## Làm việc với Array

Giới thiệu và khai báo mảng : foreach , sort, map , filter, reduce

<https://longnv.name.vn/javascript-nang-cao/mang-trong-javascript> ,

<https://viblo.asia/p/tim-hieu-ve-phuong-thuc-reduce-trong-javascript-djeZ1mx8ZWz>

## Hiện 1 đối tượng (sản phẩm, thú cưng, dịch vụ, nhân viên, bác sĩ, menu item)

Tạo file sp.ts

### Tạo kiểu dữ liệu và sử dụng

type TLaptop = {

    id:number,

    ten\_sp: string,

    hinh: string,

    gia: number,

    ngay:string,

    luot\_xem: number

}

### Khai báo kiến theo kiểu dữ liệu

let sp1:TLaptop = {

    id:1,

    ten\_sp:"Asus Vivobook Go 15 E1504FA R5",

    hinh:"images/1.jpg",

    gia: 12000000,

    ngay:"2024-09-12",

    luot\_xem:120

}

### Định nghĩa hàm hiện đối tượng

function hien1sp(){

    let str =`

        <div class="sp1">

            <h3>${sp1.ten\_sp}</h3>

            <p>Giá: ${Number(sp1.gia).toLocaleString("vi")} VNĐ</p>

            <img src="${sp1.hinh}">

            <p>Cập nhật: ${new Date(sp1.ngay).toLocaleDateString("vi")}</p>

            <p>Lượt xem: ${sp1.luot\_xem}</p>

        </div>`;

    return str;

}

### Hiện ra trang web

<!DOCTYPE html> <html>

<head> <title>Thông tin Sản phẩm </title> </head>

<body> <div id="data"></div> </body>

</html>

<script src="js/sp.js"></script>

<script>

    document.querySelector("#data").innerHTML = hien1sp() ;

</script>

### Định dạng css

#data { display: flex; flex-wrap: wrap;}

.sp1 {

    width: 32%;

    text-align: center;

    border: 1px solid darkcyan;

    box-sizing: border-box;

    margin:auto;

    font-size: 1.3em;

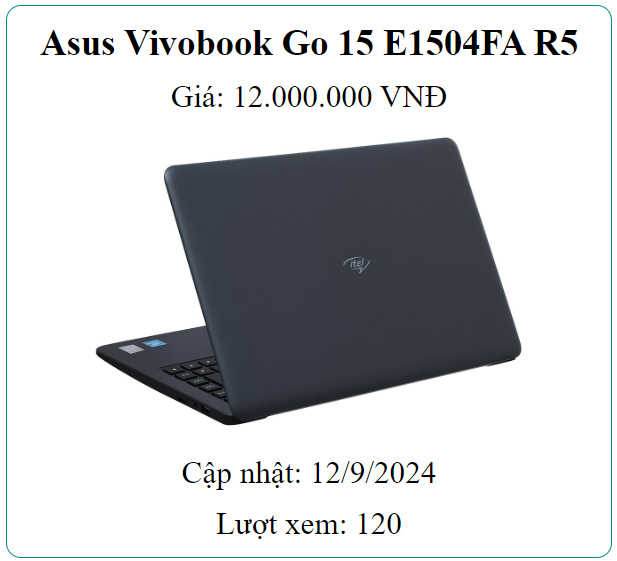
    margin-bottom: 20px;

    border-radius: 10px;

}

.sp1 h3, .sp1 p { margin-top: 10px; margin-bottom: 10px;}

.sp1 img { width: 75%}



## Hiện mảng các đối tượng (sản phẩm, thú cưng, dịch vụ, nhân viên, bác sĩ, menu item)

### Khai báo biến

let sp\_arr:TLaptop[] = [

   { id:1, ten\_sp:"Asus Vivobook Go 15", hinh:"images/1.jpg", gia: 11000000,ngay:"2024-09-12", luot\_xem:312 },

   { id:2, ten\_sp:"Vivobook Go 15 R5", hinh:"images/1.jpg", gia: 16000000,ngay:"2024-09-12", luot\_xem:330 },

   { id:3, ten\_sp:"Go 15 E1504FA R5", hinh:"images/1.jpg", gia: 14000000,ngay:"2024-09-12", luot\_xem:520 },

   { id:4, ten\_sp:"Asus 15 E1504FA R5", hinh:"images/1.jpg", gia: 15000000,ngay:"2024-09-12", luot\_xem:250 },

   { id:5, ten\_sp:"Vivobook Go 15 E1504FA", hinh:"images/1.jpg", gia: 17000000,ngay:"2024-09-12", luot\_xem:220 },

   { id:6, ten\_sp:"Go 15 E1504FA F5", hinh:"images/1.jpg", gia: 14000000,ngay:"2024-09-12", luot\_xem:160 },

   { id:7, ten\_sp:"Vivobook E1504FA R5", hinh:"images/1.jpg", gia: 12000000,ngay:"2024-09-12", luot\_xem:150 },

   { id:8, ten\_sp:"Go 15 E1504FA P1", hinh:"images/1.jpg", gia: 13000000,ngay:"2024-09-12", luot\_xem:10 },

   { id:9, ten\_sp:"Vivobook Go I7 Y5", hinh:"images/1.jpg", gia: 11000000,ngay:"2024-09-12", luot\_xem:12 },

];

### Định nghĩa hàm hiện đối tượng

function **show1sp**(sp:TLaptop){

    let str =`

        <div class="sp1">

            <h3>${sp.ten\_sp}</h3>

            <p>Giá: ${Number(sp.gia).toLocaleString("vi")} VNĐ</p>

            <img src="${sp.hinh}">

            <p>Cập nhật: ${new Date(sp.ngay).toLocaleDateString("vi")}</p>

            <p>Lượt xem: ${sp.luot\_xem}</p>

        </div>`;

    return str;

}

function hienlistsp() {

    let str="";

    sp\_arr.forEach ( sp => str+= **show1sp**(sp) )

    return str;

}

### Hiện ra trang web

<!DOCTYPE html><html>

<head>

    <title>Thông tin Sản phẩm </title>

    <link rel="stylesheet" href="css/sp.css">

</head>

<body> <div id="data"></div> </body>

</html>

<script src="js/sp.js"></script>

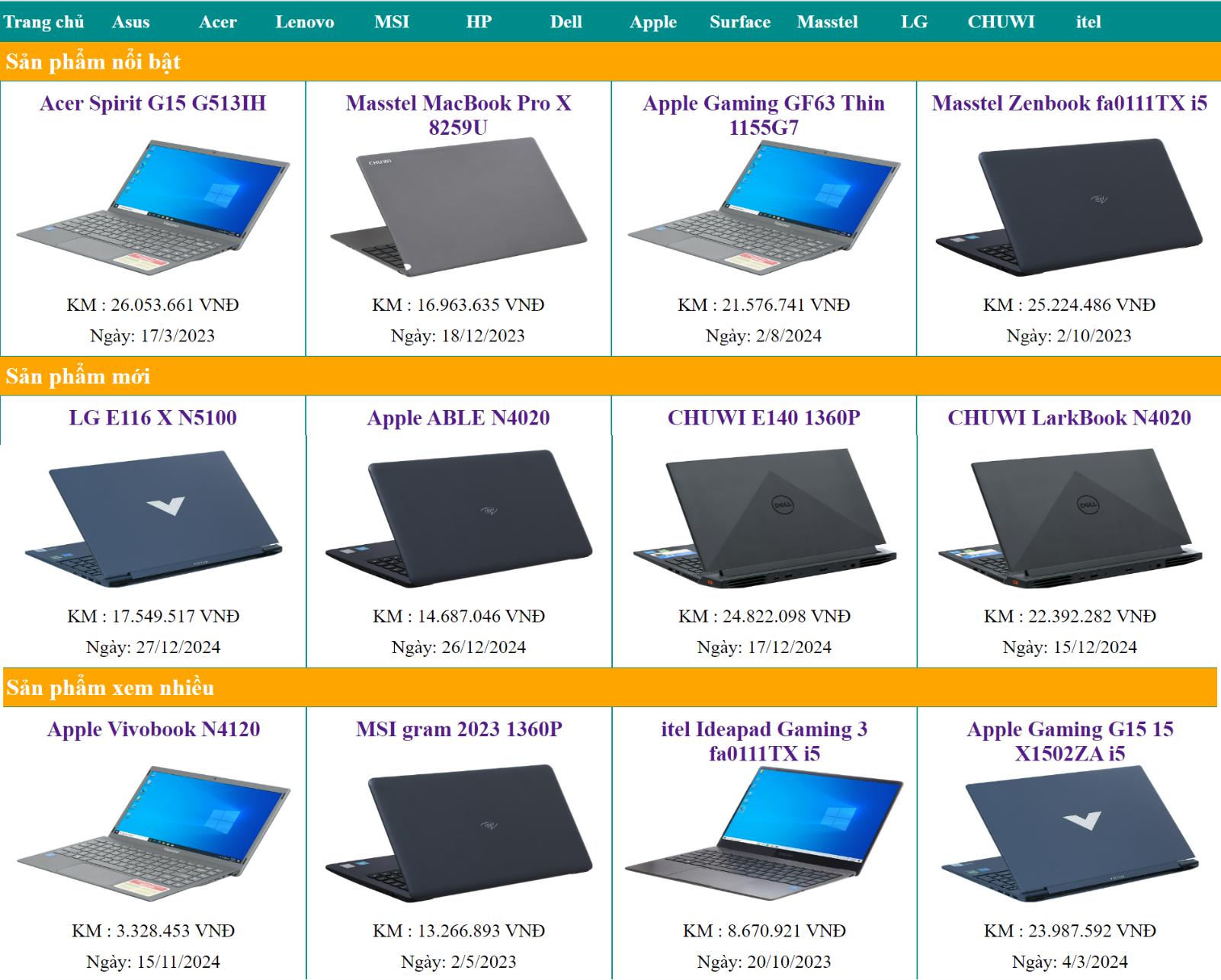
<script>

  document.querySelector("#data").innerHTML = hienlistsp();

</script>



## Thực tập hiện các loại data ra trang



Tạo file app.ts

### Tạo kiểu dữ liệu và sử dụng

type TLoai = {

    id: number;

    ten\_loai: string;

    thu\_tu: number;

    an\_hien:number;

}

type TSanPham = {

    id: number;

    ten\_sp: string;

    slug: string;

    gia:number;

    gia\_km:number;

    hinh:string;

    tinh\_chat: number;

    an\_hien:number;

    id\_loai:number;

    ngay:string;

    so\_luong:number;

    hot:number;

    luot\_xem:number;

}

type TThuocTinh = {

    id: number;

    id\_sp: number;

    ram: string;

    cpu: string;

    dia\_cung: string;

    mau\_sac: string;

    can\_nang:string;

}

### Khai báo kiến theo kiểu dữ liệu

const loai\_arr:TLoai[]  = [

    {id: 1, ten\_loai:"Asus", thu\_tu: 0, an\_hien: 1},

    { id: 2, ten\_loai:"Acer", thu\_tu: 1, an\_hien: 1},

    { id: 3, ten\_loai:"Lenovo", thu\_tu: 2, an\_hien: 1},

    { id: 4, ten\_loai:"MSI", thu\_tu: 3, an\_hien: 1},

    { id: 5, ten\_loai:"HP", thu\_tu: 4, an\_hien: 1},

    { id: 6, ten\_loai:"Dell", thu\_tu: 5, an\_hien: 1},

    { id: 7, ten\_loai:"Apple", thu\_tu: 6, an\_hien: 1},

    { id: 8, ten\_loai:"Surface", thu\_tu: 7, an\_hien: 1},

    { id:9, ten\_loai:"Masstel", thu\_tu:8 , an\_hien: 1},

    { id: 10, ten\_loai:"LG", thu\_tu:9, an\_hien: 1},

    { id: 11, ten\_loai:"CHUWI", thu\_tu: 10, an\_hien: 1},

    { id: 12, ten\_loai:"itel", thu\_tu:11, an\_hien: 1}

];

const san\_pham\_arr:TSanPham[] = [

{id:1, ten\_sp: "itel ROG Strix N4020" , slug: "itel-rog-strix-n4020-1", gia:29102367, gia\_km:24189374,id\_loai:12, ngay: "2024-05-28" ,so\_luong:9,hinh:"https://cdn.tgdd.vn/Products/Images/44/265523/itel-able-1s-n4020-71006300027-1-1.jpg" , hot:0,luot\_xem:895,an\_hien:1,tinh\_chat:0},

{id:2, ten\_sp: "itel Gaming G15 X 8259U" , slug: "itel-gaming-g15-x-8259u-2", gia:17755511, gia\_km:16593213,id\_loai:12, ngay: "2024-12-04" ,so\_luong:94,hinh:"https://cdn.tgdd.vn/Products/Images/44/265523/itel-able-1s-n4020-71006300027-1-1.jpg" , hot:0,luot\_xem:747,an\_hien:1,tinh\_chat:0},

{id:3, ten\_sp: "HP ABLE 1S N4020" , slug: "hp-able-1s-n4020-3", gia:24388442, gia\_km:22360233,id\_loai:5, ngay: "2023-06-09" ,so\_luong:66,hinh:"https://cdn.tgdd.vn/Products/Images/44/302226/lenovo-ideapad-gaming-3-15ihu6-i5-82k101f3vn-1.jpg" , hot:0,luot\_xem:366,an\_hien:1,tinh\_chat:0},

{id:4, ten\_sp: "Apple Pro 9 G15 G513IH" , slug: "apple-pro-9-g15-g513ih-4", gia:16248393, gia\_km:14324910,id\_loai:7, ngay: "2023-07-27" ,so\_luong:11,hinh:"https://cdn.tgdd.vn/Products/Images/44/281483/asus-vivobook-15-x1502za-i5-ej120w-1-1.jpg" , hot:0,luot\_xem:494,an\_hien:1,tinh\_chat:0},

{id:5, ten\_sp: "Surface ROG Strix AN515 45 R6EV" , slug: "surface-rog-strix-an515-45-r6ev-5", gia:29227760, gia\_km:27640850,id\_loai:8, ngay: "2024-04-10" ,so\_luong:0,hinh:"https://cdn.tgdd.vn/Products/Images/44/302533/hp-pavilion-15-eg2082tu-i5-7c0q5pa-1.jpg" , hot:0,luot\_xem:370,an\_hien:1,tinh\_chat:0},

{id:6, ten\_sp: "Acer Spirit G15 G513IH" , slug: "acer-spirit-g15-g513ih-6", gia:29133670, gia\_km:26053661,id\_loai:2, ngay: "2023-03-17" ,so\_luong:86,hinh:"https://cdn.tgdd.vn/Products/Images/44/302951/masstel-e140-n4120-glr-2.jpg" , hot:1,luot\_xem:90,an\_hien:1,tinh\_chat:0},

{id:7, ten\_sp: "Apple ABLE N4020" , slug: "apple-able-n4020-7", gia:18335813, gia\_km:14687046,id\_loai:7, ngay: "2024-12-26" ,so\_luong:96,hinh:"https://cdn.tgdd.vn/Products/Images/44/265523/itel-able-1s-n4020-71006300027-1-1.jpg" , hot:0,luot\_xem:651,an\_hien:1,tinh\_chat:2},

{id:8, ten\_sp: "MSI Vivobook 15IHU6" , slug: "msi-vivobook-15ihu6-8", gia:15545820, gia\_km:10785218,id\_loai:4, ngay: "2023-11-07" ,so\_luong:49,hinh:"https://cdn.tgdd.vn/Products/Images/44/264354/dell-gaming-g15-5511-i5-70266676-1-1.jpg" , hot:0,luot\_xem:184,an\_hien:1,tinh\_chat:2},

{id:9, ten\_sp: "LG Nitro 5 Gaming 1155G7" , slug: "lg-nitro-5-gaming-1155g7-9", gia:17903055, gia\_km:14756606,id\_loai:10, ngay: "2023-02-27" ,so\_luong:79,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:0,luot\_xem:690,an\_hien:1,tinh\_chat:2},

{id:10, ten\_sp: "Asus Gaming ROG Strix 15IHU6" , slug: "asus-gaming-rog-strix-15ihu6-10", gia:22691377, gia\_km:21100122,id\_loai:1, ngay: "2023-12-05" ,so\_luong:28,hinh:"https://cdn.tgdd.vn/Products/Images/44/302226/lenovo-ideapad-gaming-3-15ihu6-i5-82k101f3vn-1.jpg" , hot:0,luot\_xem:483,an\_hien:0,tinh\_chat:0},

