

## Asynchronous JavaScript and XML

### AIM :

To submit a form using Asynchronous JavaScript and XML with nodeJS as backend service

### PROGRAM CODE :

#### App.js

```
const express = require("express");
const morgan = require("morgan");
const bp = require("body-parser");
const app = express();

app.set("view engine", "ejs");
app.use(express.static("public"));
app.use(bp.urlencoded({ extended: true }));
app.use(morgan("dev"));

app.get("/", function (req, res) {
  res.render("register");
});

app.post("/", function (req, res) {
  console.log(req.body);
  res.render("register");
});

app.listen(5000, function () {
  console.log("The server is listening at port 5000...");
});
```

## Home.html

```
<!DOCTYPE html>

<html lang="en" dir="ltr">

<head>

  <meta charset="utf-8">

  <title>Secrets</title>

  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.6.3/css/all.css" integrity="sha384-UHRtZLI+pbxtHCWp1t77Bi1L4ZtiqrqD80Kn4Z8NTSRyMA2Fd33n5dQ8lWUE00s/" crossorigin="anonymous">

  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWFspD3yD65VohhpuaCOMLASjC" crossorigin="anonymous">

  <link rel="stylesheet" href="css/styles.css">

</head>

<body>

<div class="container mt-5">

  <h1>Register</h1>

  <div class="row">

    <div class="col-sm-8">

      <div class="card">

        <div class="card-body">

          <!-- Makes POST request to /register route -->

          <form action="/" method="POST">

            <div class="form-group">

              <label for="email">Email</label>

              <input type="email" class="form-control email" name="username">

            </div>

            <div class="form-group">

              <label for="text">Name</label>
```

```
<input type="text" class="form-control text" name="name">
</div>
<div class="form-group">
  <label for="password">Password</label>
  <input type="password" class="form-control password" name="password">
</div>
<div class="form-group">
  <label for="password">Confirm Password</label>
  <input type="password" class="form-control cpassword" name="confirm password">
</div>
<br>
<button type="submit" class="btn btn-dark">Register</button>
</form>

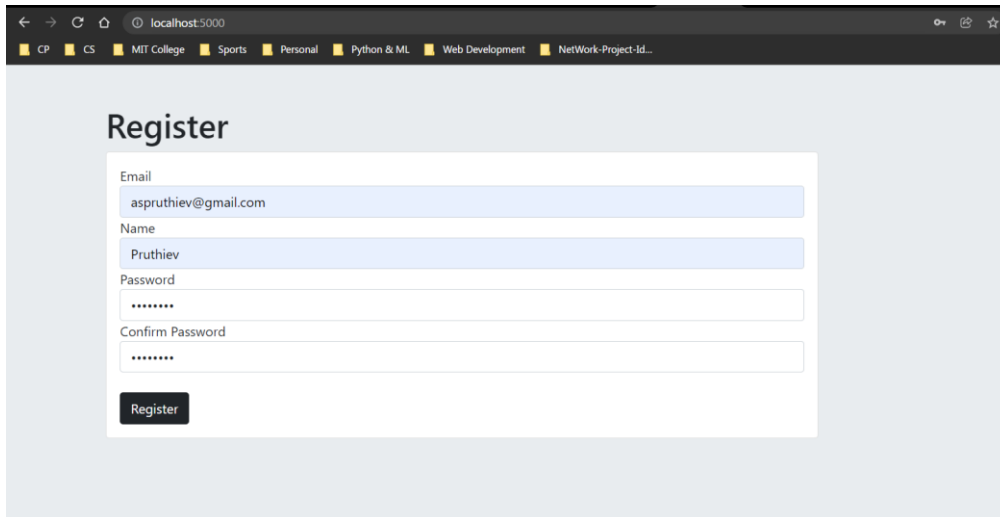
</div>
</div>
</div>
</div>
</div>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
<script src="js/Register.js"></script>
</body>
</html>
```

## Home.js :

```
$(document).ready(function () {  
    console.log("Linked ....");  
    $("form").submit((e) => {  
        var formData = {  
            username: $(".email").val(),  
            name: $(".text").val(),  
            password: $(".password").val(),  
        };  
        console.log(formData);  
        $.ajax({  
            type: "POST",  
            url: "/",  
            data: formData,  
            dataType: "json",  
            encode: true,  
        }).done(function (data) {  
            console.log(data);  
        });  
  
        event.preventDefault();  
    });  
});
```

## OUTPUT:

Before Submitting the form :



Register

Email  
aspruthiev@gmail.com

Name  
Pruthiev

Password  
\*\*\*\*\*

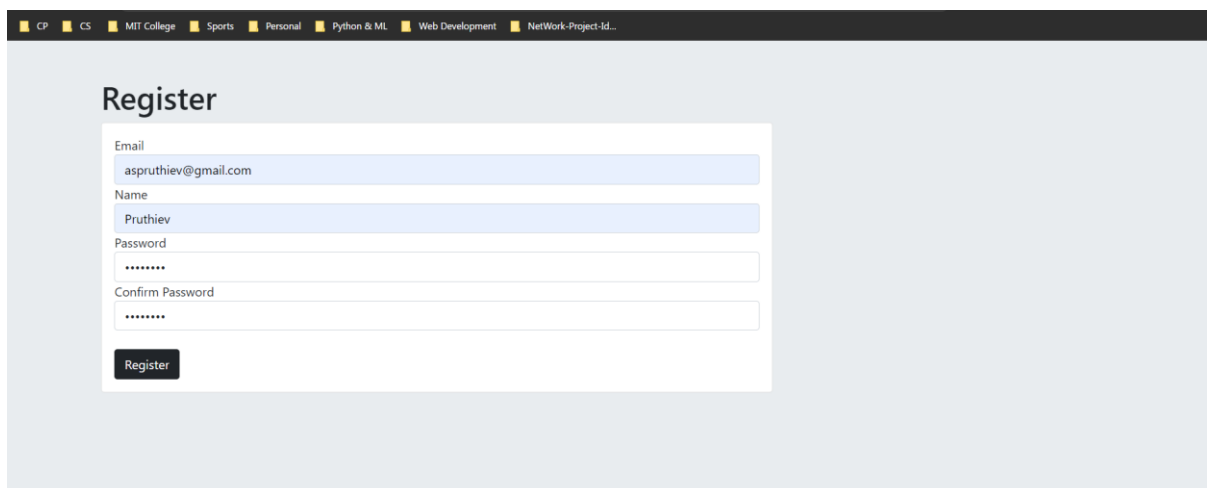
Confirm Password  
\*\*\*\*\*

Register

The form fields are collected in the backend :

```
Loading personal and system profiles took 1710ms.
> powershell -AJAX-Code main 0ms
>> node app.js
The server is listening at port 5000...
GET / 200 9.169 ms - 1898
{
  username: 'aspruthiev@gmail.com',
  name: 'Pruthiev',
  password: 'Asp@2001'
}
POST / 200 3.399 ms - 1898
[]
```

After submitting the page isn't reloaded as usual :



Register

Email  
aspruthiev@gmail.com

Name  
Pruthiev

Password  
\*\*\*\*\*

Confirm Password  
\*\*\*\*\*

Register

## RESULT :

Thus the ajax is executed successfully.