AngularJS Filters

Topics : AngularJS
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In AngularJS, filters are used to format and manipulate data in the view. They allow you to transform the appearance of data before it is displayed to the user. AngularJS provides a set of built-in filters, and you can also create custom filters to suit your specific needs.

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Built-in Filters:

1. **{{ expression | filter:options }}:**
    - **Description:** Filters are applied to expressions in the view using the pipe (`|`) symbol. They take the form of `{{ expression | filter:options }}`.
    - **Example:**

      ```
      <p>{{ message | uppercase }}</p>
      ```

      This example uses the `uppercase` filter to transform the value of the `message` variable to uppercase.
2. **Common Built-in Filters:**
    - **`currency`:** Formats a number as a currency.
    - **`date`:** Formats a date.
    - **`filter`:** Filters an array based on a predicate.
    - **`json`:** Formats an object as JSON.
    - **`limitTo`:** Limits an array/string to a specified number of elements/characters.
    - **`lowercase` and `uppercase`:** Converts a string to lowercase or uppercase.
    - **`number`:** Formats a number as text.
    - **`orderBy`:** Orders an array by an expression.

    Example:

    ```
    <p>{{ price | currency }}</p>
    ```

    This example uses the `currency` filter to format the value of the `price` variable as currency.

Custom Filters:

You can also create your own custom filters by registering them with the `filter` function within an

AngularJS module.

1. **Define a Custom Filter:**

   ```
   angular.module('myApp').filter('customFilter', function() {
   return function(input, arg1, arg2) {
   // Custom filter logic goes here
   return result;
   };
   });
   ```

2. **Use the Custom Filter in the View:**

   ```
   <p>{{ data | customFilter:arg1:arg2 }}</p>
   ```

   In this example, `data` is the variable to be filtered, and `arg1` and `arg2` are optional arguments that can be passed to the custom filter.

Chaining Filters:

Filters can be chained together to perform multiple transformations on the data.

```
<p>{{ date | date:'mediumDate' | uppercase }}</p>
```

In this example, the `date` filter is applied first to format the date, and then the `uppercase` filter is applied to convert the result to uppercase.

Example:

Here's a simple example demonstrating the use of built-in filters and a custom filter:

```
<!DOCTYPE html>
<html lang="en" ng-app="myApp">
<head>
<meta charset="UTF-8">
<title>AngularJS Filters</title>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body ng-controller="MyController">
<p>{{ message | uppercase }}</p>
<p>{{ currentDate | date:'fullDate' }}</p>
<p>{{ amount | currency }}</p>
<p>{{ data | customFilter:'arg1':'arg2' }}</p>

<script>
angular.module('myApp', []).controller('MyController', function($scope) {
$scope.message = 'Hello, Angular!';
$scope.currentDate = new Date();
$scope.amount = 123.45;
$scope.data = 'Some data to be filtered';
```

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```
});

angular.module('myApp').filter('customFilter', function() {
return function(input, arg1, arg2) {
// Custom filter logic (replace spaces with dashes)
return input.replace(/\s+/g, '-');
};
});
</script>
</body>
</html>
```

This example uses various built-in filters (`uppercase`, `date`, `currency`) and a custom filter (`customFilter`) to manipulate and format different types of data in the view.

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