

HTTP Request – I Design

App.component.html :-

```
<header><h2> {{title}}</h2></header>

<mat-sidenav-container class="sideContainer" >
  <mat-sidenav class="sideNav" mode="side" opened>

    <mat-nav-list>Home</mat-nav-list>
    <mat-nav-list>Mobile Phones</mat-nav-list>
    <mat-nav-list>Accessories</mat-nav-list>
    <mat-nav-list>Speakers</mat-nav-list>
    <mat-nav-list>Watches</mat-nav-list>
    <mat-nav-list>Login</mat-nav-list>

  </mat-sidenav>
  <mat-sidenav-content>

    <!-- Fill your code here -->

    <mat-card class="card" *ngFor="let item of product">

      
      <h2 class="productName">{{item.name}}</h2>
      <p class="category">Category : {{item.category}}</p>
      <p class="price">Price : {{item.price}}</p>
      <p class="quantity">AvailQuantity : {{item.availQuantity}}</p>
      <button class="buyProd">Buy</button>

    </mat-card>

  </mat-sidenav-content>
</mat-sidenav-container>

<footer>Powered by Shopcules.com</footer>
```

Product.service.ts :-

```
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';
import { Observable } from 'rxjs';
import { Product } from '../product';

@Injectable({
  providedIn: 'root'
})
export class ProductService {
  private url = 'assets/product-mock-data.json';
  constructor (private http: HttpClient){}

  getProducts(): Observable<Product[]> {
    return this.http.get<Product[]>(this.url);
  }
}
```

Product.ts :-

```
//Create a product class with the following attributes,
export class Product {
  id : number;
  name : string;
  category : string;
  price : number;
  productImage : string;
  availQuantity : number;
}
```

App.component.ts :-

```
import { Component, OnInit } from '@angular/core';
import { Product } from '../product';
import { ProductService } from '../product.service';

@Component({
```

```

        selector: 'app-root',
        templateUrl: './app.component.html',
        styleUrls: ['./app.component.css']
    })
    export class AppComponent implements OnInit {

        title="Welcome to Online shopping website"
        product: Product[] = [];

        constructor (private productService: ProductService){}

        ngOnInit(): void {
            this.productService.getProducts().subscribe(products => {
                this.product = products;
            })
        }
    }
}

```

Assets/product-mock-data.json :-

```

[
    { "id": 1, "name": "Samsung Galaxy Note 10", "category": "Mobile Phones" ,"price":69900,"availQuantity":5,"productImage":"../assets/img/product1.jpg" },
    { "id": 2, "name": "SkullCandy BT Inkd Plus" ,"category": "Headset" ,"price":1999,"availQuantity":10,"productImage":"../assets/img/product2.jpg" },
    { "id": 3, "name": "JBL Flip 3 Bluetooth" ,"category": "Speakers" ,"price":5999,"availQuantity":15,"productImage":"../assets/img/product4.jpg" },
    { "id": 4, "name": "Conekt Volt Power Bank" ,"category": "Mobile Phones" ,"price":1350,"availQuantity":9,"productImage": "../assets/img/product5.jpg" },
    { "id": 5, "name": "Anker Soundbuds Rise" ,"category": "Headset" ,"price":2750 ,"availQuantity":20,"productImage": "../assets/img/product3.jpg" },
    { "id": 6, "name": "Apple Watch Series" ,"category": "Watch" ,"price":5290,"availQuantity":14,"productImage": "../assets/img/product6.jpg" },
    { "id": 7, "name": "IBall Slide Spirit X2" ,"category": "Mobile Phones" ,"price":4750,"availQuantity":16,"productImage": "../assets/img/product7.jpg" },
    { "id": 8, "name": "Skullcandy Set 2.0 " ,"category": "Headset" ,"price":1500,"availQuantity":8,"productImage": "../assets/img/product8.jpg" },
    { "id": 9, "name": "Infinix Smart 3 plus" ,"category": "Mobile Phones" ,"price":2790,"availQuantity":0,"productImage": "../assets/img/product9.jpg" },

```

```

    { "id": 10, "name": "Timex Three Hand" , "category": "Watch" , "price": 2540, "availQuantity": 3, "productImage": "../assets/img/product10.jpg"},
    { "id": 11, "name": "Sony XB01 EXTRA BASS" , "category": "Speakers" , "price": 8777, "availQuantity": 18, "productImage": "../assets/img/product11.jpeg" },
    { "id": 12, "name": "Xiaomi Mi A3", "category": "Mobile Phones" , "price": 12990, "availQuantity": 25, "productImage": "../assets/img/product11.jpg"},
    { "id": 13, "name": "Samsung Galaxy M10", "category": "Mobile Phones" , "price": 8090, "availQuantity": 13, "productImage": "../assets/img/product12.jpg"},
    { "id": 14, "name": "One Plus 7", "category": "Mobile Phones" , "price": 32090, "availQuantity": 19, "productImage": "../assets/img/product13.jpg"},
    { "id": 14, "name": "Brainwavz Jive", "category": "Headset" , "price": 3500, "availQuantity": 21, "productImage": "../assets/img/product14.png"}
  ]

```

HTTP Request – I Assess

```

// app/app.component.html

<div class="container">
  <div class="row">
    <div class="col-md-12">
      <h1 class="text-center">ABL Online Library - Book List</h1>
    </div>
  </div>
  <div class="row">
    <app-book-list-http></app-book-list-http>
  </div>
</div>

```

```

// app/book-list-http/book-list-http.component.ts
import { Component, OnInit } from '@angular/core';
import { LibraryService } from 'src/assets/services/library.service';
import { IBook } from 'src/app/book-interface';

@Component({
  selector: 'app-book-list-http',
  templateUrl: './book-list-http.component.html',
  styleUrls: ['./book-list-http.component.css']
})
export class BookListHttpComponent implements OnInit {

```

```

books: IBook[] = [];

constructor(private libraryService: LibraryService) { }

ngOnInit(): void {
  this.libraryService.getBooks().subscribe(books => {
    this.books = books;
    console.log(this.books); // Check if the books array is being populated
    correctly
  });
}
}

```

```

// app/book-list-http/book-list-http.html

<div class="row">
  <div class="col-md-4" *ngFor="let book of books; let i = index">
    <div class="card" id="book-card">
      
      <div class="card-body">
        <h5 class="card-title" id="book-title-{{i}}">{{book.title}}</h5>
        <p class="card-text" id="book-author-{{i}}">Author: {{book.author}}</p>
        <p class="card-text" id="book-desc-{{i}}">{{book.description}}</p>
        <button class="btn btn-primary" id="btn-rent-{{i}}" (click)="onRentClick(book.id)">Rent</button>
        <button class="btn btn-secondary" id="btn-wish-{{i}}" (click)="onWishListClick(book.id)">Wishlist</button>
      </div>
    </div>
  </div>
</div>

```

```

// app/book-interface.ts
export interface IBook {
  id: number;
  title: string;
  author: string;
  description: string;
}

```

```
// assets/services/library.services.ts
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';
import { IBook } from 'src/app/book-interface';
import { Observable } from 'rxjs';

@Injectable({
  providedIn: 'root'
})
export class LibraryService {
  private apiUrl = 'assets/data/books.json';

  constructor(private http: HttpClient) { }

  getBooks(): Observable<IBook[]> {
    return this.http.get<IBook[]>(this.apiUrl);
  }
}
```