

**1. Text Fields:** Text fields are commonly used for single-line text input.

**HTML Form (Text Field):**

```
<form action="FormServlet" method="post">
  <label for="username">Username:</label>
  <input type="text" id="username" name="username">
  <input type="submit" value="Submit">
</form>
```

**Servlet:**

```
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    String username = request.getParameter("username");
    // Process data
}
```

**2. Password Fields:** Password fields are similar to text fields but hide the input text.

**HTML Form (Password Field)**

```
<label for="password">Password:</label>
<input type="password" id="password" name="password">
```

**Servlet**

```
String password = request.getParameter("password");
```

**3. Radio Buttons:** Radio buttons allow users to select only one option from a set.

**HTML Form (Radio Buttons)**

```
<label>Gender:</label>
<input type="radio" name="gender" value="Male"> Male
<input type="radio" name="gender" value="Female"> Female
```

**Servlet**

```
String gender = request.getParameter("gender"); // Will get "Male" or "Female"
```

**4. Checkboxes:** Checkboxes allow multiple selections. When selected, they pass their value; otherwise, they are not sent in the request.

**HTML Form (Checkboxes)**

```
<label>Skills:</label>
<input type="checkbox" name="skill" value="Java"> Java
<input type="checkbox" name="skill" value="Python"> Python
<input type="checkbox" name="skill" value="JavaScript"> JavaScript
```

**Servlet**

```
String[] skills = request.getParameterValues("skill"); // Array of selected values
if (skills != null) {
    for (String skill : skills) {
        // Process each skill
    }
}
```

**5. Drop-down (Select) Lists:** Drop-down lists allow users to select one or multiple options based on the multiple attributes.

**HTML Form (Single Select Drop-down):**

```
<label for="country">Country:</label>
<select id="country" name="country">
  <option value="India">India</option>
  <option value="USA">USA</option>
</select>
```

**Servlet:**

```
String country = request.getParameter("country"); // Single selected value
```

**HTML Form (Multiple Select Drop-down)**

```
<label for="languages">Languages:</label>
<select id="languages" name="languages" multiple>
  <option value="Java">Java</option>
  <option value="Python">Python</option>
  <option value="JavaScript">JavaScript</option>
</select>
```

**Servlet**

```
String[] languages = request.getParameterValues("languages"); // Array of selected values
```

**6. Hidden Fields:** Hidden fields store data that is not visible to the user but sent to the server.

**HTML Form (Hidden Field)**

```
<input type="hidden" name="userId" value="12345">
```

**Servlet**

```
String userId = request.getParameter("userId");
```

**7. Text Area:** Text areas allow for multi-line text input.

**HTML Form (Text Area)**

```
<label for="comments">Comments:</label>
<textarea id="comments" name="comments"></textarea>
```

**Servlet**

```
String comments = request.getParameter("comments");
```

**8. File Uploads:** File uploads require `enctype="multipart/form-data"` in the form and need additional handling in the servlet.

**9. Date Input:** The date input type allows users to select a date.

**HTML Form (Date Input)**

```
<label for="dob">Date of Birth:</label>
<input type="date" id="dob" name="dob">
```

**Servlet**

```
String dob = request.getParameter("dob"); // Format: YYYY-MM-DD
```