{id:11, ten\_sp: "Masstel MacBook Pro X 8259U" , slug: "masstel-macbook-pro-x-8259u-11", gia:18837419, gia\_km:16963635,id\_loai:9, ngay: "2023-12-18" ,so\_luong:28,hinh:"https://cdn.tgdd.vn/Products/Images/44/270142/chuwi-corebook-x-i5-8259u-1-1.jpg" , hot:1,luot\_xem:408,an\_hien:1,tinh\_chat:0},

{id:12, ten\_sp: "Apple Gaming GF63 Thin 1155G7" , slug: "apple-gaming-gf63-thin-1155g7-12", gia:24144414, gia\_km:21576741,id\_loai:7, ngay: "2024-08-02" ,so\_luong:3,hinh:"https://cdn.tgdd.vn/Products/Images/44/302951/masstel-e140-n4120-glr-2.jpg" , hot:1,luot\_xem:62,an\_hien:1,tinh\_chat:0},

{id:13, ten\_sp: "Lenovo Ideapad Gaming 3 G15 G513IH" , slug: "lenovo-ideapad-gaming-3-g15-g513ih-13", gia:19142556, gia\_km:14358666,id\_loai:3, ngay: "2023-05-13" ,so\_luong:31,hinh:"https://cdn.tgdd.vn/Products/Images/44/270142/chuwi-corebook-x-i5-8259u-1-1.jpg" , hot:0,luot\_xem:462,an\_hien:0,tinh\_chat:2},

{id:14, ten\_sp: "Masstel Zenbook fa0111TX i5" , slug: "masstel-zenbook-fa0111tx-i5-14", gia:27088789, gia\_km:25224486,id\_loai:9, ngay: "2023-10-02" ,so\_luong:41,hinh:"https://cdn.tgdd.vn/Products/Images/44/265523/itel-able-1s-n4020-71006300027-1-1.jpg" , hot:1,luot\_xem:338,an\_hien:1,tinh\_chat:0},

{id:15, ten\_sp: "itel Ideapad Gaming 3 N4020" , slug: "itel-ideapad-gaming-3-n4020-15", gia:17792546, gia\_km:13477171,id\_loai:12, ngay: "2023-07-17" ,so\_luong:14,hinh:"https://cdn.tgdd.vn/Products/Images/44/302950/masstel-e116-n4020-glr-1.jpg" , hot:0,luot\_xem:58,an\_hien:0,tinh\_chat:2},

{id:16, ten\_sp: "Apple MacBook Pro G15 G513IH" , slug: "apple-macbook-pro-g15-g513ih-16", gia:14347282, gia\_km:11031555,id\_loai:7, ngay: "2024-09-25" ,so\_luong:63,hinh:"https://cdn.tgdd.vn/Products/Images/44/306795/lg-gram-2023-i7-17z90rgah78a5-1.jpg" , hot:0,luot\_xem:741,an\_hien:1,tinh\_chat:2},

{id:17, ten\_sp: "Lenovo Pavilion G15 G513IH" , slug: "lenovo-pavilion-g15-g513ih-17", gia:18729538, gia\_km:14572381,id\_loai:3, ngay: "2024-10-26" ,so\_luong:11,hinh:"https://cdn.tgdd.vn/Products/Images/44/264354/dell-gaming-g15-5511-i5-70266676-1-1.jpg" , hot:0,luot\_xem:851,an\_hien:0,tinh\_chat:2},

{id:18, ten\_sp: "Asus E116 15IHU6" , slug: "asus-e116-15ihu6-18", gia:16358337, gia\_km:14546724,id\_loai:1, ngay: "2024-08-23" ,so\_luong:22,hinh:"https://cdn.tgdd.vn/Products/Images/44/282828/apple-macbook-pro-13-inch-m2-2022-231122-041529.jpg" , hot:1,luot\_xem:64,an\_hien:0,tinh\_chat:0},

{id:19, ten\_sp: "Apple Ideapad Gaming 3 1155G7" , slug: "apple-ideapad-gaming-3-1155g7-19", gia:5209111, gia\_km:1038102,id\_loai:7, ngay: "2024-03-10" ,so\_luong:18,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:1,luot\_xem:761,an\_hien:1,tinh\_chat:2},

{id:20, ten\_sp: "Dell Ideapad Gaming 3 5511 11400H" , slug: "dell-ideapad-gaming-3-5511-11400h-20", gia:20768229, gia\_km:19031873,id\_loai:6, ngay: "2023-01-09" ,so\_luong:0,hinh:"https://cdn.tgdd.vn/Products/Images/44/306795/lg-gram-2023-i7-17z90rgah78a5-1.jpg" , hot:0,luot\_xem:685,an\_hien:1,tinh\_chat:0},

{id:21, ten\_sp: "Masstel ROG Strix 15 X1502ZA i5" , slug: "masstel-rog-strix-15-x1502za-i5-21", gia:26526674, gia\_km:25046256,id\_loai:9, ngay: "2024-05-21" ,so\_luong:75,hinh:"https://cdn.tgdd.vn/Products/Images/44/306795/lg-gram-2023-i7-17z90rgah78a5-1.jpg" , hot:0,luot\_xem:262,an\_hien:1,tinh\_chat:0},

{id:22, ten\_sp: "itel Ideapad Gaming 3 1155G7" , slug: "itel-ideapad-gaming-3-1155g7-22", gia:27266350, gia\_km:22516735,id\_loai:12, ngay: "2023-01-21" ,so\_luong:64,hinh:"https://cdn.tgdd.vn/Products/Images/44/282828/apple-macbook-pro-13-inch-m2-2022-231122-041529.jpg" , hot:0,luot\_xem:111,an\_hien:0,tinh\_chat:2},

{id:23, ten\_sp: "itel MacBook Pro 5511 11400H" , slug: "itel-macbook-pro-5511-11400h-23", gia:27670469, gia\_km:22691915,id\_loai:12, ngay: "2024-03-06" ,so\_luong:88,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:0,luot\_xem:10,an\_hien:1,tinh\_chat:2},

{id:24, ten\_sp: "Acer MacBook Pro 11SC" , slug: "acer-macbook-pro-11sc-24", gia:28057158, gia\_km:26830327,id\_loai:2, ngay: "2023-07-23" ,so\_luong:48,hinh:"https://cdn.tgdd.vn/Products/Images/44/264354/dell-gaming-g15-5511-i5-70266676-1-1.jpg" , hot:0,luot\_xem:105,an\_hien:1,tinh\_chat:0},

{id:25, ten\_sp: "Acer MacBook Pro 15IHU6" , slug: "acer-macbook-pro-15ihu6-25", gia:25677063, gia\_km:23915548,id\_loai:2, ngay: "2023-11-22" ,so\_luong:15,hinh:"https://cdn.tgdd.vn/Products/Images/44/281483/asus-vivobook-15-x1502za-i5-ej120w-1-1.jpg" , hot:1,luot\_xem:709,an\_hien:1,tinh\_chat:0},

{id:26, ten\_sp: "Dell Gaming ROG Strix 1155G7" , slug: "dell-gaming-rog-strix-1155g7-26", gia:19970146, gia\_km:17296132,id\_loai:6, ngay: "2024-01-10" ,so\_luong:87,hinh:"https://cdn.tgdd.vn/Products/Images/44/270141/chuwi-larkbook-x-n5100-2-1.jpg" , hot:1,luot\_xem:512,an\_hien:0,tinh\_chat:0},

{id:27, ten\_sp: "Masstel ROG Strix N4020" , slug: "masstel-rog-strix-n4020-27", gia:6051105, gia\_km:4932449,id\_loai:9, ngay: "2024-05-24" ,so\_luong:26,hinh:"https://cdn.tgdd.vn/Products/Images/44/264354/dell-gaming-g15-5511-i5-70266676-1-1.jpg" , hot:1,luot\_xem:904,an\_hien:1,tinh\_chat:0},

{id:28, ten\_sp: "CHUWI Gaming GF63 Thin 1S N4020" , slug: "chuwi-gaming-gf63-thin-1s-n4020-28", gia:10237516, gia\_km:8484302,id\_loai:11, ngay: "2023-11-11" ,so\_luong:25,hinh:"https://cdn.tgdd.vn/Products/Images/44/302486/hp-victus-15-fa0111tx-i5-7c0r4pa-glr-1.jpg" , hot:0,luot\_xem:439,an\_hien:1,tinh\_chat:0},

{id:29, ten\_sp: "CHUWI Gaming ROG Strix 1255U" , slug: "chuwi-gaming-rog-strix-1255u-29", gia:14284990, gia\_km:12706842,id\_loai:11, ngay: "2023-08-09" ,so\_luong:100,hinh:"https://cdn.tgdd.vn/Products/Images/44/306795/lg-gram-2023-i7-17z90rgah78a5-1.jpg" , hot:1,luot\_xem:179,an\_hien:0,tinh\_chat:0},

{id:30, ten\_sp: "CHUWI Gaming GF63 Thin AN515 45 R6EV" , slug: "chuwi-gaming-gf63-thin-an515-45-r6ev-30", gia:21230607, gia\_km:16639310,id\_loai:11, ngay: "2023-05-15" ,so\_luong:27,hinh:"https://cdn.tgdd.vn/Products/Images/44/270141/chuwi-larkbook-x-n5100-2-1.jpg" , hot:0,luot\_xem:21,an\_hien:0,tinh\_chat:2},

{id:31, ten\_sp: "Asus ROG Strix 15 X1502ZA i5" , slug: "asus-rog-strix-15-x1502za-i5-31", gia:15481547, gia\_km:12852164,id\_loai:1, ngay: "2024-07-27" ,so\_luong:1,hinh:"https://cdn.tgdd.vn/Products/Images/44/302226/lenovo-ideapad-gaming-3-15ihu6-i5-82k101f3vn-1.jpg" , hot:0,luot\_xem:226,an\_hien:1,tinh\_chat:0},

{id:32, ten\_sp: "Surface Gaming G15 G15 G513IH" , slug: "surface-gaming-g15-g15-g513ih-32", gia:8281595, gia\_km:3287392,id\_loai:8, ngay: "2023-02-04" ,so\_luong:14,hinh:"https://cdn.tgdd.vn/Products/Images/44/302533/hp-pavilion-15-eg2082tu-i5-7c0q5pa-1.jpg" , hot:1,luot\_xem:458,an\_hien:1,tinh\_chat:2},

{id:33, ten\_sp: "Masstel Gaming G15 G15 G513IH" , slug: "masstel-gaming-g15-g15-g513ih-33", gia:14208971, gia\_km:9239998,id\_loai:9, ngay: "2024-08-08" ,so\_luong:93,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:1,luot\_xem:617,an\_hien:1,tinh\_chat:2},

{id:34, ten\_sp: "Apple Gaming GF63 Thin AN515 45 R6EV" , slug: "apple-gaming-gf63-thin-an515-45-r6ev-34", gia:15121950, gia\_km:11332461,id\_loai:7, ngay: "2024-05-26" ,so\_luong:23,hinh:"https://cdn.tgdd.vn/Products/Images/44/302486/hp-victus-15-fa0111tx-i5-7c0r4pa-glr-1.jpg" , hot:0,luot\_xem:360,an\_hien:1,tinh\_chat:2},

{id:35, ten\_sp: "Surface gram 2023 1S N4020" , slug: "surface-gram-2023-1s-n4020-35", gia:8188725, gia\_km:6976457,id\_loai:8, ngay: "2023-05-18" ,so\_luong:65,hinh:"https://cdn.tgdd.vn/Products/Images/44/300000/itel-spirit-2-i5-71006300202-3.jpg" , hot:1,luot\_xem:473,an\_hien:1,tinh\_chat:0},

{id:36, ten\_sp: "Asus E116 14 OLED UX3402ZA" , slug: "asus-e116-14-oled-ux3402za-36", gia:7315656, gia\_km:2363246,id\_loai:1, ngay: "2023-05-17" ,so\_luong:13,hinh:"https://cdn.tgdd.vn/Products/Images/44/284258/asus-zenbook-14-oled-ux3402za-i5-km218w-a-1.jpg" , hot:0,luot\_xem:402,an\_hien:1,tinh\_chat:2},

{id:37, ten\_sp: "Dell Gaming GF63 Thin 15 X1502ZA i5" , slug: "dell-gaming-gf63-thin-15-x1502za-i5-37", gia:29518030, gia\_km:28321248,id\_loai:6, ngay: "2023-06-19" ,so\_luong:74,hinh:"https://cdn.tgdd.vn/Products/Images/44/282828/apple-macbook-pro-13-inch-m2-2022-231122-041529.jpg" , hot:1,luot\_xem:644,an\_hien:0,tinh\_chat:0},

{id:38, ten\_sp: "itel Vivobook G15 G513IH" , slug: "itel-vivobook-g15-g513ih-38", gia:25504080, gia\_km:24185754,id\_loai:12, ngay: "2024-04-15" ,so\_luong:91,hinh:"https://cdn.tgdd.vn/Products/Images/44/270142/chuwi-corebook-x-i5-8259u-1-1.jpg" , hot:0,luot\_xem:369,an\_hien:1,tinh\_chat:0},

{id:39, ten\_sp: "MSI ROG Strix 1S N4020" , slug: "msi-rog-strix-1s-n4020-39", gia:22976248, gia\_km:21424650,id\_loai:4, ngay: "2023-11-08" ,so\_luong:44,hinh:"https://cdn.tgdd.vn/Products/Images/44/265523/itel-able-1s-n4020-71006300027-1-1.jpg" , hot:0,luot\_xem:178,an\_hien:1,tinh\_chat:0},

{id:40, ten\_sp: "Dell E140 X 8259U" , slug: "dell-e140-x-8259u-40", gia:5634484, gia\_km:1423002,id\_loai:6, ngay: "2024-01-27" ,so\_luong:91,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:1,luot\_xem:167,an\_hien:1,tinh\_chat:2},

{id:41, ten\_sp: "Lenovo Nitro 5 Gaming 15 X1502ZA i5" , slug: "lenovo-nitro-5-gaming-15-x1502za-i5-41", gia:25594705, gia\_km:21024992,id\_loai:3, ngay: "2024-02-12" ,so\_luong:73,hinh:"https://cdn.tgdd.vn/Products/Images/44/302486/hp-victus-15-fa0111tx-i5-7c0r4pa-glr-1.jpg" , hot:1,luot\_xem:399,an\_hien:1,tinh\_chat:2},

{id:42, ten\_sp: "Acer ABLE N4120" , slug: "acer-able-n4120-42", gia:18860032, gia\_km:16551857,id\_loai:2, ngay: "2024-09-23" ,so\_luong:23,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:0,luot\_xem:871,an\_hien:1,tinh\_chat:0},

{id:43, ten\_sp: "Masstel Ideapad Gaming 3 G15 G513IH" , slug: "masstel-ideapad-gaming-3-g15-g513ih-43", gia:15056603, gia\_km:10245470,id\_loai:9, ngay: "2023-07-20" ,so\_luong:78,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:0,luot\_xem:441,an\_hien:1,tinh\_chat:2},

{id:44, ten\_sp: "Surface MacBook Pro X 8259U" , slug: "surface-macbook-pro-x-8259u-44", gia:19428065, gia\_km:16890995,id\_loai:8, ngay: "2023-11-12" ,so\_luong:77,hinh:"https://cdn.tgdd.vn/Products/Images/44/282828/apple-macbook-pro-13-inch-m2-2022-231122-041529.jpg" , hot:1,luot\_xem:285,an\_hien:1,tinh\_chat:0},

{id:45, ten\_sp: "Apple E140 N4020" , slug: "apple-e140-n4020-45", gia:9164000, gia\_km:7045515,id\_loai:7, ngay: "2023-07-28" ,so\_luong:68,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:0,luot\_xem:336,an\_hien:1,tinh\_chat:0},

{id:46, ten\_sp: "Masstel Gaming G15 15 eg2082TU" , slug: "masstel-gaming-g15-15-eg2082tu-46", gia:14685307, gia\_km:12504683,id\_loai:9, ngay: "2023-10-20" ,so\_luong:0,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:0,luot\_xem:723,an\_hien:1,tinh\_chat:0},

{id:47, ten\_sp: "CHUWI Gaming G15 1155G7" , slug: "chuwi-gaming-g15-1155g7-47", gia:24978052, gia\_km:20381216,id\_loai:11, ngay: "2024-07-25" ,so\_luong:33,hinh:"https://cdn.tgdd.vn/Products/Images/44/302486/hp-victus-15-fa0111tx-i5-7c0r4pa-glr-1.jpg" , hot:1,luot\_xem:153,an\_hien:1,tinh\_chat:2},

