

Furni Shop

I. Introduction

- Author: My name is Nguyen Van Minh Cuong, I am a Senior Student at HaNoi University of science and technology.
- Project: Furni Shop is a practice projects, which help me learn knowledge about Nodejs and SQL.

II. This Project

- My Target:
 - Learn Backend Engineer
 - Learn SQL
 - Learn JS and NodeJS
- Topic
 - A chair store's website

III. Technology

1. Front-end:

- HTML

HTML stands for **Hyper Text Markup Language**.

a set of detailed instructions, usually written on a manuscript to be typeset, concerning style of type, makeup of pages, and the like.

So you can think of HTML as the language used for creating detailed instructions concerning style, type, format, structure and the makeup of a web page before it gets printed (shown to you).

But in the context of web development, we can replace the term ‘printed’ with ‘rendered’ as a more accurate term.

HTML helps you structure your page into elements such as paragraphs, sections, headings, navigation bars, and so on.

- CSS

While HTML is a **markup language** used to format/structure a web page, CSS is a **design language** that you use to make your web page look nice and presentable.

CSS stands for **Cascading Style Sheets**, and you use it to improve the appearance of a web page. By adding thoughtful CSS styles, you make your page more attractive and pleasant for the end user to view and use.

Imagine if human beings were just made to have skeletons and bare bones – how would that look? Not nice if you ask me. So CSS is like our skin, hair, and general physical appearance.

You can also use CSS to layout elements by positioning them in specified areas of your page.

To access these elements, you have to “select” them. You can select a single or multiple web elements and specify how you want them to look or be positioned.

The rules that govern this process are called **CSS selectors**.

With CSS you can set the colour and background of your elements, as well as the typeface, margins, spacing, padding and so much more.

If you remember our example HTML page, we had elements which were pretty self-explanatory. For example, I stated that I would change the color of the level one heading h1 to red.

- JS

Now, if HTML is the **markup language** and CSS is the **design language**, then JavaScript is the **programming language**.

If you don't know what programming is, think of certain actions you take in your daily life:

When you sense danger, you run. When you are hungry, you eat. When you are tired, you sleep. When you are cold, you look for warmth. When crossing a busy road, you calculate the distance of vehicles away from you.

Your brain has been programmed to react in a certain way or do certain things whenever something happens. In this same way, you can program your web page or individual elements to react a certain way and to do something when something else (an event) happens.

You can program actions, conditions, calculations, network requests, concurrent tasks and many other kinds of instructions.

2. Back-end

- Express

Express.js is a fast, flexible and minimalist web framework for Node.js. It's effectively a tool that simplifies building web applications and APIs using JavaScript on the server side. Express is an open-source that is developed and maintained by the Node.js foundation.

Express.js offers a robust set of features that enhance your productivity and streamline your web application. It makes it easier to organize your application's functionality with middleware and routing. It adds helpful utilities to Node HTTP objects and facilitates the rendering of dynamic HTTP objects.

- EJS

EJS Template Engine or EJS is a popular template engine for web development. it is used in Nodejs. It allows you to generate dynamic content by embedding JavaScript to HTML content. EJS serves as a templating language, utilizing plain javascript to HTML. It allows the injection of data into the template on the server side to generate the final HTML output.

- Database

MySQL is an open-source relational database management system (RDBMS) that uses Structured Query Language (SQL) for creating, managing, and interacting with databases. It is widely used for storing and organizing data for web applications, software systems, and other applications.

