

Questions (3 points)

Le DOM (Document Object Model) est une hiérarchie d'objets qui instancie en mémoire du navigateur la structure d'une page web (HTML, éléments textuels...).

Dans l'architecture monopage (SPA), la structure HTML de l'application web n'est chargée qu'une seule fois, les connexions ultérieures au serveur n'important que des données.

```
select { color: red; } /* ou option... */
```

PHP (8.5 points)

```
<html><body>
  <?php
    $dsn = 'mysql:host=localhost;dbname=ECOMMERCE;charset=UTF8';
    $username = 'root'; $password = 'root';
    $dbh = new PDO($dsn, $username, $password) or die("Pb de connexion !");
    $sql = "SELECT * FROM rayon;";
    $sth = $dbh->prepare($sql); $sth->execute(); // ou $sth = $dbh->query($sql);
    $result = $sth->fetchAll();

    echo "<form><select name='genre'>";
    foreach ($result as $enr) {echo "<option value='". $enr['genre'] . "'>". $enr['genre'] . "</option>";}
    echo "</select>";
    echo "<input type='submit' /> </form>";

    if (isset($_GET['genre'])) {
      $sql = "SELECT * FROM rayon WHERE genre='". $_GET['genre'] . "'";
      $sth = $dbh->prepare($sql); $sth->execute(); // ou $sth = $dbh->query($sql);
      $result = $sth->fetchAll();
      echo "<select>";
      foreach ($result as $enr) {
        echo "<option value='". $enr['sous-genre'] . "'>". $enr['sous-genre'] . "</option>"; }
      echo "</select>";
    }
  ?>
</body></html>
```

Serveur JavaScript (3.5 points)

```
var express = require("express"); const mysql = require("mysql2"); // ou mysql
var app = express();
app.listen(8888);

const connection = mysql.createConnection({
  host: "localhost", user: "root", password: "root", database: "ECOMMERCE"
});
connection.connect(error => { if (error) throw error; });

app.get('/', function(_, response) {
  response.sendFile('correction.html', {root: __dirname}); });

app.get('/fonds', function(_, response) {
  sql = "SELECT * FROM rayon";
  connection.query(sql, function (err, result) {
    if (err) { response.json([]); throw err; } response.json(result);
  });
});
```

Code client JavaScript (5 points)

```
<html>
<head>
  <script>
    var data;
    function sélection(liste) {
      let genre = liste.options[liste.selectedIndex].value;
      sousgenres.setAttribute("style", "display:block");
      sousgenres.options.length = 0;
      for (let enr of data) {
        if (enr['genre'] == genre) { // ou enr.genre
          let option = document.createElement("option");
          option.setAttribute("value", enr['sous-genre']);
          option.appendChild(document.createTextNode(enr['sous-genre']));
          sousgenres.appendChild(option);
        }
      }
    }
  </script>
</head>
<body>
  <select id="genres" onChange="sélection(this)"></select>
  <select id="sousgenres" style="display:none"></select>
</body>
<script>
  async function genres() {
    const response = await fetch('http://localhost:8888/fonds');
    data = await response.json(); // On récupère tout
    const genres = document.getElementById('genres'); // inutile
    for (let enr of data) {
      let option = document.createElement("option");
      option.setAttribute("value", enr.parent);
      option.appendChild(document.createTextNode(enr.parent));
      genres.appendChild(option);
    }
  }
  genres();
</script>
</html>
```