{id:48, ten\_sp: "HP LarkBook G15 G513IH" , slug: "hp-larkbook-g15-g513ih-48", gia:12681861, gia\_km:9704915,id\_loai:5, ngay: "2024-09-13" ,so\_luong:22,hinh:"https://cdn.tgdd.vn/Products/Images/44/302486/hp-victus-15-fa0111tx-i5-7c0r4pa-glr-1.jpg" , hot:1,luot\_xem:200,an\_hien:0,tinh\_chat:0},

{id:49, ten\_sp: "MSI CoreBook G15 G513IH" , slug: "msi-corebook-g15-g513ih-49", gia:17174953, gia\_km:13700778,id\_loai:4, ngay: "2023-02-26" ,so\_luong:67,hinh:"https://cdn.tgdd.vn/Products/Images/44/302533/hp-pavilion-15-eg2082tu-i5-7c0q5pa-1.jpg" , hot:0,luot\_xem:68,an\_hien:1,tinh\_chat:2},

{id:50, ten\_sp: "Asus Zenbook 1155G7" , slug: "asus-zenbook-1155g7-50", gia:7237603, gia\_km:4443040,id\_loai:1, ngay: "2024-07-02" ,so\_luong:20,hinh:"https://cdn.tgdd.vn/Products/Images/44/270141/chuwi-larkbook-x-n5100-2-1.jpg" , hot:1,luot\_xem:65,an\_hien:1,tinh\_chat:0},

{id:51, ten\_sp: "Apple Spirit AN515 45 R6EV" , slug: "apple-spirit-an515-45-r6ev-51", gia:17835644, gia\_km:14558990,id\_loai:7, ngay: "2023-07-17" ,so\_luong:19,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:0,luot\_xem:232,an\_hien:0,tinh\_chat:2},

{id:52, ten\_sp: "Asus Nitro 5 Gaming G15 G513IH" , slug: "asus-nitro-5-gaming-g15-g513ih-52", gia:25299224, gia\_km:23511659,id\_loai:1, ngay: "2023-05-15" ,so\_luong:22,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:0,luot\_xem:223,an\_hien:1,tinh\_chat:0},

{id:53, ten\_sp: "LG E116 X N5100" , slug: "lg-e116-x-n5100-53", gia:21672653, gia\_km:17549517,id\_loai:10, ngay: "2024-12-27" ,so\_luong:84,hinh:"https://cdn.tgdd.vn/Products/Images/44/302486/hp-victus-15-fa0111tx-i5-7c0r4pa-glr-1.jpg" , hot:1,luot\_xem:667,an\_hien:1,tinh\_chat:2},

{id:54, ten\_sp: "Apple Spirit N4120" , slug: "apple-spirit-n4120-54", gia:24112089, gia\_km:20561773,id\_loai:7, ngay: "2024-09-14" ,so\_luong:31,hinh:"https://cdn.tgdd.vn/Products/Images/44/306795/lg-gram-2023-i7-17z90rgah78a5-1.jpg" , hot:0,luot\_xem:675,an\_hien:0,tinh\_chat:2},

{id:55, ten\_sp: "Surface E140 11SC" , slug: "surface-e140-11sc-55", gia:9553446, gia\_km:6826140,id\_loai:8, ngay: "2023-04-17" ,so\_luong:12,hinh:"https://cdn.tgdd.vn/Products/Images/44/302226/lenovo-ideapad-gaming-3-15ihu6-i5-82k101f3vn-1.jpg" , hot:1,luot\_xem:948,an\_hien:1,tinh\_chat:0},

{id:56, ten\_sp: "Apple gram 2023 Gaming VICTUS" , slug: "apple-gram-2023-gaming-victus-56", gia:17414390, gia\_km:14270947,id\_loai:7, ngay: "2024-09-22" ,so\_luong:62,hinh:"https://cdn.tgdd.vn/Products/Images/44/281483/asus-vivobook-15-x1502za-i5-ej120w-1-1.jpg" , hot:1,luot\_xem:845,an\_hien:1,tinh\_chat:2},

{id:57, ten\_sp: "HP Pavilion 15IHU6" , slug: "hp-pavilion-15ihu6-57", gia:16454635, gia\_km:14061795,id\_loai:5, ngay: "2023-04-05" ,so\_luong:88,hinh:"https://cdn.tgdd.vn/Products/Images/44/270142/chuwi-corebook-x-i5-8259u-1-1.jpg" , hot:0,luot\_xem:348,an\_hien:1,tinh\_chat:0},

{id:58, ten\_sp: "HP Nitro 5 Gaming 1255U" , slug: "hp-nitro-5-gaming-1255u-58", gia:7247469, gia\_km:5122829,id\_loai:5, ngay: "2024-10-04" ,so\_luong:88,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:1,luot\_xem:307,an\_hien:0,tinh\_chat:0},

{id:59, ten\_sp: "LG E140 G15 G513IH" , slug: "lg-e140-g15-g513ih-59", gia:25269508, gia\_km:22502511,id\_loai:10, ngay: "2024-11-16" ,so\_luong:59,hinh:"https://cdn.tgdd.vn/Products/Images/44/302226/lenovo-ideapad-gaming-3-15ihu6-i5-82k101f3vn-1.jpg" , hot:0,luot\_xem:367,an\_hien:1,tinh\_chat:0},

{id:60, ten\_sp: "CHUWI LarkBook M2 2022" , slug: "chuwi-larkbook-m2-2022-60", gia:10164695, gia\_km:6859502,id\_loai:11, ngay: "2024-10-20" ,so\_luong:68,hinh:"https://cdn.tgdd.vn/Products/Images/44/270141/chuwi-larkbook-x-n5100-2-1.jpg" , hot:0,luot\_xem:355,an\_hien:1,tinh\_chat:2},

{id:61, ten\_sp: "HP Vivobook 1255U" , slug: "hp-vivobook-1255u-61", gia:11480157, gia\_km:8437157,id\_loai:5, ngay: "2024-07-17" ,so\_luong:17,hinh:"https://cdn.tgdd.vn/Products/Images/44/284258/asus-zenbook-14-oled-ux3402za-i5-km218w-a-1.jpg" , hot:0,luot\_xem:640,an\_hien:1,tinh\_chat:2},

{id:62, ten\_sp: "Surface Gaming GF63 Thin N4120" , slug: "surface-gaming-gf63-thin-n4120-62", gia:17334403, gia\_km:15875419,id\_loai:8, ngay: "2023-12-12" ,so\_luong:87,hinh:"https://cdn.tgdd.vn/Products/Images/44/264354/dell-gaming-g15-5511-i5-70266676-1-1.jpg" , hot:1,luot\_xem:141,an\_hien:0,tinh\_chat:0},

{id:63, ten\_sp: "CHUWI E116 15 X1502ZA i5" , slug: "chuwi-e116-15-x1502za-i5-63", gia:5894380, gia\_km:1170402,id\_loai:11, ngay: "2023-12-25" ,so\_luong:19,hinh:"https://cdn.tgdd.vn/Products/Images/44/270141/chuwi-larkbook-x-n5100-2-1.jpg" , hot:0,luot\_xem:194,an\_hien:0,tinh\_chat:2},

{id:64, ten\_sp: "itel Vivobook Gaming VICTUS" , slug: "itel-vivobook-gaming-victus-64", gia:10423093, gia\_km:6488719,id\_loai:12, ngay: "2024-09-15" ,so\_luong:50,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:0,luot\_xem:955,an\_hien:1,tinh\_chat:2},

{id:65, ten\_sp: "itel Pro 9 1155G7" , slug: "itel-pro-9-1155g7-65", gia:10920288, gia\_km:6365186,id\_loai:12, ngay: "2023-09-07" ,so\_luong:75,hinh:"https://cdn.tgdd.vn/Products/Images/44/300000/itel-spirit-2-i5-71006300202-3.jpg" , hot:0,luot\_xem:97,an\_hien:1,tinh\_chat:2},

{id:66, ten\_sp: "CHUWI Vivobook Gaming VICTUS" , slug: "chuwi-vivobook-gaming-victus-66", gia:12586792, gia\_km:11157390,id\_loai:11, ngay: "2023-02-13" ,so\_luong:39,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:0,luot\_xem:329,an\_hien:1,tinh\_chat:0},

{id:67, ten\_sp: "Surface Spirit 15 X1502ZA i5" , slug: "surface-spirit-15-x1502za-i5-67", gia:6204824, gia\_km:2161039,id\_loai:8, ngay: "2024-04-03" ,so\_luong:57,hinh:"https://cdn.tgdd.vn/Products/Images/44/306795/lg-gram-2023-i7-17z90rgah78a5-1.jpg" , hot:1,luot\_xem:633,an\_hien:1,tinh\_chat:2},

{id:68, ten\_sp: "Lenovo ROG Strix G15 G513IH" , slug: "lenovo-rog-strix-g15-g513ih-68", gia:12084732, gia\_km:10131738,id\_loai:3, ngay: "2023-03-08" ,so\_luong:71,hinh:"https://cdn.tgdd.vn/Products/Images/44/302951/masstel-e140-n4120-glr-2.jpg" , hot:1,luot\_xem:564,an\_hien:1,tinh\_chat:0},

{id:69, ten\_sp: "Apple LarkBook Gaming VICTUS" , slug: "apple-larkbook-gaming-victus-69", gia:12973080, gia\_km:10230991,id\_loai:7, ngay: "2023-01-04" ,so\_luong:63,hinh:"https://cdn.tgdd.vn/Products/Images/44/284258/asus-zenbook-14-oled-ux3402za-i5-km218w-a-1.jpg" , hot:0,luot\_xem:592,an\_hien:0,tinh\_chat:0},

{id:70, ten\_sp: "itel gram 2023 11SC" , slug: "itel-gram-2023-11sc-70", gia:26419248, gia\_km:25205532,id\_loai:12, ngay: "2023-11-12" ,so\_luong:92,hinh:"https://cdn.tgdd.vn/Products/Images/44/265523/itel-able-1s-n4020-71006300027-1-1.jpg" , hot:1,luot\_xem:61,an\_hien:1,tinh\_chat:0},

{id:71, ten\_sp: "MSI Spirit X N5100" , slug: "msi-spirit-x-n5100-71", gia:25503864, gia\_km:21684785,id\_loai:4, ngay: "2023-11-28" ,so\_luong:9,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:0,luot\_xem:861,an\_hien:0,tinh\_chat:2},

{id:72, ten\_sp: "Lenovo gram 2023 1155G7" , slug: "lenovo-gram-2023-1155g7-72", gia:7404283, gia\_km:4727539,id\_loai:3, ngay: "2024-06-21" ,so\_luong:90,hinh:"https://cdn.tgdd.vn/Products/Images/44/302533/hp-pavilion-15-eg2082tu-i5-7c0q5pa-1.jpg" , hot:0,luot\_xem:753,an\_hien:1,tinh\_chat:0},

{id:73, ten\_sp: "Lenovo LarkBook 1155G7" , slug: "lenovo-larkbook-1155g7-73", gia:24160918, gia\_km:21875526,id\_loai:3, ngay: "2023-10-08" ,so\_luong:85,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:0,luot\_xem:720,an\_hien:1,tinh\_chat:0},

{id:74, ten\_sp: "itel gram 2023 1S N4020" , slug: "itel-gram-2023-1s-n4020-74", gia:23257194, gia\_km:21232984,id\_loai:12, ngay: "2023-12-26" ,so\_luong:58,hinh:"https://cdn.tgdd.vn/Products/Images/44/302533/hp-pavilion-15-eg2082tu-i5-7c0q5pa-1.jpg" , hot:0,luot\_xem:214,an\_hien:1,tinh\_chat:0},

{id:75, ten\_sp: "Surface Gaming G15 AN515 45 R6EV" , slug: "surface-gaming-g15-an515-45-r6ev-75", gia:10434378, gia\_km:9033006,id\_loai:8, ngay: "2023-09-15" ,so\_luong:75,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:0,luot\_xem:305,an\_hien:1,tinh\_chat:0},

{id:76, ten\_sp: "Surface LarkBook 1255U" , slug: "surface-larkbook-1255u-76", gia:16622884, gia\_km:13852487,id\_loai:8, ngay: "2024-08-06" ,so\_luong:58,hinh:"https://cdn.tgdd.vn/Products/Images/44/302533/hp-pavilion-15-eg2082tu-i5-7c0q5pa-1.jpg" , hot:0,luot\_xem:25,an\_hien:1,tinh\_chat:0},

{id:77, ten\_sp: "MSI ROG Strix 15 eg2082TU" , slug: "msi-rog-strix-15-eg2082tu-77", gia:7041386, gia\_km:2820994,id\_loai:4, ngay: "2023-04-14" ,so\_luong:21,hinh:"https://cdn.tgdd.vn/Products/Images/44/302533/hp-pavilion-15-eg2082tu-i5-7c0q5pa-1.jpg" , hot:0,luot\_xem:644,an\_hien:1,tinh\_chat:2},

{id:78, ten\_sp: "Acer Gaming ROG Strix N4020" , slug: "acer-gaming-rog-strix-n4020-78", gia:19683282, gia\_km:15123657,id\_loai:2, ngay: "2023-01-11" ,so\_luong:56,hinh:"https://cdn.tgdd.vn/Products/Images/44/282828/apple-macbook-pro-13-inch-m2-2022-231122-041529.jpg" , hot:0,luot\_xem:196,an\_hien:1,tinh\_chat:2},

{id:79, ten\_sp: "Lenovo Ideapad Gaming 3 1155G7" , slug: "lenovo-ideapad-gaming-3-1155g7-79", gia:26969756, gia\_km:25383221,id\_loai:3, ngay: "2024-11-26" ,so\_luong:97,hinh:"https://cdn.tgdd.vn/Products/Images/44/270142/chuwi-corebook-x-i5-8259u-1-1.jpg" , hot:0,luot\_xem:784,an\_hien:1,tinh\_chat:0},

{id:80, ten\_sp: "itel CoreBook fa0111TX i5" , slug: "itel-corebook-fa0111tx-i5-80", gia:29415430, gia\_km:26292790,id\_loai:12, ngay: "2023-05-08" ,so\_luong:13,hinh:"https://cdn.tgdd.vn/Products/Images/44/270142/chuwi-corebook-x-i5-8259u-1-1.jpg" , hot:1,luot\_xem:732,an\_hien:1,tinh\_chat:0},

{id:81, ten\_sp: "LG Vivobook 15 X1502ZA i5" , slug: "lg-vivobook-15-x1502za-i5-81", gia:17862685, gia\_km:14045375,id\_loai:10, ngay: "2023-03-22" ,so\_luong:10,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:1,luot\_xem:571,an\_hien:1,tinh\_chat:2},

{id:82, ten\_sp: "Acer gram 2023 1360P" , slug: "acer-gram-2023-1360p-82", gia:9995252, gia\_km:5019747,id\_loai:2, ngay: "2023-09-26" ,so\_luong:0,hinh:"https://cdn.tgdd.vn/Products/Images/44/284258/asus-zenbook-14-oled-ux3402za-i5-km218w-a-1.jpg" , hot:0,luot\_xem:661,an\_hien:1,tinh\_chat:2},

{id:83, ten\_sp: "MSI Vivobook 1155G7" , slug: "msi-vivobook-1155g7-83", gia:27350901, gia\_km:25004273,id\_loai:4, ngay: "2023-09-22" ,so\_luong:87,hinh:"https://cdn.tgdd.vn/Products/Images/44/284258/asus-zenbook-14-oled-ux3402za-i5-km218w-a-1.jpg" , hot:0,luot\_xem:636,an\_hien:0,tinh\_chat:0},

{id:84, ten\_sp: "Surface E116 1255U" , slug: "surface-e116-1255u-84", gia:7293995, gia\_km:3333841,id\_loai:8, ngay: "2024-05-27" ,so\_luong:73,hinh:"https://cdn.tgdd.vn/Products/Images/44/282828/apple-macbook-pro-13-inch-m2-2022-231122-041529.jpg" , hot:0,luot\_xem:736,an\_hien:0,tinh\_chat:2},

{id:85, ten\_sp: "LG LarkBook AN515 45 R6EV" , slug: "lg-larkbook-an515-45-r6ev-85", gia:22030276, gia\_km:20832702,id\_loai:10, ngay: "2023-06-22" ,so\_luong:31,hinh:"https://cdn.tgdd.vn/Products/Images/44/284258/asus-zenbook-14-oled-ux3402za-i5-km218w-a-1.jpg" , hot:1,luot\_xem:515,an\_hien:1,tinh\_chat:0},

