**Content:**

1. Name of bird
2. Link to basic info webpage
3. Name of birder
4. Name BIRD on the BRAIN
5. Allow user to input name of their birding club if they wish.
6. Could use HTML Geolocation API, but only if app is hosted on secure server (https) and user gives permission: https://www.w3schools.com/html/html5\_geolocation.asp

**W3 -Forms Section:**

For sending data to server

https://www.w3schools.com/html/html\_forms.asp

**<target>** tells html where to displat the response back from server after server processes input.

<method> specifies HTTP used when subimtting the form data to server: <https://www.w3schools.com/html/html_forms_attributes.asp>

Use Post method if data is sensitive

**<input type=\_\_> value options + restricitons:** <https://www.w3schools.com/html/html_form_input_types.asp>

* <input type="button">
* <input type="checkbox">
* <input type="color">
* <input type="date">
* <input type="datetime-local">
* <input type="email">
* <input type="file">
* <input type="hidden"> (used to let python know what data set to update)
* <input type="image">
* <input type="month">
* <input type="number">
* <input type="password">
* <input type="radio">
* <input type="range">
* <input type="reset">
* <input type="search">
* <input type="submit">
* <input type="tel">
* <input type="text">
* <input type="time">
* <input type="url">
* <input type="week">

**Form Input Attributes:**  https://www.w3schools.com/html/html\_form\_attributes.asp

**Auto complete**

Use <datalist> element inside forms element for predetermined options. (Start typing into box and options that start the same way automatically autofill.

**Transferring data from HTML to Python:** see bird\_brain\_input file on Code Pen

<body>

<!--the file which will receive the input from the form

is specified in an <action> tag inside the opening <form> tag.

<form action="URL of receiving file or 'handler' file" -->

<!--if name attribute is not included, value of that input field

will not be sent to handler-->

<form>

<label for="bird">Type of Bird:</label><br>

<input type="text" id="bird" name="bird"><br><br>

<label for="date">Date of Citing:</label><br>

<input type="text" id="date" name="date"><br><br>

<label for="notes">Additional Notes:</label><br>

<input type="text" id="notes" name="notes"><br><br>

<label for="club">\*Name of Birding Group/Club</label><br>

<input type="text" id="club" name="club"><br>

<p>\*Optional</p>

<p>Was there a body of water present?</p>

<input type="checkbox" id="yes" name="yes" value="Yes">

<label for="yes">Yes</label><br>

<input type="checkbox" id="no" name="no" value="No">

<label for="no">No</label><br><br>

<input type="submit" value="Submit">

</form>

**Dropdown list started for Counties:** codepen file

<DOCUMENT! html>

<html>

<body>

<h2>Indiana Counties</h2>

<p>Choose county in which bird was sighted:</p>

<form action="/action\_page.php">

<input list="counties" name="counties">

<datalist id="counties">

<option value="Adams">

<option value="Allen">

<option value="Bartholomew">

<option value="Benton">

<option value="Blackford">

<option value="Boone">

<option value="Brown">

<option value="Grant">

<option value="Carroll">

</datalist>

<input type="submit">

</form>

<p><b>Note:</b> If bird was sighted flying from one county into another, you are up shit creek.</p>

</body>

</html>

**Relative URLS:**

**Text

Description automatically generated**

**Stock Photo Sites:**

Graphical user interface, application

Description automatically generated with medium confidence

**Aligning Images (Flow): Old way**

**Text

Description automatically generated with medium confidence**

Photo Editors: Adobe Photoshop = best (cheaper version is Photoshop Elements

A picture containing text

Description automatically generated

Text

Description automatically generated with medium confidence

**Placeholder attribut in search box:**

**Graphical user interface, text

Description automatically generated**

**<label> Needed for form elements for reading impaired:**

**Graphical user interface

Description automatically generated**

* 1. Checking Whether a Value is in a List Conditions: *in* = used to determine if value is in a list (e.g., whether user name exists before allowing new user to use that name; in a mapping project (like bird brain app), might want to check if a location is already in a list)

>>> birds = ['jay', 'junko', 'hawk', 'sparrow']

>>> 'jay' in birds

True

>>> 'hummer' in birds

False

locations = ['madison', 'grant', 'marion', 'howard']

location = **'lincoln'**

if location not in locations:

    print(f"You may add {location.title()}.")

if location in locations:

    print(f"{location.title()} already exisits.  You may not add it.")

location = **'madison'**

if location not in locations:

    print(f"You may add {location.title()}.")

if location in locations:

    print(f"{location.title()} already exisits.  You may not add it.")

You may add Lincoln.

Madison already exisits. You may not add it.