

# readme.md for @design.estate/dees-comms

a comms module for communicating within the DOM

## Install

To integrate `@design.estate/dees-comms` into your project, run the following command in your terminal:

```
npm install @design.estate/dees-comms --save
```

This will add the package to your project dependencies.

## Usage

`@design.estate/dees-comms` facilitates communication within the DOM, especially between various workers and tabs in client-side JavaScript. Using TypeScript and the provided ESM syntax will enhance your development experience with better intellisense support and type safety.

## Setting Up

First, make sure to import the module in your TypeScript file:

```
import { DeesComms } from '@design.estate/dees-comms';
```

## Initializing the Communication Module

Create an instance of the `DeesComms` class to start using the module. This instance will act as the central communication hub in your application.

```
const myDeesComms = new DeesComms();
```

## Sending Messages

To send messages, you'll need to create a typed request. Let's assume we are sending a message that requires a response:

```
// Define the message type
interface MyMessageType {
  method: 'myMethod';
  someData: string;
}

// Creating a typed request
const myTypedRequest = myDeesComms.createTypedRequest<MyMessageType>('myMethod');

// Firing the request
myTypedRequest.fire({
  someData: 'Hello, World!',
}).then(response => {
  console.log('Received response:', response);
});
```

## Receiving and Handling Messages

To handle incoming messages, you need to define handlers for the types of messages you expect to receive.

```
// Define the handler for the 'myMethod' message
myDeesComms.createTypedHandler<MyMessageType>('myMethod', async (incomingMessage) => {
  console.log('Message received:', incomingMessage);

  // Process the incoming message...

  // Return a response (if needed)
  return {
    response: 'Message received loud and clear!'
  };
});
```

```
});
```

# Communication Between Tabs or Workers

`@design.estate/dees-comms` uses the Broadcast Channel API and a polyfill for environments where it's not available, enabling seamless communication between different contexts like tabs, iframes, or web workers.

## Clean Up

When you're done with communication, or before creating a new instance for any reason, ensure you clean up properly to prevent memory leaks or other unexpected behaviors:

```
// Currently, the cleanup should be handled according to the specific needs of your
application
// e.g., closing or nullifying references to the DeesComms instance.
```

## Complete Example

Putting it all together, let's create a small application that sends a message and listens for a response:

```
import { DeesComms } from '@design.estate/dees-comms';

const appDeesComms = new DeesComms();

// Setting up the listener
appDeesComms.createTypedHandler<{ method: 'greet'; name: string }>('greet', async (message) =>
{
  console.log(`Greetings received from ${message.name}`);
  return { reply: `Hello ${message.name}, nice to meet you!` };
});

// Sending a greeting message
const greetRequest = appDeesComms.createTypedRequest<{ method: 'greet'; name: string }>('greet');
greetRequest.fire({ name: 'Alice' }).then(response => {
  console.log(response.reply); // Expected output: "Hello Alice, nice to meet you!"
});
```

```
});
```

This module provides a powerful and flexible way to handle communications within the DOM, leveraging modern JavaScript features and patterns. The usage of TypeScript ensures type safety and enhances code understandability and maintainability.

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## Company Information

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