{id:86, ten\_sp: "Dell Vivobook 1360P" , slug: "dell-vivobook-1360p-86", gia:25462947, gia\_km:23792720,id\_loai:6, ngay: "2023-11-06" ,so\_luong:8,hinh:"https://cdn.tgdd.vn/Products/Images/44/300000/itel-spirit-2-i5-71006300202-3.jpg" , hot:0,luot\_xem:758,an\_hien:1,tinh\_chat:0},

{id:87, ten\_sp: "CHUWI Gaming G15 N4120" , slug: "chuwi-gaming-g15-n4120-87", gia:29599893, gia\_km:28448824,id\_loai:11, ngay: "2023-10-15" ,so\_luong:47,hinh:"https://cdn.tgdd.vn/Products/Images/44/302226/lenovo-ideapad-gaming-3-15ihu6-i5-82k101f3vn-1.jpg" , hot:1,luot\_xem:738,an\_hien:1,tinh\_chat:0},

{id:88, ten\_sp: "itel gram 2023 fa0111TX i5" , slug: "itel-gram-2023-fa0111tx-i5-88", gia:21301262, gia\_km:19995501,id\_loai:12, ngay: "2024-05-12" ,so\_luong:46,hinh:"https://cdn.tgdd.vn/Products/Images/44/302951/masstel-e140-n4120-glr-2.jpg" , hot:1,luot\_xem:255,an\_hien:0,tinh\_chat:0},

{id:89, ten\_sp: "Apple ABLE 1360P" , slug: "apple-able-1360p-89", gia:7284846, gia\_km:5172975,id\_loai:7, ngay: "2023-06-15" ,so\_luong:26,hinh:"https://cdn.tgdd.vn/Products/Images/44/302533/hp-pavilion-15-eg2082tu-i5-7c0q5pa-1.jpg" , hot:1,luot\_xem:133,an\_hien:1,tinh\_chat:0},

{id:90, ten\_sp: "MSI Nitro 5 Gaming 15 eg2082TU" , slug: "msi-nitro-5-gaming-15-eg2082tu-90", gia:25810868, gia\_km:23508601,id\_loai:4, ngay: "2024-01-11" ,so\_luong:1,hinh:"https://cdn.tgdd.vn/Products/Images/44/306795/lg-gram-2023-i7-17z90rgah78a5-1.jpg" , hot:0,luot\_xem:961,an\_hien:1,tinh\_chat:0},

{id:91, ten\_sp: "CHUWI E140 1360P" , slug: "chuwi-e140-1360p-91", gia:27126567, gia\_km:24822098,id\_loai:11, ngay: "2024-12-17" ,so\_luong:10,hinh:"https://cdn.tgdd.vn/Products/Images/44/264354/dell-gaming-g15-5511-i5-70266676-1-1.jpg" , hot:0,luot\_xem:210,an\_hien:1,tinh\_chat:0},

{id:92, ten\_sp: "Surface Gaming G15 11SC" , slug: "surface-gaming-g15-11sc-92", gia:19343882, gia\_km:15940354,id\_loai:8, ngay: "2023-02-28" ,so\_luong:61,hinh:"https://cdn.tgdd.vn/Products/Images/44/302533/hp-pavilion-15-eg2082tu-i5-7c0q5pa-1.jpg" , hot:1,luot\_xem:591,an\_hien:1,tinh\_chat:2},

{id:93, ten\_sp: "LG Vivobook 1155G7" , slug: "lg-vivobook-1155g7-93", gia:24249481, gia\_km:23139368,id\_loai:10, ngay: "2023-01-22" ,so\_luong:93,hinh:"https://cdn.tgdd.vn/Products/Images/44/302486/hp-victus-15-fa0111tx-i5-7c0r4pa-glr-1.jpg" , hot:0,luot\_xem:741,an\_hien:1,tinh\_chat:0},

{id:94, ten\_sp: "MSI MacBook Pro 15 eg2082TU" , slug: "msi-macbook-pro-15-eg2082tu-94", gia:5743929, gia\_km:851358,id\_loai:4, ngay: "2024-01-10" ,so\_luong:56,hinh:"https://cdn.tgdd.vn/Products/Images/44/302951/masstel-e140-n4120-glr-2.jpg" , hot:1,luot\_xem:424,an\_hien:1,tinh\_chat:2},

{id:95, ten\_sp: "itel Pro 9 N4020" , slug: "itel-pro-9-n4020-95", gia:24890107, gia\_km:23500118,id\_loai:12, ngay: "2024-04-06" ,so\_luong:50,hinh:"https://cdn.tgdd.vn/Products/Images/44/270141/chuwi-larkbook-x-n5100-2-1.jpg" , hot:0,luot\_xem:696,an\_hien:1,tinh\_chat:0},

{id:96, ten\_sp: "Masstel Nitro 5 Gaming 1360P" , slug: "masstel-nitro-5-gaming-1360p-96", gia:29451577, gia\_km:27770326,id\_loai:9, ngay: "2023-10-05" ,so\_luong:90,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:0,luot\_xem:455,an\_hien:1,tinh\_chat:0},

{id:97, ten\_sp: "Acer Spirit 14 OLED UX3402ZA" , slug: "acer-spirit-14-oled-ux3402za-97", gia:26589604, gia\_km:23116997,id\_loai:2, ngay: "2024-02-09" ,so\_luong:69,hinh:"https://cdn.tgdd.vn/Products/Images/44/302950/masstel-e116-n4020-glr-1.jpg" , hot:1,luot\_xem:52,an\_hien:1,tinh\_chat:2},

{id:98, ten\_sp: "CHUWI E140 X 8259U" , slug: "chuwi-e140-x-8259u-98", gia:20847461, gia\_km:18269862,id\_loai:11, ngay: "2023-03-19" ,so\_luong:86,hinh:"https://cdn.tgdd.vn/Products/Images/44/302950/masstel-e116-n4020-glr-1.jpg" , hot:0,luot\_xem:618,an\_hien:1,tinh\_chat:0},

{id:99, ten\_sp: "Asus Pro 9 1360P" , slug: "asus-pro-9-1360p-99", gia:18081490, gia\_km:13884163,id\_loai:1, ngay: "2024-04-05" ,so\_luong:3,hinh:"https://cdn.tgdd.vn/Products/Images/44/270141/chuwi-larkbook-x-n5100-2-1.jpg" , hot:0,luot\_xem:639,an\_hien:1,tinh\_chat:2},

{id:100, ten\_sp: "itel Zenbook 15 eg2082TU" , slug: "itel-zenbook-15-eg2082tu-100", gia:16179548, gia\_km:11826221,id\_loai:12, ngay: "2024-10-03" ,so\_luong:13,hinh:"https://cdn.tgdd.vn/Products/Images/44/264354/dell-gaming-g15-5511-i5-70266676-1-1.jpg" , hot:0,luot\_xem:603,an\_hien:0,tinh\_chat:2},

{id:101, ten\_sp: "Lenovo Gaming GF63 Thin 1155G7" , slug: "lenovo-gaming-gf63-thin-1155g7-101", gia:21126986, gia\_km:19198568,id\_loai:3, ngay: "2024-10-10" ,so\_luong:17,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:1,luot\_xem:847,an\_hien:1,tinh\_chat:0},

{id:102, ten\_sp: "MSI MacBook Pro 15IHU6" , slug: "msi-macbook-pro-15ihu6-102", gia:17923747, gia\_km:16826158,id\_loai:4, ngay: "2023-02-06" ,so\_luong:13,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:0,luot\_xem:418,an\_hien:1,tinh\_chat:0},

{id:103, ten\_sp: "HP Vivobook N4120" , slug: "hp-vivobook-n4120-103", gia:17828213, gia\_km:16680329,id\_loai:5, ngay: "2023-12-08" ,so\_luong:69,hinh:"https://cdn.tgdd.vn/Products/Images/44/300000/itel-spirit-2-i5-71006300202-3.jpg" , hot:0,luot\_xem:624,an\_hien:1,tinh\_chat:0},

{id:104, ten\_sp: "Dell Pro 9 fa0111TX i5" , slug: "dell-pro-9-fa0111tx-i5-104", gia:22344038, gia\_km:19117994,id\_loai:6, ngay: "2023-04-16" ,so\_luong:62,hinh:"https://cdn.tgdd.vn/Products/Images/44/282828/apple-macbook-pro-13-inch-m2-2022-231122-041529.jpg" , hot:0,luot\_xem:710,an\_hien:1,tinh\_chat:2},

{id:105, ten\_sp: "Acer E140 1255U" , slug: "acer-e140-1255u-105", gia:5202033, gia\_km:3638705,id\_loai:2, ngay: "2024-05-13" ,so\_luong:51,hinh:"https://cdn.tgdd.vn/Products/Images/44/302950/masstel-e116-n4020-glr-1.jpg" , hot:1,luot\_xem:593,an\_hien:1,tinh\_chat:1},

{id:106, ten\_sp: "LG Gaming ROG Strix 11SC" , slug: "lg-gaming-rog-strix-11sc-106", gia:16599490, gia\_km:14421370,id\_loai:10, ngay: "2023-01-08" ,so\_luong:29,hinh:"https://cdn.tgdd.vn/Products/Images/44/270142/chuwi-corebook-x-i5-8259u-1-1.jpg" , hot:1,luot\_xem:946,an\_hien:1,tinh\_chat:0},

{id:107, ten\_sp: "Lenovo Vivobook 5511 11400H" , slug: "lenovo-vivobook-5511-11400h-107", gia:26976858, gia\_km:25495561,id\_loai:3, ngay: "2023-08-14" ,so\_luong:6,hinh:"https://cdn.tgdd.vn/Products/Images/44/300000/itel-spirit-2-i5-71006300202-3.jpg" , hot:1,luot\_xem:399,an\_hien:1,tinh\_chat:0},

{id:108, ten\_sp: "Surface Gaming ROG Strix X N5100" , slug: "surface-gaming-rog-strix-x-n5100-108", gia:5482803, gia\_km:3544717,id\_loai:8, ngay: "2024-07-10" ,so\_luong:23,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:1,luot\_xem:145,an\_hien:1,tinh\_chat:1},

{id:109, ten\_sp: "Asus Pro 9 AN515 45 R6EV" , slug: "asus-pro-9-an515-45-r6ev-109", gia:14824503, gia\_km:12251495,id\_loai:1, ngay: "2023-06-05" ,so\_luong:42,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:0,luot\_xem:52,an\_hien:1,tinh\_chat:0},

{id:110, ten\_sp: "Surface E140 G15 G513IH" , slug: "surface-e140-g15-g513ih-110", gia:9457382, gia\_km:4578073,id\_loai:8, ngay: "2023-10-23" ,so\_luong:41,hinh:"https://cdn.tgdd.vn/Products/Images/44/265523/itel-able-1s-n4020-71006300027-1-1.jpg" , hot:1,luot\_xem:314,an\_hien:1,tinh\_chat:2},

{id:111, ten\_sp: "Asus Vivobook 5511 11400H" , slug: "asus-vivobook-5511-11400h-111", gia:5207678, gia\_km:3518900,id\_loai:1, ngay: "2023-02-01" ,so\_luong:52,hinh:"https://cdn.tgdd.vn/Products/Images/44/270142/chuwi-corebook-x-i5-8259u-1-1.jpg" , hot:0,luot\_xem:600,an\_hien:1,tinh\_chat:1},

{id:112, ten\_sp: "CHUWI Gaming G15 N4020" , slug: "chuwi-gaming-g15-n4020-112", gia:19095777, gia\_km:14248869,id\_loai:11, ngay: "2023-03-02" ,so\_luong:9,hinh:"https://cdn.tgdd.vn/Products/Images/44/281483/asus-vivobook-15-x1502za-i5-ej120w-1-1.jpg" , hot:0,luot\_xem:621,an\_hien:1,tinh\_chat:2},

{id:113, ten\_sp: "Asus Vivobook 15 X1502ZA i5" , slug: "asus-vivobook-15-x1502za-i5-113", gia:10851291, gia\_km:7209019,id\_loai:1, ngay: "2023-04-25" ,so\_luong:66,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:0,luot\_xem:70,an\_hien:1,tinh\_chat:2},

{id:114, ten\_sp: "LG Gaming ROG Strix 1255U" , slug: "lg-gaming-rog-strix-1255u-114", gia:20266666, gia\_km:18119576,id\_loai:10, ngay: "2023-11-14" ,so\_luong:13,hinh:"https://cdn.tgdd.vn/Products/Images/44/284258/asus-zenbook-14-oled-ux3402za-i5-km218w-a-1.jpg" , hot:0,luot\_xem:380,an\_hien:1,tinh\_chat:0},

{id:115, ten\_sp: "Dell Ideapad Gaming 3 N4020" , slug: "dell-ideapad-gaming-3-n4020-115", gia:25290310, gia\_km:23787622,id\_loai:6, ngay: "2024-04-05" ,so\_luong:37,hinh:"https://cdn.tgdd.vn/Products/Images/44/302951/masstel-e140-n4120-glr-2.jpg" , hot:0,luot\_xem:559,an\_hien:1,tinh\_chat:0},

{id:116, ten\_sp: "Dell Spirit 14 OLED UX3402ZA" , slug: "dell-spirit-14-oled-ux3402za-116", gia:23778454, gia\_km:20682416,id\_loai:6, ngay: "2023-06-04" ,so\_luong:26,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:0,luot\_xem:315,an\_hien:0,tinh\_chat:2},

{id:117, ten\_sp: "Dell Ideapad Gaming 3 AN515 45 R6EV" , slug: "dell-ideapad-gaming-3-an515-45-r6ev-117", gia:17106910, gia\_km:14719720,id\_loai:6, ngay: "2024-07-16" ,so\_luong:60,hinh:"https://cdn.tgdd.vn/Products/Images/44/300000/itel-spirit-2-i5-71006300202-3.jpg" , hot:0,luot\_xem:648,an\_hien:1,tinh\_chat:0},

{id:118, ten\_sp: "itel Zenbook 1360P" , slug: "itel-zenbook-1360p-118", gia:12540836, gia\_km:9262507,id\_loai:12, ngay: "2024-07-01" ,so\_luong:69,hinh:"https://cdn.tgdd.vn/Products/Images/44/284258/asus-zenbook-14-oled-ux3402za-i5-km218w-a-1.jpg" , hot:0,luot\_xem:272,an\_hien:1,tinh\_chat:2},

{id:119, ten\_sp: "Apple ROG Strix X N5100" , slug: "apple-rog-strix-x-n5100-119", gia:11441537, gia\_km:8039604,id\_loai:7, ngay: "2024-01-07" ,so\_luong:55,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:1,luot\_xem:946,an\_hien:1,tinh\_chat:2},

{id:120, ten\_sp: "HP Spirit 14 OLED UX3402ZA" , slug: "hp-spirit-14-oled-ux3402za-120", gia:11524678, gia\_km:7420019,id\_loai:5, ngay: "2024-04-27" ,so\_luong:41,hinh:"https://cdn.tgdd.vn/Products/Images/44/270141/chuwi-larkbook-x-n5100-2-1.jpg" , hot:0,luot\_xem:712,an\_hien:1,tinh\_chat:2},

{id:121, ten\_sp: "Surface Spirit G15 G513IH" , slug: "surface-spirit-g15-g513ih-121", gia:7288122, gia\_km:3847855,id\_loai:8, ngay: "2024-01-24" ,so\_luong:6,hinh:"https://cdn.tgdd.vn/Products/Images/44/302486/hp-victus-15-fa0111tx-i5-7c0r4pa-glr-1.jpg" , hot:0,luot\_xem:752,an\_hien:1,tinh\_chat:2},

{id:122, ten\_sp: "Acer Pro 9 14 OLED UX3402ZA" , slug: "acer-pro-9-14-oled-ux3402za-122", gia:17188775, gia\_km:13050569,id\_loai:2, ngay: "2023-06-22" ,so\_luong:23,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:0,luot\_xem:822,an\_hien:0,tinh\_chat:2},

{id:123, ten\_sp: "CHUWI LarkBook N4020" , slug: "chuwi-larkbook-n4020-123", gia:25797422, gia\_km:22392282,id\_loai:11, ngay: "2024-12-15" ,so\_luong:52,hinh:"https://cdn.tgdd.vn/Products/Images/44/264354/dell-gaming-g15-5511-i5-70266676-1-1.jpg" , hot:1,luot\_xem:762,an\_hien:1,tinh\_chat:2},

