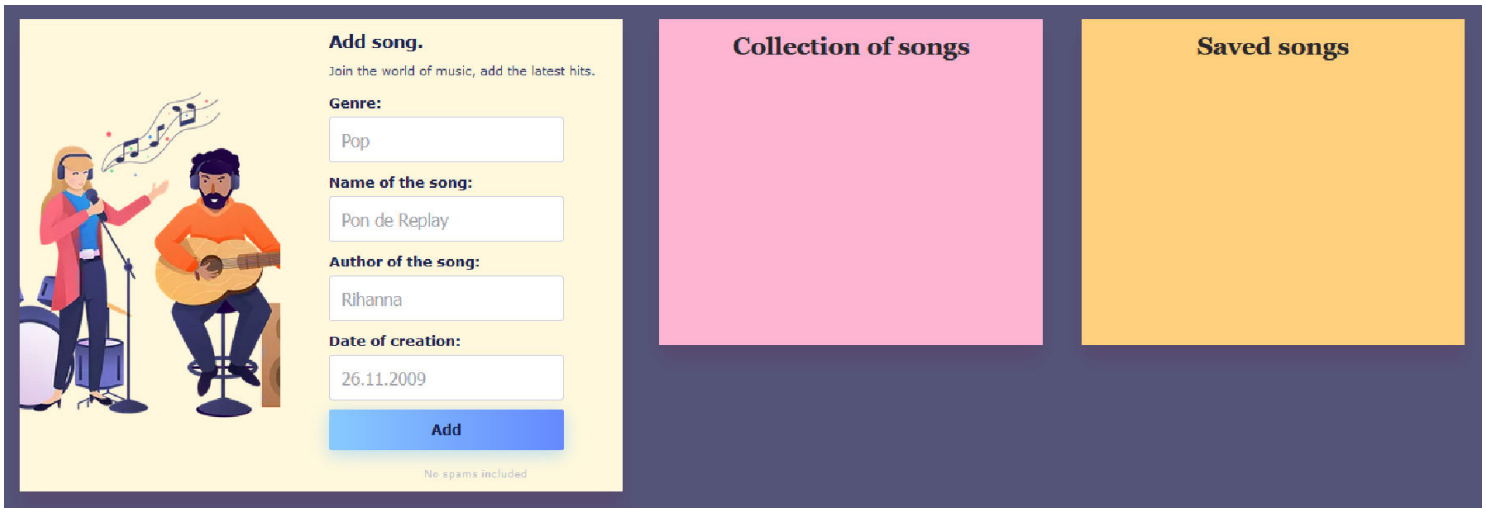
```
<section id="saved-hits">
    <div class="saved-container">
        <h1>Saved songs</h1>

        <div class="hits-info">
            <img src="./static/img/img.png">
            <h2>Genre: Pop</h2>
            <h2>Name: Pon de Replay</h2>
            <h2>Author: Rihanna</h2>
            <h3>Date: 26.11.2009</h3>
            <button class="delete-btn">Delete</button>
        </div>

    </div>
</section>
```



- When you click the **["Delete"]** button, the song should be removed from the current section.
  Note: When deleting a song, you should not reduce the value of the current number of likes.



- The HTML structure looks like this:

```
<section id="saved-hits">
    <div class="saved-container">
        <h1>Saved songs</h1>

    </div>
</section>
```

Submission

Submit only your **solve()** function.

GOOD LUCK... ☺