

JQUERY AJAX AND NODEJS



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```
$('#button-click').click(function () {  
    $.ajax(  
        {  
            type: "POST",  
            url: 'http://localhost:3001/api/user/register',  
            data: JSON.stringify({  
                "name": $("#name").val(),  
                "email": $("#email").val(),  
                "password": $("#password").val()  
            }  
        },  
        error: function (e) {  
            console.log(e)  
        },  
        contentType: "application/json; charset=utf-8",  
        dataType: "json",  
  
        success: function(data, status, jqXHR) {  
            localStorage.setItem("app_token", data.token);  
        },  
    )  
})
```

```
app.get("/hello", (req, res) => {  
    res.json("Hello World");  
});
```

```
app.get("/info", async (req, res) => {  
    // req.query.q  
    try {  
        // SQL query  
        // response will contain results from database  
        if (response.rowCount == 0) {  
            res.json({ status: "not found", searchTerm: req.query.q });  
        } else {  
            res.json({ status: "ok", results: response.rows[0] });  
        }  
    } catch (err) {  
        console.error("Error running query " + err);  
        res.json({ status: "error" });  
    }  
});
```

```
app.post('/endpoint', function(req, res){  
    var obj = {};  
    console.log('body: ' + JSON.stringify(req.body));  
    res.send(req.body);  
});
```

EXAMPLE

HTML

```
<div class="form-group">  
  <label for="country">Country</label>  
  <select class="form-control" id="country-dropdown">  
    </select>  
</div>  
  
<div class="form-group">  
  <label for="state">State</label>  
  <select class="form-control" id="state-dropdown">  
    </select>  
</div>
```

EXAMPLE

JavaScript

```
$(document).ready(function() {  
  getCountryList();  
  function getCountryList() {  
    $("#country-dropdown").html("");  
    $.ajax({  
      url: "http://localhost:3000/countries-list",  
      type: "GET",  
      dataType: 'json',  
      success: function(result) {  
        $('#country-dropdown').html('<option value="">Select Country</option>');  
        $.each(result.countries, function(key, value) {  
          $("#country-dropdown").append('<option value="" + value.id + ">' + value.name + '</option>');  
        });  
      }  
    });  
  }  
});
```

When the page loads, make an ajax call to the nodejs api, which returns the list of countries, and then populate the countries html options but not the states.

EXAMPLE

NodeJS

```
app.get('/countries-list', function(req, res) {  
    db.query('SELECT * FROM countries ORDER BY id desc', function(err, rows) {  
        if (err) {  
            res.json({  
                msg: 'error'  
            });  
        } else {  
            res.json({  
                msg: 'success',  
                countries: rows  
            });  
        }  
    });  
});
```


EXAMPLE

JavaScript

```
$('#country-dropdown').on('change', function() {  
    var country_id = this.value;  
    $("#state-dropdown").html("");  
    $.ajax({  
        url: "http://localhost:3000/get-states-by-country",  
        type: "POST",  
        data: {  
            name: 'country',  
            country_id: country_id,  
        },  
        dataType: 'json',  
        success: function(result) {  
            $('#state-dropdown').html('<option value="">Select State</option>');  
            $.each(result.states, function(key, value) {  
                $("#state-dropdown").append('<option value="" + value.id + ">' + value.name + '</option>');  
            });  
        }  
    });  
});
```

If the user clicks the clicks on one of the countries, trigger then onChange event. Call the NodeJS API get-states-by-country and pass the country id to return a list of states.

EXAMPLE

NodeJS

```
app.post('/get-states-by-country', function(req, res) {  
  db.query('SELECT * FROM states WHERE country_id = "' + req.body.country_id + '"',  
    function(err, rows, fields) {  
      if (err) {  
        res.json({  
          msg: 'error'  
        });  
      } else {  
        res.json({  
          msg: 'success',  
          states: rows  
        });  
      }  
    });  
});  
});
```