**What is an Angular Service**

Service is a piece of reusable code with a focused purpose. A code that you will use in many components across your application

Our components need to access the data. You can write data access code in each component, but that is very inefficient and breaks the rule of single responsibility. The Component must focus on presenting data to the user. The task of getting data from the back-end server must be delegated to some other class. We call such a class a Service class. Because it provides the service of providing data to every component that needs it.

**What Angular Services are used for**

1. Features that are independent of components such a logging services
2. Share logic or data across components
3. Encapsulate external interactions like data access

**Advantageous of Angular Service**

1. Services are easier to test.
2. They are easier to Debug.
3. We can reuse the service at many places.

**How to create a Service in Angular**

An Angular service is simply a Javascript function. All we need to do is to create a class and add methods & properties. We can then create an instance of this class in our component and call its methods.

One of the best uses of services is to get the data from the data source. Let us create a simple service, which gets the product data and passes it to our component.

**Product Model**

Create a new file under the folder src/app and call it product.ts

***product.ts***

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16 | export **class** Product {        constructor(productID:number,    name: **string** ,   price:number) {  **this**.productID=productID;  **this**.name=name;  **this**.price=price;      }        productID:number ;      name: **string** ;      price:number;    } |

The Product class above is our domain model.

**Product Angular Service**

Next, let us build an Angular Service, which returns the list of products.

Create a new file under the folder src/app and call it product.service.ts

***product.service.ts***

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19 | import {Product} from './product'    export **class** ProductService{        public  getProducts() {            let products:Product[];            products=[  **new** Product(1,'Memory Card',500),  **new** Product(1,'Pen Drive',750),  **new** Product(1,'Power Bank',100)          ]    **return** products;      }  } |

First, we import the Product model from the product.ts

Next, create ProductService class and export it. We need to export so that the Components & Other service class import it and use it