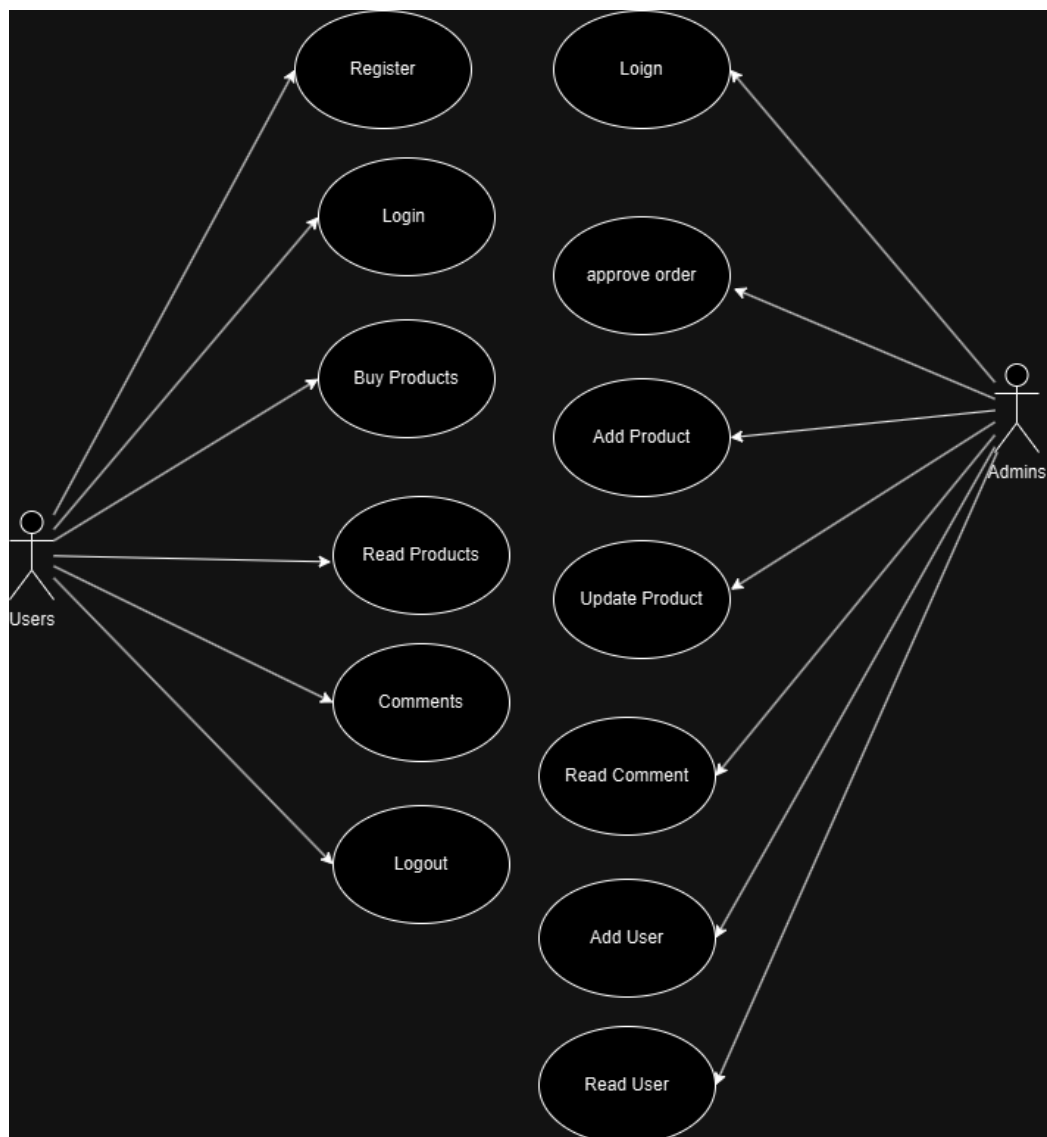
3. Deployment

- Docker

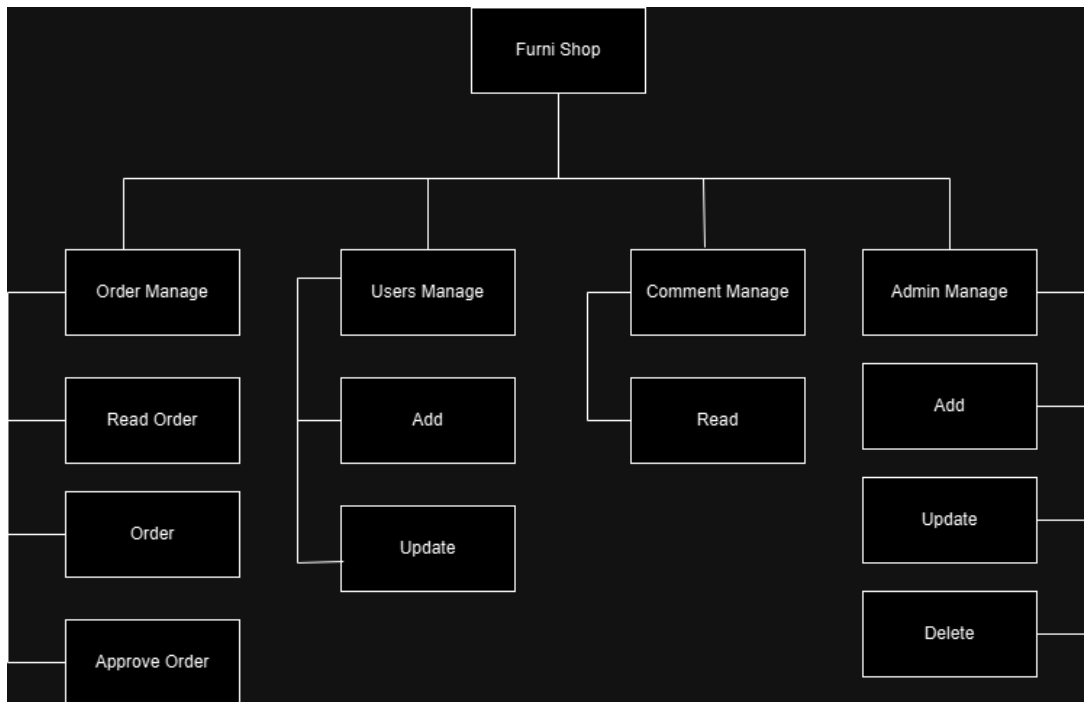
Docker is an open-source platform that enables developers to automate the deployment, scaling, and management of applications using containerization. Containers are lightweight, portable, and self-sufficient units that bundle an application with its dependencies, ensuring consistency across different environments.

