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Sure, here is an example of an HTML file that includes JavaScript to create a
user object and functions to manipulate it. The functions will allow you to
change the user's name, update the email, and calculate the user's birth year
based on their age.
HTML Code
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>User Object Manipulation</title>
</head>
<body>
    <h1>User Object Manipulation</h1>
    <div>
        <label for="name">Name:</label>
        <input type="text" id="name">
    </div>
    <div>
        <label for="email">Email:</label>
        <input type="email" id="email">
    </div>
    <div>
        <label for="age">Age:</label>
        <input type="number" id="age">
    <button onclick="changeName()">Change Name</button>
    <button onclick="updateEmail()">Update Email</button>
    <button onclick="calculateBirthYear()">Calculate Birth Year</button>
    <h2>0utput</h2>
    <script src="script.js"></script>
</body>
</html>
JavaScript Code (script.js)
// User object
let user = {
    name: "John Doe"
    email: "john.doe@example.com",
    age: 30
};
// Function to change the user's name
function changeName() {
    let newName = document.getElementById('name').value;
    if (newName) {
        user.name = newName;
        displayUser();
    } else {
        alert('Please enter a name.');
    }
}
// Function to update the user's email
function updateEmail() {
    let newEmail = document.getElementById('email').value;
    if (newEmail) {
        user.email = newEmail;
        displayUser();
    } else {
        alert('Please enter an email.');
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}
}
// Function to calculate the user's birth year
function calculateBirthYear() {
    let currentYear = new Date().getFullYear();
    let birthYear = currentYear - user.age;
    document.getElementById('output').textContent = `User's birth year: $
{birthYear}`;
// Function to display the user object
function displayUser() {
    document.getElementById('output').textContent = JSON.stringify(user, null,
2);
}
// Initial display of the user object
displayUser();
Explanation
HTML Structure: The HTML file includes input fields for the user's name, email,
and age, and buttons to trigger the respective functions.
JavaScript Object: A user object is created with properties for name, email, and
age.
Functions:
changeName(): Updates the user's name with the value from the input field.
updateEmail(): Updates the user's email with the value from the input field.
calculateBirthYear(): Calculates and displays the user's birth year based on the
current year and the user's age.
Output: The displayUser() function displays the current state of the user object
in a formatted JSON string within a pre element.
You can open this HTML file in a web browser to see the output and manipulate
the user object interactively.
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