{id:124, ten\_sp: "MSI LarkBook M2 2022" , slug: "msi-larkbook-m2-2022-124", gia:18763833, gia\_km:16982713,id\_loai:4, ngay: "2023-08-03" ,so\_luong:90,hinh:"https://cdn.tgdd.vn/Products/Images/44/306795/lg-gram-2023-i7-17z90rgah78a5-1.jpg" , hot:1,luot\_xem:959,an\_hien:1,tinh\_chat:0},

{id:125, ten\_sp: "Masstel LarkBook 11SC" , slug: "masstel-larkbook-11sc-125", gia:28256974, gia\_km:26794710,id\_loai:9, ngay: "2024-02-19" ,so\_luong:77,hinh:"https://cdn.tgdd.vn/Products/Images/44/270141/chuwi-larkbook-x-n5100-2-1.jpg" , hot:1,luot\_xem:268,an\_hien:1,tinh\_chat:0},

{id:126, ten\_sp: "CHUWI E116 N4020" , slug: "chuwi-e116-n4020-126", gia:18378822, gia\_km:16638050,id\_loai:11, ngay: "2023-12-28" ,so\_luong:68,hinh:"https://cdn.tgdd.vn/Products/Images/44/302226/lenovo-ideapad-gaming-3-15ihu6-i5-82k101f3vn-1.jpg" , hot:0,luot\_xem:299,an\_hien:1,tinh\_chat:0},

{id:127, ten\_sp: "Surface MacBook Pro N4020" , slug: "surface-macbook-pro-n4020-127", gia:10140941, gia\_km:6569688,id\_loai:8, ngay: "2024-10-14" ,so\_luong:100,hinh:"https://cdn.tgdd.vn/Products/Images/44/302950/masstel-e116-n4020-glr-1.jpg" , hot:0,luot\_xem:217,an\_hien:1,tinh\_chat:2},

{id:128, ten\_sp: "Surface Nitro 5 Gaming AN515 45 R6EV" , slug: "surface-nitro-5-gaming-an515-45-r6ev-128", gia:18477240, gia\_km:14030120,id\_loai:8, ngay: "2024-08-23" ,so\_luong:53,hinh:"https://cdn.tgdd.vn/Products/Images/44/302226/lenovo-ideapad-gaming-3-15ihu6-i5-82k101f3vn-1.jpg" , hot:1,luot\_xem:331,an\_hien:1,tinh\_chat:2},

{id:129, ten\_sp: "Apple Gaming ROG Strix Gaming VICTUS" , slug: "apple-gaming-rog-strix-gaming-victus-129", gia:8354176, gia\_km:7261731,id\_loai:7, ngay: "2023-10-10" ,so\_luong:35,hinh:"https://cdn.tgdd.vn/Products/Images/44/302950/masstel-e116-n4020-glr-1.jpg" , hot:1,luot\_xem:924,an\_hien:1,tinh\_chat:0},

{id:130, ten\_sp: "Lenovo Zenbook X N5100" , slug: "lenovo-zenbook-x-n5100-130", gia:14752480, gia\_km:11745048,id\_loai:3, ngay: "2023-05-27" ,so\_luong:9,hinh:"https://cdn.tgdd.vn/Products/Images/44/264354/dell-gaming-g15-5511-i5-70266676-1-1.jpg" , hot:1,luot\_xem:296,an\_hien:1,tinh\_chat:2},

{id:131, ten\_sp: "Dell Vivobook G15 G513IH" , slug: "dell-vivobook-g15-g513ih-131", gia:23047184, gia\_km:18054636,id\_loai:6, ngay: "2024-01-06" ,so\_luong:87,hinh:"https://cdn.tgdd.vn/Products/Images/44/270141/chuwi-larkbook-x-n5100-2-1.jpg" , hot:1,luot\_xem:572,an\_hien:1,tinh\_chat:2},

{id:132, ten\_sp: "MSI Gaming ROG Strix 15 eg2082TU" , slug: "msi-gaming-rog-strix-15-eg2082tu-132", gia:21561826, gia\_km:18229911,id\_loai:4, ngay: "2023-02-15" ,so\_luong:49,hinh:"https://cdn.tgdd.vn/Products/Images/44/300000/itel-spirit-2-i5-71006300202-3.jpg" , hot:1,luot\_xem:760,an\_hien:0,tinh\_chat:2},

{id:133, ten\_sp: "Asus Spirit 1255U" , slug: "asus-spirit-1255u-133", gia:6339033, gia\_km:5183035,id\_loai:1, ngay: "2024-04-24" ,so\_luong:85,hinh:"https://cdn.tgdd.vn/Products/Images/44/302486/hp-victus-15-fa0111tx-i5-7c0r4pa-glr-1.jpg" , hot:0,luot\_xem:353,an\_hien:1,tinh\_chat:0},

{id:134, ten\_sp: "CHUWI Gaming G15 X 8259U" , slug: "chuwi-gaming-g15-x-8259u-134", gia:15184455, gia\_km:13580495,id\_loai:11, ngay: "2023-02-15" ,so\_luong:49,hinh:"https://cdn.tgdd.vn/Products/Images/44/302950/masstel-e116-n4020-glr-1.jpg" , hot:1,luot\_xem:209,an\_hien:1,tinh\_chat:0},

{id:135, ten\_sp: "Surface Zenbook N4120" , slug: "surface-zenbook-n4120-135", gia:21546422, gia\_km:20021897,id\_loai:8, ngay: "2024-08-27" ,so\_luong:59,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:1,luot\_xem:459,an\_hien:1,tinh\_chat:0},

{id:136, ten\_sp: "Masstel gram 2023 1255U" , slug: "masstel-gram-2023-1255u-136", gia:18565262, gia\_km:14436756,id\_loai:9, ngay: "2023-10-15" ,so\_luong:9,hinh:"https://cdn.tgdd.vn/Products/Images/44/264354/dell-gaming-g15-5511-i5-70266676-1-1.jpg" , hot:0,luot\_xem:489,an\_hien:1,tinh\_chat:2},

{id:137, ten\_sp: "itel Ideapad Gaming 3 fa0111TX i5" , slug: "itel-ideapad-gaming-3-fa0111tx-i5-137", gia:11591942, gia\_km:8670921,id\_loai:12, ngay: "2023-10-20" ,so\_luong:40,hinh:"https://cdn.tgdd.vn/Products/Images/44/270141/chuwi-larkbook-x-n5100-2-1.jpg" , hot:1,luot\_xem:969,an\_hien:0,tinh\_chat:0},

{id:138, ten\_sp: "Dell Pro 9 fa0111TX i5" , slug: "dell-pro-9-fa0111tx-i5-138", gia:17660963, gia\_km:12660967,id\_loai:6, ngay: "2023-02-23" ,so\_luong:100,hinh:"https://cdn.tgdd.vn/Products/Images/44/282828/apple-macbook-pro-13-inch-m2-2022-231122-041529.jpg" , hot:1,luot\_xem:297,an\_hien:1,tinh\_chat:2},

{id:139, ten\_sp: "MSI Gaming GF63 Thin fa0111TX i5" , slug: "msi-gaming-gf63-thin-fa0111tx-i5-139", gia:14322104, gia\_km:11138158,id\_loai:4, ngay: "2024-10-23" ,so\_luong:78,hinh:"https://cdn.tgdd.vn/Products/Images/44/300000/itel-spirit-2-i5-71006300202-3.jpg" , hot:1,luot\_xem:189,an\_hien:1,tinh\_chat:2},

{id:140, ten\_sp: "Apple Nitro 5 Gaming 14 OLED UX3402ZA" , slug: "apple-nitro-5-gaming-14-oled-ux3402za-140", gia:8986412, gia\_km:6814342,id\_loai:7, ngay: "2023-03-19" ,so\_luong:64,hinh:"https://cdn.tgdd.vn/Products/Images/44/306795/lg-gram-2023-i7-17z90rgah78a5-1.jpg" , hot:1,luot\_xem:468,an\_hien:1,tinh\_chat:0},

{id:141, ten\_sp: "CHUWI ABLE 15 eg2082TU" , slug: "chuwi-able-15-eg2082tu-141", gia:18928666, gia\_km:14995394,id\_loai:11, ngay: "2024-04-10" ,so\_luong:77,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:1,luot\_xem:518,an\_hien:1,tinh\_chat:2},

{id:142, ten\_sp: "Surface Vivobook G15 G513IH" , slug: "surface-vivobook-g15-g513ih-142", gia:7547859, gia\_km:3603294,id\_loai:8, ngay: "2023-09-23" ,so\_luong:59,hinh:"https://cdn.tgdd.vn/Products/Images/44/300000/itel-spirit-2-i5-71006300202-3.jpg" , hot:1,luot\_xem:568,an\_hien:1,tinh\_chat:2},

{id:143, ten\_sp: "Dell gram 2023 N4020" , slug: "dell-gram-2023-n4020-143", gia:23886921, gia\_km:22488194,id\_loai:6, ngay: "2024-12-13" ,so\_luong:0,hinh:"https://cdn.tgdd.vn/Products/Images/44/306795/lg-gram-2023-i7-17z90rgah78a5-1.jpg" , hot:0,luot\_xem:106,an\_hien:1,tinh\_chat:0},

{id:144, ten\_sp: "Lenovo E116 N4120" , slug: "lenovo-e116-n4120-144", gia:29112256, gia\_km:24158674,id\_loai:3, ngay: "2023-10-18" ,so\_luong:91,hinh:"https://cdn.tgdd.vn/Products/Images/44/270142/chuwi-corebook-x-i5-8259u-1-1.jpg" , hot:1,luot\_xem:767,an\_hien:1,tinh\_chat:0},

{id:145, ten\_sp: "Apple Vivobook N4120" , slug: "apple-vivobook-n4120-145", gia:7168682, gia\_km:3328453,id\_loai:7, ngay: "2024-11-15" ,so\_luong:25,hinh:"https://cdn.tgdd.vn/Products/Images/44/302951/masstel-e140-n4120-glr-2.jpg" , hot:0,luot\_xem:997,an\_hien:0,tinh\_chat:2},

{id:146, ten\_sp: "Acer Gaming GF63 Thin 1255U" , slug: "acer-gaming-gf63-thin-1255u-146", gia:13669452, gia\_km:9685689,id\_loai:2, ngay: "2023-07-22" ,so\_luong:25,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:0,luot\_xem:496,an\_hien:1,tinh\_chat:2},

{id:147, ten\_sp: "Surface Pavilion 1S N4020" , slug: "surface-pavilion-1s-n4020-147", gia:21585390, gia\_km:17811122,id\_loai:8, ngay: "2023-03-23" ,so\_luong:71,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:1,luot\_xem:650,an\_hien:1,tinh\_chat:2},

{id:148, ten\_sp: "CHUWI ABLE 1S N4020" , slug: "chuwi-able-1s-n4020-148", gia:15004185, gia\_km:13166294,id\_loai:11, ngay: "2023-01-24" ,so\_luong:14,hinh:"https://cdn.tgdd.vn/Products/Images/44/302950/masstel-e116-n4020-glr-1.jpg" , hot:0,luot\_xem:836,an\_hien:1,tinh\_chat:0},

{id:149, ten\_sp: "Dell MacBook Pro 15IHU6" , slug: "dell-macbook-pro-15ihu6-149", gia:6800373, gia\_km:1997933,id\_loai:6, ngay: "2024-10-27" ,so\_luong:68,hinh:"https://cdn.tgdd.vn/Products/Images/44/302486/hp-victus-15-fa0111tx-i5-7c0r4pa-glr-1.jpg" , hot:0,luot\_xem:110,an\_hien:1,tinh\_chat:2},

{id:150, ten\_sp: "CHUWI Pro 9 15 eg2082TU" , slug: "chuwi-pro-9-15-eg2082tu-150", gia:13297894, gia\_km:8475034,id\_loai:11, ngay: "2024-01-14" ,so\_luong:42,hinh:"https://cdn.tgdd.vn/Products/Images/44/270141/chuwi-larkbook-x-n5100-2-1.jpg" , hot:0,luot\_xem:824,an\_hien:0,tinh\_chat:2},

{id:151, ten\_sp: "CHUWI Ideapad Gaming 3 fa0111TX i5" , slug: "chuwi-ideapad-gaming-3-fa0111tx-i5-151", gia:20678083, gia\_km:15713793,id\_loai:11, ngay: "2024-11-26" ,so\_luong:79,hinh:"https://cdn.tgdd.vn/Products/Images/44/302226/lenovo-ideapad-gaming-3-15ihu6-i5-82k101f3vn-1.jpg" , hot:0,luot\_xem:696,an\_hien:1,tinh\_chat:2},

{id:152, ten\_sp: "HP CoreBook fa0111TX i5" , slug: "hp-corebook-fa0111tx-i5-152", gia:29657262, gia\_km:27199312,id\_loai:5, ngay: "2024-07-02" ,so\_luong:31,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:1,luot\_xem:164,an\_hien:1,tinh\_chat:0},

{id:153, ten\_sp: "Acer ABLE X N5100" , slug: "acer-able-x-n5100-153", gia:25294494, gia\_km:23070619,id\_loai:2, ngay: "2023-02-08" ,so\_luong:17,hinh:"https://cdn.tgdd.vn/Products/Images/44/300000/itel-spirit-2-i5-71006300202-3.jpg" , hot:1,luot\_xem:945,an\_hien:1,tinh\_chat:0},

{id:154, ten\_sp: "Dell Gaming ROG Strix 5511 11400H" , slug: "dell-gaming-rog-strix-5511-11400h-154", gia:29128731, gia\_km:27815459,id\_loai:6, ngay: "2024-02-03" ,so\_luong:91,hinh:"https://cdn.tgdd.vn/Products/Images/44/282828/apple-macbook-pro-13-inch-m2-2022-231122-041529.jpg" , hot:1,luot\_xem:272,an\_hien:1,tinh\_chat:0},

{id:155, ten\_sp: "Dell Nitro 5 Gaming 15IHU6" , slug: "dell-nitro-5-gaming-15ihu6-155", gia:26180411, gia\_km:23918322,id\_loai:6, ngay: "2023-10-17" ,so\_luong:1,hinh:"https://cdn.tgdd.vn/Products/Images/44/270142/chuwi-corebook-x-i5-8259u-1-1.jpg" , hot:0,luot\_xem:213,an\_hien:1,tinh\_chat:0},

{id:156, ten\_sp: "HP Gaming G15 14 OLED UX3402ZA" , slug: "hp-gaming-g15-14-oled-ux3402za-156", gia:5610467, gia\_km:3392078,id\_loai:5, ngay: "2023-07-04" ,so\_luong:35,hinh:"https://cdn.tgdd.vn/Products/Images/44/270142/chuwi-corebook-x-i5-8259u-1-1.jpg" , hot:0,luot\_xem:214,an\_hien:1,tinh\_chat:1},

{id:157, ten\_sp: "Apple Pro 9 N4120" , slug: "apple-pro-9-n4120-157", gia:11467793, gia\_km:8203797,id\_loai:7, ngay: "2024-09-21" ,so\_luong:32,hinh:"https://cdn.tgdd.vn/Products/Images/44/265523/itel-able-1s-n4020-71006300027-1-1.jpg" , hot:1,luot\_xem:909,an\_hien:0,tinh\_chat:2},

{id:158, ten\_sp: "Asus Zenbook 15IHU6" , slug: "asus-zenbook-15ihu6-158", gia:20501503, gia\_km:17289343,id\_loai:1, ngay: "2024-10-16" ,so\_luong:52,hinh:"https://cdn.tgdd.vn/Products/Images/44/300000/itel-spirit-2-i5-71006300202-3.jpg" , hot:1,luot\_xem:473,an\_hien:1,tinh\_chat:2},

{id:159, ten\_sp: "LG MacBook Pro G15 G513IH" , slug: "lg-macbook-pro-g15-g513ih-159", gia:5131446, gia\_km:790296,id\_loai:10, ngay: "2023-03-03" ,so\_luong:30,hinh:"https://cdn.tgdd.vn/Products/Images/44/281483/asus-vivobook-15-x1502za-i5-ej120w-1-1.jpg" , hot:0,luot\_xem:165,an\_hien:1,tinh\_chat:2},

