< Go to the original







Louis Trinh

Follow

androidstudio · December 17, 2024 (Updated: December 18, 2024) · Free: No

Create a project directory

Copy

mkdir socket-io-mvc-example cd socket-io-mvc-example

Initialize project:

Copy

npm init -y

Install dependencies:

Copy

npm install express socket.io

app.js (Main Server File):

```
const express = require('express');
const app = express();
const http = require('http').Server(app);
const io = require('socket.io')(http);
// Load controllers (can be refactored into a separate loader function)
const indexController = require('./controllers/index');
const socketController = require('./controllers/sockets');
// Set view engine (adjust based on your preference)
app.set('view engine', 'ejs');
```

```
// Socket.IO setup
socketController(io);
// Start server
http.listen(3000, () => {
   console.log('Server listening on port 3000');
});
```

controllers/index.js (Express Route Controller):

```
const express = require('express');
const router = express.Router();
router.get('/', (req, res) => {
   res.render('index'); // Render the main view
});
module.exports = router;
```

Socket.IO Event Handler (controllers/sockets.js):

This file defines the event handling logic for Socket.IO interactions.

```
Сору
```

```
console.log('A user connected');
  // Handle chat messages sent from the client
  socket.on('chat message', (msg) => {
    // Broadcast the message to all connected clients
    io.emit('chat message', msg);
    // Alternatively, handle message logic here (e.g., saving to database)
    // You might interact with your data models defined in the `models` directory.
  });
  // Handle socket disconnection
  socket.on('disconnect', () => {
    console.log('A user disconnected');
  });
});
```

Data Models (models Directory):

This directory can hold your application's data models, depending on your project's requirements. If you need to persist chat messages or user data, create model files (e.g., message.js or user.js) to represent your data structures and define functions for interacting with your database.

```
const mongoose = require('mongoose');
const MessageSchema = new mongoose.Schema({
  content: { type: String, required: true },
  sender: { type: String }, // Can be a user ID
  timestamp: { type: Date, default: Date.now },
});
module.exports = mongoose.model('Message', MessageSchema);
```

Main View Template (views/index.ejs):

This file defines the HTML structure and JavaScript code for the client-side interface.

Running the Application:

• From the project directory, run:

```
Copy
node app.js

◆
```

• Open http://localhost:3000/ in your browser(s). You should see multiple browser windows/tabs connected to the same chat room.

- Implement user authentication and authorization to track users and potentially restrict access to chat functionalities.
- Integrate data models to persist chat messages in a database for historical viewing or retrieval.
- Expand on event handling to support additional functionalities like private messaging, user joining/leaving notifications, etc.
- Consider using a templating engine like EJS for more dynamic views.

#nodejs #express #socketio #mvc