

HTML: FORMS

Every time you connect to Office365, or to any other website, you use a form.

Figure 1 shows a much simple form, where you have only two inputs (a text, the login, and a password — that's also a text input that hides what you type), see Listing 1.

More complex forms use checkboxes, scrolling menus, multiple textual inputs...

For a form to be really useful, we need to learn php. When you submit a form (click on the "Submit" button or press "Enter" in a textual input), the form sends all the information you put inside to a php script, and handles it.

Figure 1: <https://sms.eurisc.eu/login>

But, before we cover php, I'd like you to try out the rendering of a form, before trying out the real interaction with user-submitted information.

```

1 <div class="msm-r-grid">
2   <div class="row">
3     <div class="col-sm-12">
4       <div class="form-group">
5         <label class="form-element-label">Email</label>
6         <input type="text" id="login_user_email" name="login[
          user_email]" required="required" value="" class="form-
          control" />
7       </div>
8     </div>
9   </div>
10  <div class="row">
11    <div class="col-sm-12">
12      <div class="form-group">
13        <label class="form-element-label">Password<a class="right"
          href="#" id="retrieve-password" tabindex="-1">recover
          password</a></label>
14        <input type="password" id="login_user_password" name="login[
          user_password]" required="required" class="form-control"
          />
15      </div>
16    </div>
17  </div>
18  <div class="row">
19    <div class="col-sm-12">
20      <button type="submit" id="login_login" name="login[login]" class=
          "btn-primary">login</button>
21    </div>
22  </div>
23 </div>

```

Listing 1: SMS Login webpage

1. First, have a look at Listing 1, which is the code that generates what you see in Figure 1.
 - (a) What is the html code that generates a textual input?
 - (b) What is the html code that generates a textual input, where the text is hidden when you type it? (each character is replaced by a *)

Figure 2: <https://www.mtgpics.com/search>

2. Then, have a look at the website from Figure 2. If you inspect the source code, the form starts at line 396 (or search for `<form name=engine method=post action=results>`). You have basically everything in this form, even though the code is quite complicated (and not well indented, it's generated through php with no concern for the rendering of the html code). You can see that there are some small mistakes in the code (shown in red), but this does not alter the rendering: html is able to "forget" those mistakes and show the webpage, even though the html code is not 100% compliant with the standard. An excerpt of this code is shown in Listing 1.

- What html code generates a checkbox?
- What html code generates a scrolling menu?
- What html code generates a multiple choice where you can select only one answer?
- Can you explain what happens when you click on a box, on a button or on some images in this form (e.g. when you click on "All versions" or on "Planeswalker")? Where is (in the file) the code that is executed in that case?
- When you make clicks explained in the previous question, the appearance of the page changes. Is information exchanged with the server in that case? Why?

3. Now, have a look at the image from Figure 3. What bug do you see?

Hint: http://www.barsamian.am/2021-2022/S6ICTE/TP10_Handling_data_1.pdf.

4. Compare Figure 3 and Figure 4. Can you spot the main design difference that will make keyword searches on my site really different from keyword searches on the Luxemburg website? Can you guess what happens when you click on "☑"?

5. Last but not least: try to make a webpage that has the same rendering as my website on Figure 4. The "☑" image (with inverted colors, because it's on a black background) is available on:

http://www.barsamian.am/2022-2023/S7ICTE/TP3_select_all_white.png.

Bac and Prebac Database

Search The Question Database

See which exams have been uploaded

Note: If the question has not been uploaded in the language requested, an English version will appear.