{id:160, ten\_sp: "itel Pro 9 14 OLED UX3402ZA" , slug: "itel-pro-9-14-oled-ux3402za-160", gia:23832915, gia\_km:22310437,id\_loai:12, ngay: "2023-11-01" ,so\_luong:16,hinh:"https://cdn.tgdd.vn/Products/Images/44/265523/itel-able-1s-n4020-71006300027-1-1.jpg" , hot:1,luot\_xem:209,an\_hien:1,tinh\_chat:0},

{id:161, ten\_sp: "Apple E140 M2 2022" , slug: "apple-e140-m2-2022-161", gia:7394341, gia\_km:4599100,id\_loai:7, ngay: "2024-06-14" ,so\_luong:59,hinh:"https://cdn.tgdd.vn/Products/Images/44/270141/chuwi-larkbook-x-n5100-2-1.jpg" , hot:0,luot\_xem:666,an\_hien:1,tinh\_chat:0},

{id:162, ten\_sp: "HP Gaming ROG Strix AN515 45 R6EV" , slug: "hp-gaming-rog-strix-an515-45-r6ev-162", gia:22497653, gia\_km:19168541,id\_loai:5, ngay: "2024-08-07" ,so\_luong:26,hinh:"https://cdn.tgdd.vn/Products/Images/44/302226/lenovo-ideapad-gaming-3-15ihu6-i5-82k101f3vn-1.jpg" , hot:1,luot\_xem:673,an\_hien:1,tinh\_chat:2},

{id:163, ten\_sp: "Surface LarkBook AN515 45 R6EV" , slug: "surface-larkbook-an515-45-r6ev-163", gia:17318132, gia\_km:13978060,id\_loai:8, ngay: "2023-04-12" ,so\_luong:64,hinh:"https://cdn.tgdd.vn/Products/Images/44/282828/apple-macbook-pro-13-inch-m2-2022-231122-041529.jpg" , hot:1,luot\_xem:820,an\_hien:1,tinh\_chat:2},

{id:164, ten\_sp: "MSI Spirit Gaming VICTUS" , slug: "msi-spirit-gaming-victus-164", gia:5511340, gia\_km:4023953,id\_loai:4, ngay: "2023-12-25" ,so\_luong:20,hinh:"https://cdn.tgdd.vn/Products/Images/44/302486/hp-victus-15-fa0111tx-i5-7c0r4pa-glr-1.jpg" , hot:0,luot\_xem:533,an\_hien:1,tinh\_chat:1},

{id:165, ten\_sp: "CHUWI CoreBook M2 2022" , slug: "chuwi-corebook-m2-2022-165", gia:12206250, gia\_km:7683927,id\_loai:11, ngay: "2024-08-13" ,so\_luong:32,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:0,luot\_xem:390,an\_hien:1,tinh\_chat:2},

{id:166, ten\_sp: "MSI Pavilion fa0111TX i5" , slug: "msi-pavilion-fa0111tx-i5-166", gia:12364749, gia\_km:8022340,id\_loai:4, ngay: "2023-03-08" ,so\_luong:5,hinh:"https://cdn.tgdd.vn/Products/Images/44/282828/apple-macbook-pro-13-inch-m2-2022-231122-041529.jpg" , hot:1,luot\_xem:765,an\_hien:1,tinh\_chat:2},

{id:167, ten\_sp: "Acer LarkBook 1360P" , slug: "acer-larkbook-1360p-167", gia:7108048, gia\_km:4170160,id\_loai:2, ngay: "2024-02-20" ,so\_luong:27,hinh:"https://cdn.tgdd.vn/Products/Images/44/302950/masstel-e116-n4020-glr-1.jpg" , hot:1,luot\_xem:594,an\_hien:1,tinh\_chat:0},

{id:168, ten\_sp: "CHUWI MacBook Pro 15 eg2082TU" , slug: "chuwi-macbook-pro-15-eg2082tu-168", gia:12039864, gia\_km:10416415,id\_loai:11, ngay: "2024-09-14" ,so\_luong:5,hinh:"https://cdn.tgdd.vn/Products/Images/44/300000/itel-spirit-2-i5-71006300202-3.jpg" , hot:0,luot\_xem:378,an\_hien:1,tinh\_chat:0},

{id:169, ten\_sp: "Dell E140 Gaming VICTUS" , slug: "dell-e140-gaming-victus-169", gia:5931201, gia\_km:3837460,id\_loai:6, ngay: "2024-04-09" ,so\_luong:81,hinh:"https://cdn.tgdd.vn/Products/Images/44/302226/lenovo-ideapad-gaming-3-15ihu6-i5-82k101f3vn-1.jpg" , hot:0,luot\_xem:697,an\_hien:1,tinh\_chat:1},

{id:170, ten\_sp: "CHUWI MacBook Pro 1S N4020" , slug: "chuwi-macbook-pro-1s-n4020-170", gia:12184118, gia\_km:8581607,id\_loai:11, ngay: "2024-12-13" ,so\_luong:71,hinh:"https://cdn.tgdd.vn/Products/Images/44/265523/itel-able-1s-n4020-71006300027-1-1.jpg" , hot:0,luot\_xem:29,an\_hien:1,tinh\_chat:2},

{id:171, ten\_sp: "MSI CoreBook 5511 11400H" , slug: "msi-corebook-5511-11400h-171", gia:7420848, gia\_km:2632117,id\_loai:4, ngay: "2023-12-01" ,so\_luong:76,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:0,luot\_xem:909,an\_hien:0,tinh\_chat:2},

{id:172, ten\_sp: "LG Pro 9 X 8259U" , slug: "lg-pro-9-x-8259u-172", gia:16940656, gia\_km:14236055,id\_loai:10, ngay: "2024-08-08" ,so\_luong:26,hinh:"https://cdn.tgdd.vn/Products/Images/44/281483/asus-vivobook-15-x1502za-i5-ej120w-1-1.jpg" , hot:0,luot\_xem:561,an\_hien:1,tinh\_chat:0},

{id:173, ten\_sp: "HP Nitro 5 Gaming 15IHU6" , slug: "hp-nitro-5-gaming-15ihu6-173", gia:5210987, gia\_km:1066891,id\_loai:5, ngay: "2023-09-06" ,so\_luong:99,hinh:"https://cdn.tgdd.vn/Products/Images/44/306795/lg-gram-2023-i7-17z90rgah78a5-1.jpg" , hot:1,luot\_xem:792,an\_hien:0,tinh\_chat:2},

{id:174, ten\_sp: "Lenovo Pro 9 11SC" , slug: "lenovo-pro-9-11sc-174", gia:14056678, gia\_km:11382756,id\_loai:3, ngay: "2024-06-01" ,so\_luong:20,hinh:"https://cdn.tgdd.vn/Products/Images/44/264354/dell-gaming-g15-5511-i5-70266676-1-1.jpg" , hot:0,luot\_xem:958,an\_hien:1,tinh\_chat:0},

{id:175, ten\_sp: "Surface Gaming G15 fa0111TX i5" , slug: "surface-gaming-g15-fa0111tx-i5-175", gia:23574416, gia\_km:22124801,id\_loai:8, ngay: "2024-03-22" ,so\_luong:96,hinh:"https://cdn.tgdd.vn/Products/Images/44/270142/chuwi-corebook-x-i5-8259u-1-1.jpg" , hot:0,luot\_xem:916,an\_hien:1,tinh\_chat:0},

{id:176, ten\_sp: "Masstel ABLE AN515 45 R6EV" , slug: "masstel-able-an515-45-r6ev-176", gia:25528087, gia\_km:23806696,id\_loai:9, ngay: "2023-01-21" ,so\_luong:7,hinh:"https://cdn.tgdd.vn/Products/Images/44/282828/apple-macbook-pro-13-inch-m2-2022-231122-041529.jpg" , hot:0,luot\_xem:889,an\_hien:1,tinh\_chat:0},

{id:177, ten\_sp: "Apple Gaming G15 15 X1502ZA i5" , slug: "apple-gaming-g15-15-x1502za-i5-177", gia:26651290, gia\_km:23987592,id\_loai:7, ngay: "2024-03-04" ,so\_luong:78,hinh:"https://cdn.tgdd.vn/Products/Images/44/302486/hp-victus-15-fa0111tx-i5-7c0r4pa-glr-1.jpg" , hot:0,luot\_xem:964,an\_hien:1,tinh\_chat:0},

{id:178, ten\_sp: "Acer Gaming G15 N4120" , slug: "acer-gaming-g15-n4120-178", gia:5042343, gia\_km:3484015,id\_loai:2, ngay: "2024-08-08" ,so\_luong:68,hinh:"https://cdn.tgdd.vn/Products/Images/44/302486/hp-victus-15-fa0111tx-i5-7c0r4pa-glr-1.jpg" , hot:1,luot\_xem:113,an\_hien:1,tinh\_chat:1},

{id:179, ten\_sp: "Lenovo E116 X N5100" , slug: "lenovo-e116-x-n5100-179", gia:19550062, gia\_km:17694010,id\_loai:3, ngay: "2024-08-16" ,so\_luong:88,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:1,luot\_xem:833,an\_hien:1,tinh\_chat:0},

{id:180, ten\_sp: "LG ABLE X 8259U" , slug: "lg-able-x-8259u-180", gia:25059506, gia\_km:22025472,id\_loai:10, ngay: "2024-05-02" ,so\_luong:62,hinh:"https://cdn.tgdd.vn/Products/Images/44/284258/asus-zenbook-14-oled-ux3402za-i5-km218w-a-1.jpg" , hot:0,luot\_xem:38,an\_hien:1,tinh\_chat:2},

{id:181, ten\_sp: "Asus Pavilion G15 G513IH" , slug: "asus-pavilion-g15-g513ih-181", gia:13927145, gia\_km:11384137,id\_loai:1, ngay: "2023-04-15" ,so\_luong:89,hinh:"https://cdn.tgdd.vn/Products/Images/44/264354/dell-gaming-g15-5511-i5-70266676-1-1.jpg" , hot:0,luot\_xem:576,an\_hien:0,tinh\_chat:0},

{id:182, ten\_sp: "Acer Zenbook 15 eg2082TU" , slug: "acer-zenbook-15-eg2082tu-182", gia:20933872, gia\_km:19607991,id\_loai:2, ngay: "2024-04-19" ,so\_luong:72,hinh:"https://cdn.tgdd.vn/Products/Images/44/302533/hp-pavilion-15-eg2082tu-i5-7c0q5pa-1.jpg" , hot:0,luot\_xem:759,an\_hien:1,tinh\_chat:0},

{id:183, ten\_sp: "Asus LarkBook 15 eg2082TU" , slug: "asus-larkbook-15-eg2082tu-183", gia:19558829, gia\_km:17241277,id\_loai:1, ngay: "2023-12-18" ,so\_luong:16,hinh:"https://cdn.tgdd.vn/Products/Images/44/300000/itel-spirit-2-i5-71006300202-3.jpg" , hot:1,luot\_xem:667,an\_hien:1,tinh\_chat:0},

{id:184, ten\_sp: "Asus MacBook Pro 15IHU6" , slug: "asus-macbook-pro-15ihu6-184", gia:12183702, gia\_km:10551500,id\_loai:1, ngay: "2024-07-08" ,so\_luong:55,hinh:"https://cdn.tgdd.vn/Products/Images/44/302226/lenovo-ideapad-gaming-3-15ihu6-i5-82k101f3vn-1.jpg" , hot:1,luot\_xem:754,an\_hien:1,tinh\_chat:0},

{id:185, ten\_sp: "Lenovo Vivobook 5511 11400H" , slug: "lenovo-vivobook-5511-11400h-185", gia:18208330, gia\_km:16804905,id\_loai:3, ngay: "2023-02-11" ,so\_luong:69,hinh:"https://cdn.tgdd.vn/Products/Images/44/270142/chuwi-corebook-x-i5-8259u-1-1.jpg" , hot:0,luot\_xem:787,an\_hien:1,tinh\_chat:0},

{id:186, ten\_sp: "Surface Zenbook 1255U" , slug: "surface-zenbook-1255u-186", gia:14941575, gia\_km:11044509,id\_loai:8, ngay: "2024-05-12" ,so\_luong:71,hinh:"https://cdn.tgdd.vn/Products/Images/44/284258/asus-zenbook-14-oled-ux3402za-i5-km218w-a-1.jpg" , hot:0,luot\_xem:884,an\_hien:1,tinh\_chat:2},

{id:187, ten\_sp: "itel Vivobook X 8259U" , slug: "itel-vivobook-x-8259u-187", gia:13306853, gia\_km:11253317,id\_loai:12, ngay: "2023-03-03" ,so\_luong:70,hinh:"https://cdn.tgdd.vn/Products/Images/44/281483/asus-vivobook-15-x1502za-i5-ej120w-1-1.jpg" , hot:1,luot\_xem:953,an\_hien:1,tinh\_chat:0},

{id:188, ten\_sp: "Dell Nitro 5 Gaming AN515 45 R6EV" , slug: "dell-nitro-5-gaming-an515-45-r6ev-188", gia:19395630, gia\_km:15588567,id\_loai:6, ngay: "2024-05-28" ,so\_luong:31,hinh:"https://cdn.tgdd.vn/Products/Images/44/270141/chuwi-larkbook-x-n5100-2-1.jpg" , hot:0,luot\_xem:452,an\_hien:1,tinh\_chat:2},

{id:189, ten\_sp: "Lenovo E140 AN515 45 R6EV" , slug: "lenovo-e140-an515-45-r6ev-189", gia:23410044, gia\_km:22239433,id\_loai:3, ngay: "2024-02-07" ,so\_luong:95,hinh:"https://cdn.tgdd.vn/Products/Images/44/302486/hp-victus-15-fa0111tx-i5-7c0r4pa-glr-1.jpg" , hot:1,luot\_xem:102,an\_hien:1,tinh\_chat:0},

{id:190, ten\_sp: "Dell Spirit fa0111TX i5" , slug: "dell-spirit-fa0111tx-i5-190", gia:15233149, gia\_km:12705184,id\_loai:6, ngay: "2023-04-07" ,so\_luong:67,hinh:"https://cdn.tgdd.vn/Products/Images/44/264354/dell-gaming-g15-5511-i5-70266676-1-1.jpg" , hot:1,luot\_xem:530,an\_hien:1,tinh\_chat:0},

{id:191, ten\_sp: "HP Nitro 5 Gaming 15 X1502ZA i5" , slug: "hp-nitro-5-gaming-15-x1502za-i5-191", gia:29139755, gia\_km:26432153,id\_loai:5, ngay: "2024-03-15" ,so\_luong:34,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:1,luot\_xem:867,an\_hien:1,tinh\_chat:0},

{id:192, ten\_sp: "MSI E116 fa0111TX i5" , slug: "msi-e116-fa0111tx-i5-192", gia:5064321, gia\_km:1914770,id\_loai:4, ngay: "2024-10-24" ,so\_luong:22,hinh:"https://cdn.tgdd.vn/Products/Images/44/302951/masstel-e140-n4120-glr-2.jpg" , hot:1,luot\_xem:795,an\_hien:1,tinh\_chat:2},

{id:193, ten\_sp: "Acer Spirit 15IHU6" , slug: "acer-spirit-15ihu6-193", gia:10684703, gia\_km:5984170,id\_loai:2, ngay: "2023-12-24" ,so\_luong:20,hinh:"https://cdn.tgdd.vn/Products/Images/44/270141/chuwi-larkbook-x-n5100-2-1.jpg" , hot:1,luot\_xem:97,an\_hien:1,tinh\_chat:2},

{id:194, ten\_sp: "MSI gram 2023 1360P" , slug: "msi-gram-2023-1360p-194", gia:15627224, gia\_km:13266893,id\_loai:4, ngay: "2023-05-02" ,so\_luong:61,hinh:"https://cdn.tgdd.vn/Products/Images/44/265523/itel-able-1s-n4020-71006300027-1-1.jpg" , hot:0,luot\_xem:989,an\_hien:1,tinh\_chat:0},

{id:195, ten\_sp: "MSI MacBook Pro N4120" , slug: "msi-macbook-pro-n4120-195", gia:23312223, gia\_km:21952669,id\_loai:4, ngay: "2023-01-18" ,so\_luong:29,hinh:"https://cdn.tgdd.vn/Products/Images/44/270031/asus-rog-strix-gaming-g513ih-r7-hn015w-2-1.jpg" , hot:0,luot\_xem:653,an\_hien:1,tinh\_chat:0},

