# https://encrypted-tbn3.google.com/images?q=tbn:ANd9GcTLAZpQzmzAPnXtyNCq1onsRE4y0bvoWlMvd3YA8Lt715oLXEJxWAIT 5443 Web Technologies Study Guide **Module 6: Forms and Processing with JavaScript**

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## Overview and learning outcomes

HTML form is one of the basic methods to accept user inputs. Upon the completion of this module, you will be able to:

1. Describe the following HTML form elements and create HTML forms with them:
   1. <form> and its attributes “method”, “action” and “target”
   2. Textbox <input type=”text”>, <textarea>
   3. Button <button>, <input type=”submit”>, <input type=”reset”>, <input type=”button”>
   4. Checkbox <input type=”checkbox”>
   5. Radio button <input type=”radio”>
   6. Dropdown list <select>
2. Design and develop simple static HTML forms using the elements above.
3. Perform basic form processing at the client side using JavaScript:
   1. Retrieve user input from various form elements and perform actions such as calculation.
   2. Perform basic client-side input validation.

This module is related to course level learning outcomes 2.

## Task list

1. Follow the core online learning materials listed in learning materials to learn and practice HTML form processing with JavaScript.
2. Lab exercise: follow the form lab guide (no submission; practice until you feel comfortable and confident to complete the project)
3. Project: complete project milestone #2 (covering all JavaScript modules #4 to #6).
4. Quiz: complete quiz #3 (module #5 and #6).

## Learning materials

1. Core learning materials:
   1. <https://www.w3schools.com/html/html_forms.asp> - the first three sections are required (menu on the left). Please practice “Try it yourself” and Exercises (online examples provided by W3Schools) as your read these webpages. You may skip some content focusing on HTML 5 Form Elements.
   2. JavaScript-coder form tutorial
      1. <http://javascript-coder.com/html-form/html-form-tutorial-p1.phtml>
      2. <http://javascript-coder.com/html-form/html-form-tutorial-p2.phtml>
   3. JavaScript-coder JavaScript form tutorial <http://www.javascript-coder.com/javascript-form>: good examples on using JavaScript to process form data on the client side. At least read the following articles:
      1. <http://javascript-coder.com/javascript-form/javascript-get-form.phtml>
      2. <http://javascript-coder.com/javascript-form/javascript-get-check.phtml>
      3. <http://javascript-coder.com/javascript-form/javascript-get-select.phtml>
      4. <http://javascript-coder.com/javascript-form/getelementbyid-form.phtml>
      5. <http://javascript-coder.com/javascript-form/javascript-calculator-script.phtml>
2. Lecture notes “HTML form.pptx”
3. “js form examples and lab.zip”
   1. Examples provided by the instructor.
   2. HTML form lab guide and associated files.
4. Additional readings and resources
   1. Mozilla Learning:
      1. <https://developer.mozilla.org/en-US/docs/Learn/HTML/Forms/Your_first_HTML_form>
      2. <https://developer.mozilla.org/en-US/docs/Learn/HTML/Forms/How_to_structure_an_HTML_form>
      3. <https://developer.mozilla.org/en-US/docs/Learn/HTML/Forms/The_native_form_widgets> (You can skip “advanced form widgets” and “other widgets”.)
   2. <http://edutechwiki.unige.ch/en/HTML_forms_tutorial#Forms_processing_with_JavaScript>
   3. <https://javascript.info/forms-controls>
   4. <http://itwebtutorials.mga.edu/js/default.aspx> chapter 9