Keyword search

Exam: AND AND

Topic:

- Analysis
- Rational
- Exponential
- Logarithmic
- Trigonometric
- Quadratic
- Cubic
- Limits
- Derivative Graphs
- Continuity
- Differentiability
- Differential equations
- Differentiation
- Tangents
- Integration
- Area
- Volume of Revolution
- Probability
- Tree Diagrams
- Combinations
- Conditional
- Bayes
- Binomial
- Contingency
- Normal
- Geometry
- Conics
- Circles of Intersection
- Spheres

Search by Exam and Lang **Search by Year and Lang** **Search by Year, Exam and Lang**

Exam: Year: Year: Exam: Lang: Lang: Lang:

Language dropdown menu: English, Français, Deutsch, Czech, dansk, eesti, Greek, Espagnole, Finnish, Hungarian, italiana, Latvian, Lithuanian, Nederlands, Polish, Portuguese, Slovak, Slovenian, svenska

Figure 3: Luxemburg European School (only up to 2010, not useful for you)

European School B Tests Database

Search exercises inside the database

[See the list of all exams in the database](#)

Levels (European Schools)	Levels (French System)	Languages
<input type="checkbox"/> S4P4 <input type="checkbox"/> S5P4 <input type="checkbox"/> S4P6 <input type="checkbox"/> S5P6 <input type="checkbox"/> S6P3 (Old) <input type="checkbox"/> (New Syllabus) <input type="checkbox"/> S6P5 (New Syllabus) <input type="checkbox"/> S7P3 (Old) <input type="checkbox"/> (New Syllabus - Sample Exams) <input checked="" type="checkbox"/> S7P5 (New Syllabus - Sample Exams)	<input type="checkbox"/> Term. ES (Economy Social) Technological tool <input type="checkbox"/> With <input type="checkbox"/> Without	<input type="checkbox"/> Spanish <input type="checkbox"/> Czech <input type="checkbox"/> French <input type="checkbox"/> Polish <input type="checkbox"/> English <input type="checkbox"/> Danish <input type="checkbox"/> German <input type="checkbox"/> Hungarian <input type="checkbox"/> Italian <input type="checkbox"/> Dutch
Algebra	Analysis	Geometry
<input checked="" type="checkbox"/> Square roots <input type="checkbox"/> Powers, Sci. notation <input type="checkbox"/> Proportionality, Linearity <input type="checkbox"/> Equations <input type="checkbox"/> Rational numbers <input type="checkbox"/> Special ids., Pascal triangle <input type="checkbox"/> System of equations <input type="checkbox"/> Polynomials <input type="checkbox"/> Quadratic equations <input type="checkbox"/> Trigonometric equations <input type="checkbox"/> Exponentials <input type="checkbox"/> Logarithms <input type="checkbox"/> Prime numbers <input type="checkbox"/> Sequences: arith. / geo. <input type="checkbox"/> Sequences: other <input type="checkbox"/> Complex numbers <input type="checkbox"/> Multiple choice (MCQ)	<input checked="" type="checkbox"/> Linear functions <input type="checkbox"/> Graph of a function <input type="checkbox"/> Images and inverse images <input type="checkbox"/> Variations, Extremums <input type="checkbox"/> Quadratic functions <input type="checkbox"/> Polynomial functions <input type="checkbox"/> Periodic functions <input type="checkbox"/> Exponential functions <input type="checkbox"/> Logarithmic functions <input type="checkbox"/> Limits, Asymptotes <input type="checkbox"/> Derivatives, Tangent lines <input type="checkbox"/> Primitives, Integral calculus <input type="checkbox"/> Area under the curve <input type="checkbox"/> Functions of 2 vars. <input type="checkbox"/> Composite functions <input type="checkbox"/> Multiple choice (MCQ)	<input checked="" type="checkbox"/> Pythagoras theorem <input type="checkbox"/> Trigonometric ratios <input type="checkbox"/> Circles <input type="checkbox"/> Enlargement / reduction <input type="checkbox"/> Intercept theorem (Thales) <input type="checkbox"/> Vectors: coordinate system <input type="checkbox"/> Radians <input type="checkbox"/> Trigonometric formulae <input type="checkbox"/> Vectors: scalar product <input type="checkbox"/> 3d geometry <input type="checkbox"/> Area computation <input type="checkbox"/> Volume computation <input type="checkbox"/> Parametric equations <input type="checkbox"/> Multiple choice (MCQ)

Figure 4: <http://www.barsamian.am/mathsexams>: “New Syllabus — Sample Exams” for the new bac