{id:196, ten\_sp: "Asus Nitro 5 Gaming 14 OLED UX3402ZA" , slug: "asus-nitro-5-gaming-14-oled-ux3402za-196", gia:13625028, gia\_km:12460985,id\_loai:1, ngay: "2023-11-27" ,so\_luong:88,hinh:"https://cdn.tgdd.vn/Products/Images/44/284258/asus-zenbook-14-oled-ux3402za-i5-km218w-a-1.jpg" , hot:0,luot\_xem:314,an\_hien:1,tinh\_chat:0},

{id:197, ten\_sp: "LG E140 M2 2022" , slug: "lg-e140-m2-2022-197", gia:27585562, gia\_km:22725256,id\_loai:10, ngay: "2024-03-21" ,so\_luong:70,hinh:"https://cdn.tgdd.vn/Products/Images/44/281483/asus-vivobook-15-x1502za-i5-ej120w-1-1.jpg" , hot:1,luot\_xem:792,an\_hien:1,tinh\_chat:2},

{id:198, ten\_sp: "Surface Pro 9 AN515 45 R6EV" , slug: "surface-pro-9-an515-45-r6ev-198", gia:10825472, gia\_km:7637415,id\_loai:8, ngay: "2024-05-16" ,so\_luong:5,hinh:"https://cdn.tgdd.vn/Products/Images/44/270142/chuwi-corebook-x-i5-8259u-1-1.jpg" , hot:1,luot\_xem:400,an\_hien:1,tinh\_chat:2},

{id:199, ten\_sp: "Lenovo Nitro 5 Gaming Gaming VICTUS" , slug: "lenovo-nitro-5-gaming-gaming-victus-199", gia:19805505, gia\_km:15453563,id\_loai:3, ngay: "2024-02-16" ,so\_luong:61,hinh:"https://cdn.tgdd.vn/Products/Images/44/263980/Slider/vi-vn-acer-nitro-5-gaming-an515-45-r6ev-r5-nhqbmsv006-4.jpg" , hot:0,luot\_xem:68,an\_hien:1,tinh\_chat:2},

{id:200, ten\_sp: "HP gram 2023 X 8259U" , slug: "hp-gram-2023-x-8259u-200", gia:8084595, gia\_km:6755544,id\_loai:5, ngay: "2023-09-27" ,so\_luong:5,hinh:"https://cdn.tgdd.vn/Products/Images/44/270141/chuwi-larkbook-x-n5100-2-1.jpg" , hot:0,luot\_xem:583,an\_hien:1,tinh\_chat:0}

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{id:4 ,id\_sp: 4 , ram: "4GB" , cpu: "i3" , dia\_cung: "256GB" , mau\_sac: "Bạc" , can\_nang: "1.8"},

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{id:79 ,id\_sp: 79 , ram: "4GB" , cpu: "i5" , dia\_cung: "512GB" , mau\_sac: "Trắng" , can\_nang: "1.4"},

{id:80 ,id\_sp: 80 , ram: "32GB" , cpu: "i5" , dia\_cung: "1TB" , mau\_sac: "Trắng" , can\_nang: "2.0"},

{id:81 ,id\_sp: 81 , ram: "8GB" , cpu: "i7" , dia\_cung: "256GB" , mau\_sac: "Đen" , can\_nang: "2.5"},

{id:82 ,id\_sp: 82 , ram: "4GB" , cpu: "i3" , dia\_cung: "256GB" , mau\_sac: "Đỏ" , can\_nang: "1.0"},

{id:83 ,id\_sp: 83 , ram: "16GB" , cpu: "i3" , dia\_cung: "1TB" , mau\_sac: "Bạc" , can\_nang: "2.0"},

{id:84 ,id\_sp: 84 , ram: "32GB" , cpu: "i3" , dia\_cung: "256GB" , mau\_sac: "Đỏ" , can\_nang: "1.8"},

{id:85 ,id\_sp: 85 , ram: "8GB" , cpu: "i7" , dia\_cung: "1TB" , mau\_sac: "Xám" , can\_nang: "1.4"},

{id:86 ,id\_sp: 86 , ram: "16GB" , cpu: "i5" , dia\_cung: "256GB" , mau\_sac: "Xám" , can\_nang: "2.3"},

{id:87 ,id\_sp: 87 , ram: "4GB" , cpu: "i5" , dia\_cung: "512GB" , mau\_sac: "Xám" , can\_nang: "2.5"},

{id:88 ,id\_sp: 88 , ram: "4GB" , cpu: "i3" , dia\_cung: "256GB" , mau\_sac: "Bạc" , can\_nang: "1.8"},

{id:89 ,id\_sp: 89 , ram: "4GB" , cpu: "i3" , dia\_cung: "512GB" , mau\_sac: "Xám" , can\_nang: "1.8"},

{id:90 ,id\_sp: 90 , ram: "4GB" , cpu: "i5" , dia\_cung: "256GB" , mau\_sac: "Đen" , can\_nang: "2.5"},

{id:91 ,id\_sp: 91 , ram: "32GB" , cpu: "i5" , dia\_cung: "1TB" , mau\_sac: "Đen" , can\_nang: "1.6"},

{id:92 ,id\_sp: 92 , ram: "4GB" , cpu: "i3" , dia\_cung: "512GB" , mau\_sac: "Bạc" , can\_nang: "1.6"},

{id:93 ,id\_sp: 93 , ram: "8GB" , cpu: "i3" , dia\_cung: "1TB" , mau\_sac: "Đen" , can\_nang: "1.2"},

{id:94 ,id\_sp: 94 , ram: "16GB" , cpu: "i5" , dia\_cung: "1TB" , mau\_sac: "Đỏ" , can\_nang: "2.3"},

{id:95 ,id\_sp: 95 , ram: "16GB" , cpu: "i7" , dia\_cung: "256GB" , mau\_sac: "Trắng" , can\_nang: "1.0"},

{id:96 ,id\_sp: 96 , ram: "32GB" , cpu: "i3" , dia\_cung: "1TB" , mau\_sac: "Trắng" , can\_nang: "2.3"},

{id:97 ,id\_sp: 97 , ram: "8GB" , cpu: "i5" , dia\_cung: "256GB" , mau\_sac: "Đen" , can\_nang: "1.8"},

{id:98 ,id\_sp: 98 , ram: "4GB" , cpu: "i3" , dia\_cung: "256GB" , mau\_sac: "Xám" , can\_nang: "1.4"},

{id:99 ,id\_sp: 99 , ram: "16GB" , cpu: "i7" , dia\_cung: "512GB" , mau\_sac: "Bạc" , can\_nang: "1.4"},

{id:100 ,id\_sp: 100 , ram: "16GB" , cpu: "i3" , dia\_cung: "256GB" , mau\_sac: "Đen" , can\_nang: "1.6"},

{id:101 ,id\_sp: 101 , ram: "16GB" , cpu: "i3" , dia\_cung: "1TB" , mau\_sac: "Đỏ" , can\_nang: "1.8"},

{id:102 ,id\_sp: 102 , ram: "16GB" , cpu: "i5" , dia\_cung: "512GB" , mau\_sac: "Đen" , can\_nang: "2.3"},

{id:103 ,id\_sp: 103 , ram: "16GB" , cpu: "i3" , dia\_cung: "256GB" , mau\_sac: "Đen" , can\_nang: "1.2"},

{id:104 ,id\_sp: 104 , ram: "8GB" , cpu: "i3" , dia\_cung: "256GB" , mau\_sac: "Bạc" , can\_nang: "2.5"},

{id:105 ,id\_sp: 105 , ram: "4GB" , cpu: "i5" , dia\_cung: "1TB" , mau\_sac: "Đỏ" , can\_nang: "1.4"},

{id:106 ,id\_sp: 106 , ram: "16GB" , cpu: "i5" , dia\_cung: "256GB" , mau\_sac: "Xám" , can\_nang: "1.6"},

{id:107 ,id\_sp: 107 , ram: "4GB" , cpu: "i7" , dia\_cung: "1TB" , mau\_sac: "Bạc" , can\_nang: "1.8"},

{id:108 ,id\_sp: 108 , ram: "8GB" , cpu: "i7" , dia\_cung: "512GB" , mau\_sac: "Đen" , can\_nang: "2.3"},

{id:109 ,id\_sp: 109 , ram: "4GB" , cpu: "i7" , dia\_cung: "1TB" , mau\_sac: "Xám" , can\_nang: "1.0"},

{id:110 ,id\_sp: 110 , ram: "8GB" , cpu: "i5" , dia\_cung: "1TB" , mau\_sac: "Đỏ" , can\_nang: "1.4"},

{id:111 ,id\_sp: 111 , ram: "16GB" , cpu: "i7" , dia\_cung: "1TB" , mau\_sac: "Trắng" , can\_nang: "2.5"},

{id:112 ,id\_sp: 112 , ram: "32GB" , cpu: "i7" , dia\_cung: "256GB" , mau\_sac: "Đen" , can\_nang: "2.0"},

{id:113 ,id\_sp: 113 , ram: "32GB" , cpu: "i3" , dia\_cung: "256GB" , mau\_sac: "Đỏ" , can\_nang: "1.6"},

{id:114 ,id\_sp: 114 , ram: "8GB" , cpu: "i7" , dia\_cung: "256GB" , mau\_sac: "Xám" , can\_nang: "1.6"},

{id:115 ,id\_sp: 115 , ram: "32GB" , cpu: "i5" , dia\_cung: "256GB" , mau\_sac: "Bạc" , can\_nang: "1.4"},

{id:116 ,id\_sp: 116 , ram: "8GB" , cpu: "i5" , dia\_cung: "256GB" , mau\_sac: "Đỏ" , can\_nang: "1.0"},

{id:117 ,id\_sp: 117 , ram: "16GB" , cpu: "i7" , dia\_cung: "256GB" , mau\_sac: "Trắng" , can\_nang: "2.5"},

{id:118 ,id\_sp: 118 , ram: "8GB" , cpu: "i5" , dia\_cung: "256GB" , mau\_sac: "Đen" , can\_nang: "1.8"},

{id:119 ,id\_sp: 119 , ram: "4GB" , cpu: "i3" , dia\_cung: "1TB" , mau\_sac: "Bạc" , can\_nang: "2.3"},

{id:120 ,id\_sp: 120 , ram: "16GB" , cpu: "i7" , dia\_cung: "1TB" , mau\_sac: "Xám" , can\_nang: "1.4"},

{id:121 ,id\_sp: 121 , ram: "16GB" , cpu: "i7" , dia\_cung: "512GB" , mau\_sac: "Đỏ" , can\_nang: "1.0"},

{id:122 ,id\_sp: 122 , ram: "8GB" , cpu: "i3" , dia\_cung: "512GB" , mau\_sac: "Trắng" , can\_nang: "1.0"},

{id:123 ,id\_sp: 123 , ram: "16GB" , cpu: "i3" , dia\_cung: "1TB" , mau\_sac: "Bạc" , can\_nang: "2.0"},

{id:124 ,id\_sp: 124 , ram: "8GB" , cpu: "i5" , dia\_cung: "512GB" , mau\_sac: "Đen" , can\_nang: "1.8"},

{id:125 ,id\_sp: 125 , ram: "4GB" , cpu: "i7" , dia\_cung: "512GB" , mau\_sac: "Đen" , can\_nang: "2.0"},

{id:126 ,id\_sp: 126 , ram: "16GB" , cpu: "i7" , dia\_cung: "256GB" , mau\_sac: "Bạc" , can\_nang: "2.5"},

{id:127 ,id\_sp: 127 , ram: "4GB" , cpu: "i5" , dia\_cung: "256GB" , mau\_sac: "Đỏ" , can\_nang: "2.3"},

{id:128 ,id\_sp: 128 , ram: "16GB" , cpu: "i3" , dia\_cung: "512GB" , mau\_sac: "Bạc" , can\_nang: "1.4"},

{id:129 ,id\_sp: 129 , ram: "16GB" , cpu: "i5" , dia\_cung: "512GB" , mau\_sac: "Xám" , can\_nang: "1.8"},

{id:130 ,id\_sp: 130 , ram: "4GB" , cpu: "i7" , dia\_cung: "256GB" , mau\_sac: "Trắng" , can\_nang: "2.3"},

{id:131 ,id\_sp: 131 , ram: "32GB" , cpu: "i3" , dia\_cung: "1TB" , mau\_sac: "Xám" , can\_nang: "1.4"},

{id:132 ,id\_sp: 132 , ram: "8GB" , cpu: "i7" , dia\_cung: "512GB" , mau\_sac: "Bạc" , can\_nang: "2.3"},

{id:133 ,id\_sp: 133 , ram: "16GB" , cpu: "i3" , dia\_cung: "1TB" , mau\_sac: "Xám" , can\_nang: "1.2"},

{id:134 ,id\_sp: 134 , ram: "32GB" , cpu: "i7" , dia\_cung: "512GB" , mau\_sac: "Xám" , can\_nang: "1.6"},

{id:135 ,id\_sp: 135 , ram: "32GB" , cpu: "i7" , dia\_cung: "1TB" , mau\_sac: "Đỏ" , can\_nang: "2.5"},

{id:136 ,id\_sp: 136 , ram: "4GB" , cpu: "i5" , dia\_cung: "512GB" , mau\_sac: "Đỏ" , can\_nang: "1.2"},

{id:137 ,id\_sp: 137 , ram: "16GB" , cpu: "i7" , dia\_cung: "1TB" , mau\_sac: "Đỏ" , can\_nang: "1.4"},

{id:138 ,id\_sp: 138 , ram: "32GB" , cpu: "i3" , dia\_cung: "256GB" , mau\_sac: "Xám" , can\_nang: "1.2"},

{id:139 ,id\_sp: 139 , ram: "32GB" , cpu: "i3" , dia\_cung: "512GB" , mau\_sac: "Trắng" , can\_nang: "2.0"},

{id:140 ,id\_sp: 140 , ram: "16GB" , cpu: "i7" , dia\_cung: "512GB" , mau\_sac: "Trắng" , can\_nang: "1.2"},

{id:141 ,id\_sp: 141 , ram: "8GB" , cpu: "i3" , dia\_cung: "512GB" , mau\_sac: "Đen" , can\_nang: "2.3"},

{id:142 ,id\_sp: 142 , ram: "32GB" , cpu: "i5" , dia\_cung: "256GB" , mau\_sac: "Bạc" , can\_nang: "2.0"},

{id:143 ,id\_sp: 143 , ram: "4GB" , cpu: "i5" , dia\_cung: "1TB" , mau\_sac: "Đen" , can\_nang: "1.0"},

{id:144 ,id\_sp: 144 , ram: "4GB" , cpu: "i5" , dia\_cung: "256GB" , mau\_sac: "Đỏ" , can\_nang: "2.0"},

{id:145 ,id\_sp: 145 , ram: "32GB" , cpu: "i3" , dia\_cung: "512GB" , mau\_sac: "Bạc" , can\_nang: "1.8"},

{id:146 ,id\_sp: 146 , ram: "16GB" , cpu: "i5" , dia\_cung: "1TB" , mau\_sac: "Trắng" , can\_nang: "1.2"},

{id:147 ,id\_sp: 147 , ram: "8GB" , cpu: "i5" , dia\_cung: "256GB" , mau\_sac: "Xám" , can\_nang: "1.6"},

{id:148 ,id\_sp: 148 , ram: "16GB" , cpu: "i5" , dia\_cung: "1TB" , mau\_sac: "Đen" , can\_nang: "1.0"},

{id:149 ,id\_sp: 149 , ram: "32GB" , cpu: "i7" , dia\_cung: "256GB" , mau\_sac: "Xám" , can\_nang: "1.8"},

{id:150 ,id\_sp: 150 , ram: "32GB" , cpu: "i3" , dia\_cung: "1TB" , mau\_sac: "Xám" , can\_nang: "1.2"},

{id:151 ,id\_sp: 151 , ram: "32GB" , cpu: "i7" , dia\_cung: "256GB" , mau\_sac: "Trắng" , can\_nang: "1.6"},

{id:152 ,id\_sp: 152 , ram: "4GB" , cpu: "i7" , dia\_cung: "512GB" , mau\_sac: "Xám" , can\_nang: "1.6"},

{id:153 ,id\_sp: 153 , ram: "4GB" , cpu: "i5" , dia\_cung: "512GB" , mau\_sac: "Xám" , can\_nang: "2.5"},

{id:154 ,id\_sp: 154 , ram: "8GB" , cpu: "i5" , dia\_cung: "1TB" , mau\_sac: "Trắng" , can\_nang: "2.0"},

{id:155 ,id\_sp: 155 , ram: "4GB" , cpu: "i7" , dia\_cung: "512GB" , mau\_sac: "Trắng" , can\_nang: "2.5"},