IV. Design System:

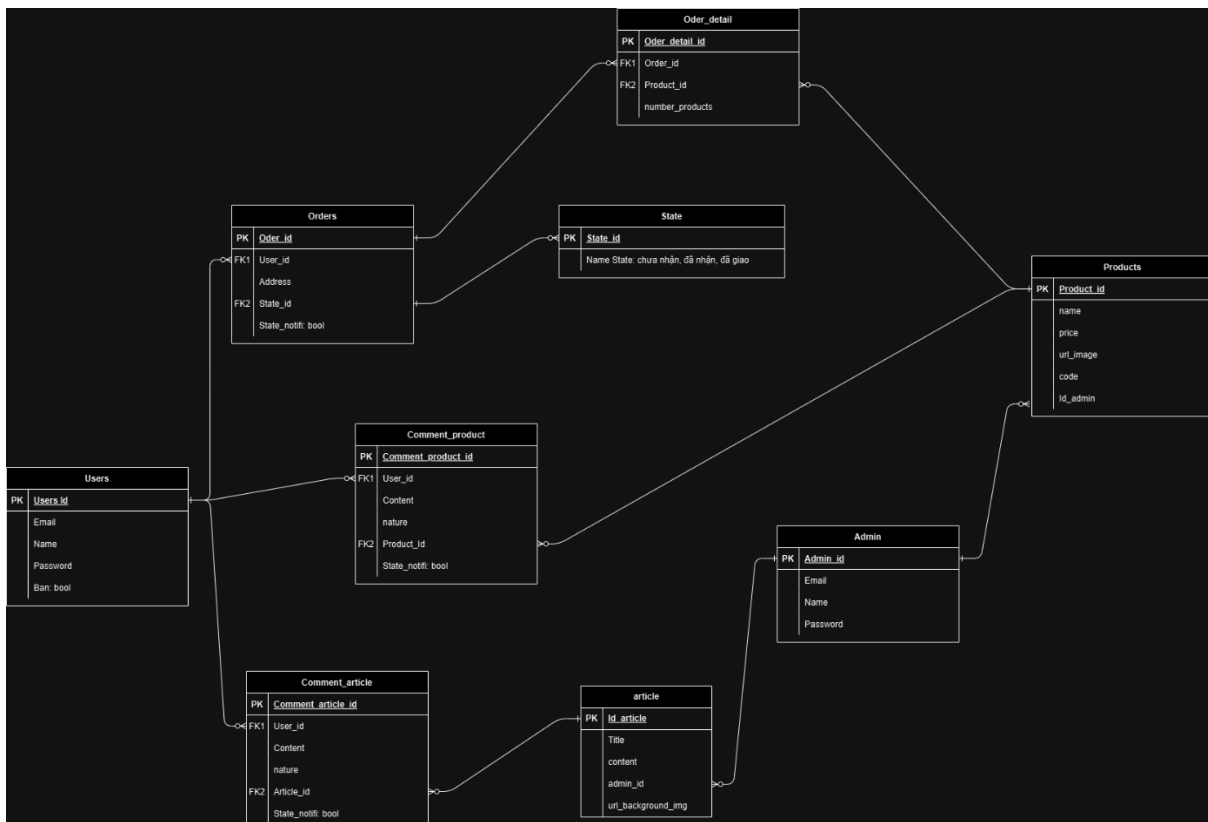
- Use-case:



