* + This pipe will apply multiple string methods:
    - reverse: Reverses the string.
    - properCase: Converts the string to proper case (first letter capitalized and the rest in lowercase).
    - You can extend it with other methods like toUpperCase, toLowerCase, etc.

Create a folder in VS or use following command

Run this command in your Angular project to generate a new custom pipe:

bash

Copy code

ng generate pipe string-manipulation

This will generate a string-manipulation.pipe.ts file.

Edit the string-manipulation.pipe.ts file to implement the logic for the custom string manipulation.

import { Pipe, PipeTransform } from '@angular/core';

@Pipe({

name: 'stringManipulation'

})

export class StringManipulationPipe implements PipeTransform {

transform(value: string, ...args: any[]): string {

if (!value) return value;

let result = value;

// Reverse the string

result = this.reverseString(result);

// Convert the string to proper case

result = this.toProperCase(result);

// Example of other transformations you can include (toUpperCase, toLowerCase, etc.)

// result = result.toUpperCase();

return result;

}

// Reverse the string

private reverseString(str: string): string {

return str.split('').reverse().join('');

}

// Convert string to proper case (capitalize first letter of each word)

private toProperCase(str: string): string {

return str

.split(' ')

.map(word => word.charAt(0).toUpperCase() + word.slice(1).toLowerCase())

.join(' ');

}

* **reverseString()**: This function splits the string into an array of characters, reverses the array, and then joins it back into a string.
* **toProperCase()**: This function splits the string by spaces, capitalizes the first letter of each word, and then joins the words back together.

Now, you can use the custom pipe in your Angular component's template.

1. Open the app.component.html (or any other component's template) and use the pipe:

html

Copy code

<div>

<p>Original: {{ 'hello world' }}</p>

<p>Transformed: {{ 'hello world' | stringManipulation }}</p>

</div>

1. The expected output after transformation will be:
   * Original: hello world
   * Transformed: Dlrow Olleh (reversed string in proper case)

Run your Angular application using:

bash

Copy code

ng serve

Then, navigate to your browser at http://localhost:4200, and you should see the transformed string in the output.

Here is a simple app.component.ts for context:

typescript

Copy code

import { Component } from '@angular/core';

@Component({

selector: 'app-root',

templateUrl: './app.component.html',

styleUrls: ['./app.component.css']

})

export class AppComponent {

title = 'angular-pipe-example';

}

Here is the full example code for reference:

**string-manipulation.pipe.ts:**

import { Pipe, PipeTransform } from '@angular/core';

@Pipe({

name: 'stringManipulation'

})

export class StringManipulationPipe implements PipeTransform {

transform(value: string, ...args: any[]): string {

if (!value) return value;

let result = value;

// Reverse the string

result = this.reverseString(result);

// Convert the string to proper case

result = this.toProperCase(result);

return result;

}

private reverseString(str: string): string {

return str.split('').reverse().join('');

}

private toProperCase(str: string): string {

return str

.split(' ')

.map(word => word.charAt(0).toUpperCase() + word.slice(1).toLowerCase())

.join(' ');

}

}

html

Copy code

<div>

<p>Original: {{ 'hello world' }}</p>

<p>Transformed: {{ 'hello world' | stringManipulation }}</p>

</div>