## Forms as DOM Elements

Some other important points about handing form data via JavaScript.

## WE'LL COVER THE FOLLOWING ^

- Accessing Form Fields
- Submitting a Form

## Accessing Form Fields #

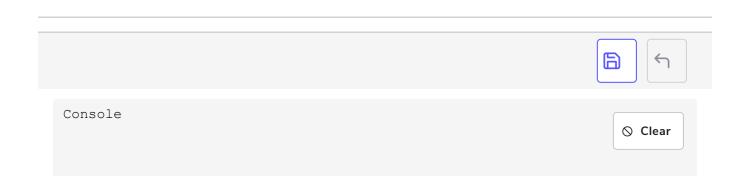
A <form> tag corresponds to a DOM element. This element has an elements property that pulls together all the form input fields. You can use this property to access a field via its name attribute or by its index (order of appearance in the form).

The below example shows some information on the input fields of our example form.

```
JavaScript

HTML

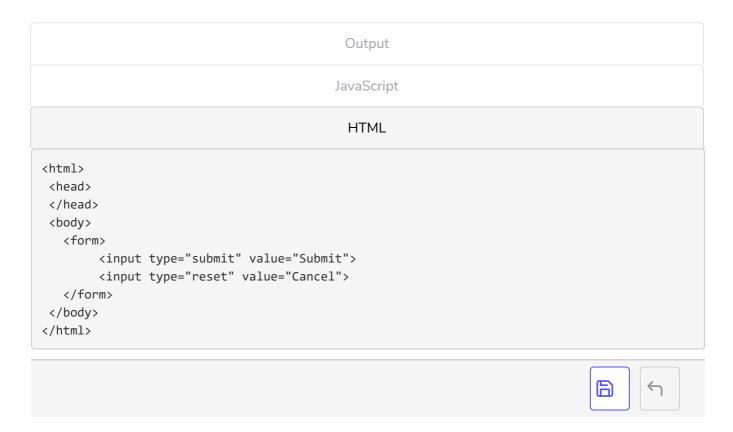
// Show some info about the first form element
const formElement = document.querySelector("form");
console.log(`Number of fields: ${formElement.elements.length}`); //
```



## Submitting a Form #

A form will be submitted when a user clicks on the submit button, which will have an <input type="submit"> tag. An <input type="reset"> tag shows a button that resets the form data.

Here are the two buttons from the sample form.



When a user submits a form, the default behavior of the browser is to contact a web server and request the resource identified by the action attribute of the <form> tag, sending form data along the way. Prior to this, a submit event is triggered on the DOM element corresponding to the form. By adding a handler for this type of event, you can access form data before it gets sent. You can cancel the request to the server by calling the preventDefault() method on the Event object associated to the event.

The following code shows in the console all user input in the form, then cancels the request to the server.



```
<html>
 <head>
</head>
<body>
  <form>
  <label for="username">Username</label>:
                <input type="text" name="username" id="username" required>
  <label for="password">Password</label>:
                <input type="text" name="password" id="password" required>
    <label for="emailAddress">Email Address</label>:
                <input type="text" name="emailAddress" id="emailAddress" required>
     <br>
                <input type="checkbox" name="confirmation" id="confirmation">
                <label for="confirmation">Send me a confirmation email</label>
       <br>
  <input type="radio" name="subscription" id="newsroom" value="newspromo">
       <label for="newsroom">Subscribe me to newsletters and promotions</label>
        <br>
       <input type="radio" name="subscription" id="news" value="news">
       <label for="news">Subscribe me only to the newsletter</label>
       <br>
       <input type="radio" name="subscription" id="no" value="no" checked>
       <label for="no">No subscriptions</label>
       <br>
  <label for="nationality">Nationality</label>:
        <select name="nationality" id="nationality">
 <option value="US" selected>American</option>
 <option value="FR">French</option>
 <option value="ES">Spanish</option>
 <option value="XX">Other</option>
       </select>
       <br><br><br>>
       <input type="submit" value="Submit">
       <input type="reset" value="Cancel">
  </form>
</body>
</html>
```





Console

**○** Clear