HTML Forms Generator

Create a program that generates HTML form inputs based on a JSON schema. You can use any language of your choice.

Please provide your solution as link to a public GitHub repository or an attached ZIP file.

Rules

- Each schema entry has a `type` field that determines the corresponding HTML element to generate.
- The `label` field sets the content of the `<label>` tag. If no `label` is provided, use the field name with the first letter capitalized.
- The `hint` field generates an additional `<div>` element below the `<label>` and `<input>` containing the hint text. If no hint is present, don't generate this element.
- For `select` type entries, use the `options` and `placeholder` parameters to generate the `<select>` tag and its `<option>` tags (see example below).
- Entries with type `schema` generate a `<fieldset>` element containing all nested inputs. Use the field name (capitalized) as the content for the `<legend>` tag. Note how the `name` attribute is generated for inputs inside fieldsets. Schemas can be nested multiple levels deep.
- All other fields in an entry (except `type`, `label`, `hint`, `options`, and `placeholder`) should be passed directly as attributes to the HTML input element.

Reference

For documentation on HTML `input`, `textarea`, and `select` tags, see MDN Web Docs.

Example

Input JSON schema:

```json
{
  "birthdate": {
    "type": "date",
    "label": "Date of birth",
    "hint": "We will send you a gift!"
  },
  "gender": {
    "type": "select",
    "options": [[0, "Male"], [1, "Female"], [9, "Do not
specify"]],
    "placeholder": "Please select"
  },
  "address": {
    "type": "schema",
    "schema": {
      "zip": {
        "type": "text",
        "pattern": "[1-9]{1}[0-9]{3}"
      },
      "street": {
        "type": "textarea"
      }
    }
  }
}
```

Expected HTML output:

```html
<div>
  <label for="birthdate">Date of birth</label>
  <input type="date" name="birthdate" id="birthdate">
  <div>We will send you a gift!</div>
</div>

<div>
  <label for="gender">Gender</label>
  <select name="gender" id="gender">
    <option value="">Please select</option>
```

```
      <option value="0">Male</option>
      <option value="1">Female</option>
      <option value="9">Do not specify</option>
    </select>
</div>

<fieldset>
   <legend>Address</legend>

   <div>
      <label for="address[zip]">Zip</label>
      <input type="text" name="address[zip]" id="address[zip]"
pattern="[1-9]{1}[0-9]{3}">
   </div>

   <div>
      <label for="address[street]">Street</label>
      <textarea name="address[street]" id="address[street]">
</textarea>
   </div>
</fieldset>
```