- Function:



- ERD

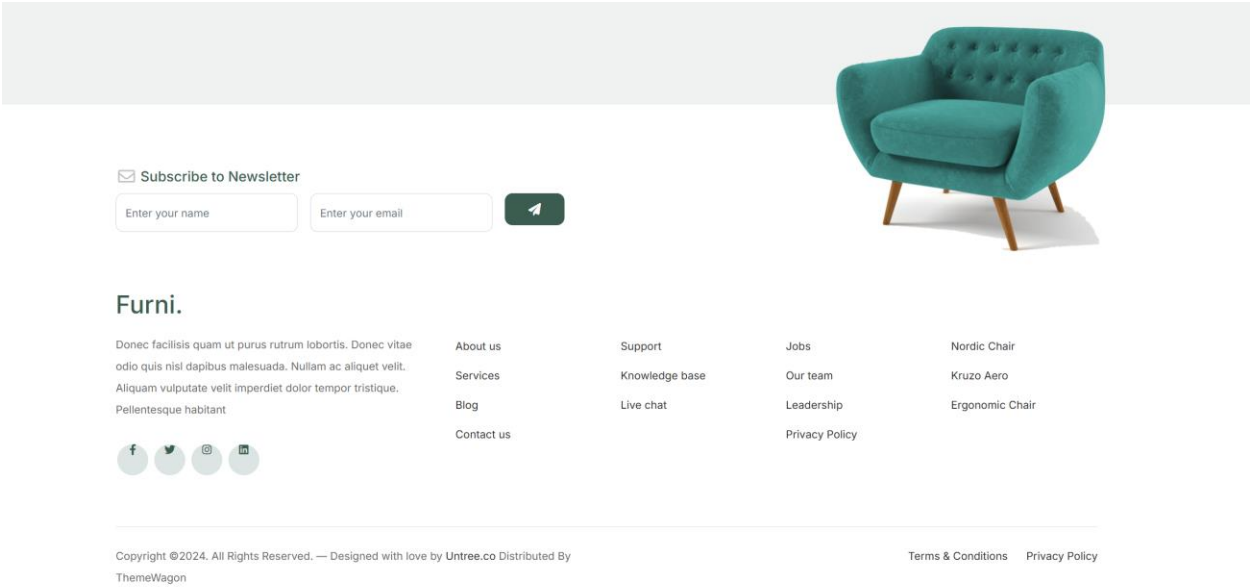


V. UI Design

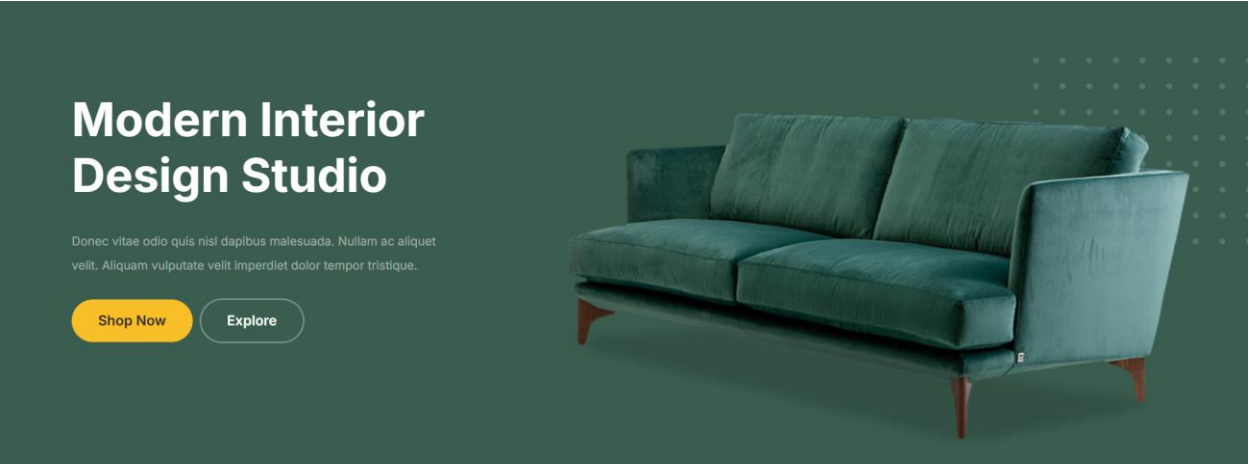
- NavBar




- Footer



- Home – Banner



- Shop



cuong
\$100






table
\$100




a chair 02
\$1000


+



a chair 07
\$899



- Product Detail



SKU: mvcc07




a chair 02

~~\$45.00~~ \$ 1000

1

Add to cart

- Cart

Image	Product	Price	Quantity		Total	Remove
	cuong	100\$	1	Save	100\$	X
	a chair 02	1000\$	1	Save	1000\$	X
	table	100\$	1	Save	100\$	X
<div>Continue Shopping</div>						<div>CART TOTALS</div>