{id:156 ,id\_sp: 156 , ram: "8GB" , cpu: "i3" , dia\_cung: "512GB" , mau\_sac: "Trắng" , can\_nang: "2.3"},

{id:157 ,id\_sp: 157 , ram: "16GB" , cpu: "i5" , dia\_cung: "512GB" , mau\_sac: "Xám" , can\_nang: "1.0"},

{id:158 ,id\_sp: 158 , ram: "4GB" , cpu: "i7" , dia\_cung: "1TB" , mau\_sac: "Đỏ" , can\_nang: "2.3"},

{id:159 ,id\_sp: 159 , ram: "32GB" , cpu: "i3" , dia\_cung: "1TB" , mau\_sac: "Đen" , can\_nang: "2.5"},

{id:160 ,id\_sp: 160 , ram: "32GB" , cpu: "i3" , dia\_cung: "512GB" , mau\_sac: "Đen" , can\_nang: "1.0"},

{id:161 ,id\_sp: 161 , ram: "8GB" , cpu: "i7" , dia\_cung: "256GB" , mau\_sac: "Đen" , can\_nang: "2.0"},

{id:162 ,id\_sp: 162 , ram: "4GB" , cpu: "i3" , dia\_cung: "512GB" , mau\_sac: "Bạc" , can\_nang: "2.0"},

{id:163 ,id\_sp: 163 , ram: "8GB" , cpu: "i5" , dia\_cung: "512GB" , mau\_sac: "Đỏ" , can\_nang: "1.0"},

{id:164 ,id\_sp: 164 , ram: "8GB" , cpu: "i7" , dia\_cung: "512GB" , mau\_sac: "Bạc" , can\_nang: "2.3"},

{id:165 ,id\_sp: 165 , ram: "16GB" , cpu: "i5" , dia\_cung: "1TB" , mau\_sac: "Bạc" , can\_nang: "1.4"},

{id:166 ,id\_sp: 166 , ram: "8GB" , cpu: "i5" , dia\_cung: "512GB" , mau\_sac: "Trắng" , can\_nang: "2.3"},

{id:167 ,id\_sp: 167 , ram: "16GB" , cpu: "i3" , dia\_cung: "256GB" , mau\_sac: "Bạc" , can\_nang: "1.6"},

{id:168 ,id\_sp: 168 , ram: "32GB" , cpu: "i3" , dia\_cung: "1TB" , mau\_sac: "Trắng" , can\_nang: "1.8"},

{id:169 ,id\_sp: 169 , ram: "8GB" , cpu: "i5" , dia\_cung: "512GB" , mau\_sac: "Đỏ" , can\_nang: "1.8"},

{id:170 ,id\_sp: 170 , ram: "32GB" , cpu: "i7" , dia\_cung: "256GB" , mau\_sac: "Bạc" , can\_nang: "1.6"},

{id:171 ,id\_sp: 171 , ram: "32GB" , cpu: "i3" , dia\_cung: "1TB" , mau\_sac: "Xám" , can\_nang: "1.0"},

{id:172 ,id\_sp: 172 , ram: "32GB" , cpu: "i3" , dia\_cung: "256GB" , mau\_sac: "Trắng" , can\_nang: "2.5"},

{id:173 ,id\_sp: 173 , ram: "32GB" , cpu: "i5" , dia\_cung: "256GB" , mau\_sac: "Bạc" , can\_nang: "2.3"},

{id:174 ,id\_sp: 174 , ram: "4GB" , cpu: "i7" , dia\_cung: "512GB" , mau\_sac: "Xám" , can\_nang: "2.0"},

{id:175 ,id\_sp: 175 , ram: "16GB" , cpu: "i7" , dia\_cung: "512GB" , mau\_sac: "Đen" , can\_nang: "1.0"},

{id:176 ,id\_sp: 176 , ram: "32GB" , cpu: "i5" , dia\_cung: "512GB" , mau\_sac: "Trắng" , can\_nang: "1.0"},

{id:177 ,id\_sp: 177 , ram: "16GB" , cpu: "i7" , dia\_cung: "256GB" , mau\_sac: "Trắng" , can\_nang: "2.5"},

{id:178 ,id\_sp: 178 , ram: "32GB" , cpu: "i5" , dia\_cung: "256GB" , mau\_sac: "Xám" , can\_nang: "1.2"},

{id:179 ,id\_sp: 179 , ram: "4GB" , cpu: "i7" , dia\_cung: "256GB" , mau\_sac: "Đen" , can\_nang: "1.8"},

{id:180 ,id\_sp: 180 , ram: "32GB" , cpu: "i3" , dia\_cung: "512GB" , mau\_sac: "Xám" , can\_nang: "1.2"},

{id:181 ,id\_sp: 181 , ram: "4GB" , cpu: "i7" , dia\_cung: "1TB" , mau\_sac: "Trắng" , can\_nang: "2.5"},

{id:182 ,id\_sp: 182 , ram: "16GB" , cpu: "i7" , dia\_cung: "1TB" , mau\_sac: "Trắng" , can\_nang: "2.3"},

{id:183 ,id\_sp: 183 , ram: "32GB" , cpu: "i7" , dia\_cung: "1TB" , mau\_sac: "Bạc" , can\_nang: "1.0"},

{id:184 ,id\_sp: 184 , ram: "32GB" , cpu: "i3" , dia\_cung: "512GB" , mau\_sac: "Xám" , can\_nang: "1.2"},

{id:185 ,id\_sp: 185 , ram: "16GB" , cpu: "i5" , dia\_cung: "256GB" , mau\_sac: "Bạc" , can\_nang: "2.5"},

{id:186 ,id\_sp: 186 , ram: "4GB" , cpu: "i3" , dia\_cung: "512GB" , mau\_sac: "Trắng" , can\_nang: "2.0"},

{id:187 ,id\_sp: 187 , ram: "8GB" , cpu: "i5" , dia\_cung: "512GB" , mau\_sac: "Trắng" , can\_nang: "1.2"},

{id:188 ,id\_sp: 188 , ram: "32GB" , cpu: "i5" , dia\_cung: "256GB" , mau\_sac: "Bạc" , can\_nang: "1.2"},

{id:189 ,id\_sp: 189 , ram: "4GB" , cpu: "i5" , dia\_cung: "256GB" , mau\_sac: "Đen" , can\_nang: "2.5"},

{id:190 ,id\_sp: 190 , ram: "16GB" , cpu: "i5" , dia\_cung: "1TB" , mau\_sac: "Đen" , can\_nang: "2.5"},

{id:191 ,id\_sp: 191 , ram: "32GB" , cpu: "i5" , dia\_cung: "512GB" , mau\_sac: "Đỏ" , can\_nang: "2.0"},

{id:192 ,id\_sp: 192 , ram: "8GB" , cpu: "i3" , dia\_cung: "256GB" , mau\_sac: "Bạc" , can\_nang: "1.6"},

{id:193 ,id\_sp: 193 , ram: "4GB" , cpu: "i7" , dia\_cung: "1TB" , mau\_sac: "Đỏ" , can\_nang: "2.5"},

{id:194 ,id\_sp: 194 , ram: "32GB" , cpu: "i3" , dia\_cung: "256GB" , mau\_sac: "Trắng" , can\_nang: "1.6"},

{id:195 ,id\_sp: 195 , ram: "32GB" , cpu: "i3" , dia\_cung: "256GB" , mau\_sac: "Đen" , can\_nang: "1.8"},

{id:196 ,id\_sp: 196 , ram: "32GB" , cpu: "i5" , dia\_cung: "1TB" , mau\_sac: "Trắng" , can\_nang: "1.2"},

{id:197 ,id\_sp: 197 , ram: "32GB" , cpu: "i5" , dia\_cung: "1TB" , mau\_sac: "Bạc" , can\_nang: "2.5"},

{id:198 ,id\_sp: 198 , ram: "8GB" , cpu: "i3" , dia\_cung: "1TB" , mau\_sac: "Xám" , can\_nang: "2.5"},

{id:199 ,id\_sp: 199 , ram: "16GB" , cpu: "i5" , dia\_cung: "512GB" , mau\_sac: "Đỏ" , can\_nang: "2.5"},

{id:200 ,id\_sp: 200 , ram: "16GB" , cpu: "i7" , dia\_cung: "1TB" , mau\_sac: "Xám" , can\_nang: "2.0"}

];

### Định nghĩa hàm hiện đối tượng

const code\_menu = () => {

  let str:string = ``;

  str+=`<li> <a href="#">Trang chủ</a> </li> `;

  loai\_arr.forEach( loai => str+=`<li> <a href="">${loai.ten\_loai}</a></li>`);

  return `<ul>${str}</ul>`;

} //code\_menu

const code\_1\_sp = (sp:TSanPham) => {

  let str = `

  <div class="sp">

      <div>

          <h3><a href="">${sp.ten\_sp}</a></h3>

          <img src="${sp.hinh}">

          <p>KM : ${Number(sp.gia\_km).toLocaleString("vi")} VNĐ</p>

          <p>Ngày: ${new Date(sp.ngay).toLocaleDateString("vi")}</p>

      </div>

  </div>`;

  return str;

}//code\_1\_sp

const code\_sp\_moi = ( so\_sp ) => {

    let **sp\_arr**:TSanPham[] = san\_pham\_arr.sort(

        function( a:TSanPham, b:TsanPham ){

            let d1 = new Date(a.ngay );

            let d2 = new Date(b.ngay);

            if (d1 < d2) return 1;

            else if (d1 > d2)  return -1;

            else return 0;

        }

    );

    let str:string = "";

**sp\_arr**.slice(0, so\_sp).forEach( sp => str+=code\_1\_sp(sp) );

    return str;

} //code\_sp\_moi

const code\_sp\_xem\_nhieu = (so\_sp  ) => {

    let sp\_arr:TSanPham[] = san\_pham\_arr.sort(

        function(a:TSanPham, b:TSanPham){

            let d1 = a.luot\_xem

            let d2 = b.luot\_xem;

            if (d1 < d2) return 1;

            else if (d1 > d2)  return -1;

            else return 0;

        }

    );

    let str:string = "";

    sp\_arr.slice(0, so\_sp).forEach( sp => str+=code\_1\_sp(sp));

    return str;

} //code\_sp\_xem\_nhieu

const code\_sp\_noi\_bat = (so\_sp ) => {

    let **sp\_noi\_bat\_arr**:TSanPham[] = san\_pham\_arr.filter(

        function(sp:TSanPham){

            if (sp.hot ==1 ) return true; else return false;

        }

    );

    let str:string = "";

**sp\_noi\_bat\_arr**.slice(0, so\_sp).forEach( sp => str+=code\_1\_sp(sp));

    return str;

} //code\_sp\_noi\_bat

### Hiện ra trang web

Tạo file index.html

<!DOCTYPE html> <html>

<head>

    <title> Shop laptop </title>

    <link rel="stylesheet" href="css/app.css">

</head>

<body>

    <nav id="menu"> </nav>

    <main>

        <section id="sp\_noi\_bat" class="list\_sp">

            <h2>Sản phẩm nổi bật</h2>

            <div id="data"></div>

        </section>

        <section id="sp\_moi" class="list\_sp">

            <h2>Sản phẩm mới</h2>

            <div id="data"></div>

        </section>

        <section id="sp\_xem\_nhieu" class="list\_sp">

            <h2>Sản phẩm xem nhiều</h2>

            <div id="data"></div>

        </section>

    </main>

</body>

</html>

<script src="js/app.js"></script>

<script>

    document.querySelector("#menu").innerHTML= code\_menu();

    document.querySelector("#sp\_noi\_bat #data").innerHTML= code\_sp\_noi\_bat(4);

    document.querySelector("#sp\_moi #data").innerHTML= code\_sp\_moi(4);

    document.querySelector("#sp\_xem\_nhieu #data").innerHTML= code\_sp\_xem\_nhieu(4);

</script>

### Định dạng css

\* { padding:0 ; margin: 0 }

a { text-decoration: none}

#menu > ul { list-style: none; display: flex; background-color: darkcyan;}

#menu > ul > li { min-width: 90px ; max-width:150px; padding: 10px 0; text-align: center;}

#menu > ul > li > a {text-decoration: none; color: white ;font-size: 1.2em; font-weight: 600;}

#menu > ul > li > a:hover { color:yellow}

.list\_sp  h2 { background-color: orange; padding: 6px ; color: white}

.list\_sp #data { display: flex; flex-wrap: wrap;}

.list\_sp #data div.sp { width: 25%; }

.list\_sp #data div.sp > div {

    border:1px solid darkcyan;  text-align: center; padding: 10px; font-size: 1.2em;}

.list\_sp #data div.sp > div > h3 { height: 45px; }

.list\_sp #data div.sp > div > img { height: 150px; width: 100%;}

.list\_sp #data div.sp > div > p { margin-top: 10px;}

## Thực tập hiện 1 sản phẩm ra trang theo tham số



### Định nghĩa hàm hiện đối tượng

const code\_show\_1\_sp = (id:number):string => {

    let sp = san\_pham\_arr.find( sp=> sp.id== id);

    if (sp==null) return `Không có sản phẩm ${id}`;

    let tt = thuoc\_tinh\_arr.find( row => row.id\_sp == id);

    if (tt==null) return `Không có thuộc tính của sản phẩm ${id}`;

    let str:string =`

    <div id="thongtinsanpham">

        <div id="colhinh">  <img src="${sp.hinh}"> </div>

        <div id="colsp">

            <div>

                <h3><a href="">${sp.ten\_sp}</a></h3>

                <p>Giá gốc : ${Number(sp.gia).toLocaleString("vi")} VNĐ</p>

                <p>KM : ${Number(sp.gia\_km).toLocaleString("vi")} VNĐ</p>

                <p>Cập nhật : ${new Date(sp.ngay).toLocaleDateString("vi")}</p>

                <p>Lượt xem: ${sp.luot\_xem}</p>

            </div>

        </div>

        <div id="coltt">

             <div>

                <p>RAM : ${tt.ram}</p>

                <p>CPU: ${tt.cpu}</p>

                <p>Cân nặng: ${tt.can\_nang}</p>

                <p>Màu sắc: ${tt.mau\_sac}</p>

                <p>Đĩ cứng: ${tt.dia\_cung}</p>

            </div>

        </div>

    </div>`;

    return str;

} //code\_show\_1\_sp

### Hiện ra trang web

Tạo file chitietsp.html

<!DOCTYPE html> <html>

<head>

    <title> Chi tiết sp </title>

    <link rel="stylesheet" href="css/app.css">

</head>

<body>

    <nav id="menu"> </nav>

    <main>

        <section id="chitietsp">

            <h2>Chi tiết sản phẩm</h2>

            <div id="data"></div>

        </section>

        <section id="splienquan" class="list\_sp">

            <h2>Sản phẩm liên quan</h2>

            <div id="data"> sản phẩm </div>

        </section>

        <section id="binhluan">

            <h2>Bình luận</h2>

            <div id="data"></div>

        </section>

    </main>

</body>

</html>

<script src="js/app.js"></script>

<script>

    const params = new URLSearchParams(location.search);

    const id = Number(params.get("id"));

    document.querySelector("#menu").innerHTML= code\_menu();

    document.querySelector("#chitietsp #data").innerHTML= code\_show\_1\_sp(id);

</script>

### Định dạng css

#chitietsp { width: 100%}

#chitietsp h2 { background-color: orange; padding: 6px ; color: white}

#chitietsp #thongtinsanpham { display: flex; width: 100% }

#chitietsp #colhinh { width: 35%; border: 1px solid darkcyan; }

#chitietsp #colsp { width: 33% ;  border: 1px solid darkcyan; font-size: 1.3em; }

#chitietsp #coltt { width: 32% ; border: 1px solid darkcyan; font-size: 1.3em; }

#chitietsp #colhinh img  { width: 100%; height: 300px; }

#chitietsp #colsp h3 { margin: 15px; font-size: 1.5em;}

#chitietsp #colsp p { margin: 15px}

#chitietsp #coltt p { margin: 15px}

### Tạo liên kết

const code\_1\_sp = (sp:TSanPham) => {

    let str = `

    <div class="sp">

        <div>

            <h3><a href="chitietsp.html?id=${sp.id}">${sp.ten\_sp}</a></h3>

            <img src="${sp.hinh}">

            <p>KM : ${Number(sp.gia\_km).toLocaleString("vi")} VNĐ</p>

            <p>Ngày: ${new Date(sp.ngay).toLocaleDateString("vi")}</p>

        </div>

    </div>`;

    return str;

}