<div>Coupon</div> <div>Enter your coupon code if you have one.</div> <div>Coupon Code</div> <div>Apply Coupon</div>						<div>Total</div> <div>\$1200</div> <div>Proceed To Checkout</div>

- Checkout

Billing Details

Name

cuong_loki

Address *

Street address

Email Address

nguyenvanminhcuong2002@i

Order Notes

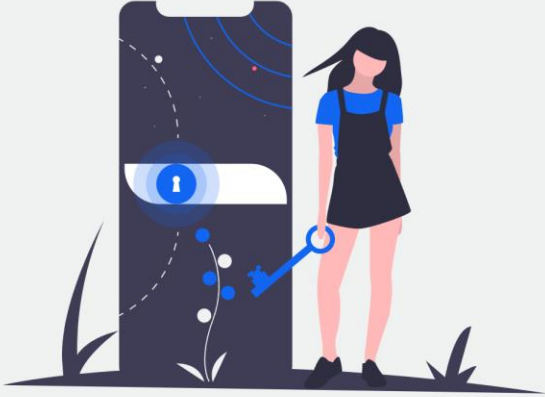
Write your notes here...

Your Order

Product	Total
Top Up T-Shirt x 1	\$250.00
Polo Shirt x 1	\$100.00
Order Total	\$350.00

Place Order

- Login




Login

Email address

Password

Login

- Register



Register

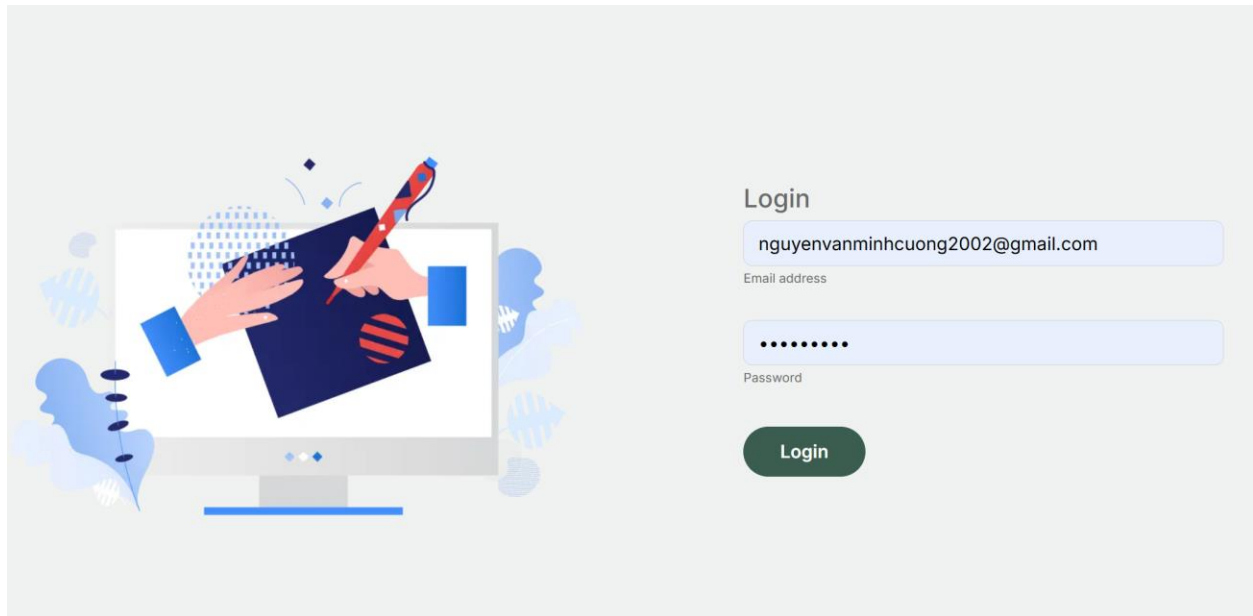
Email address

Name

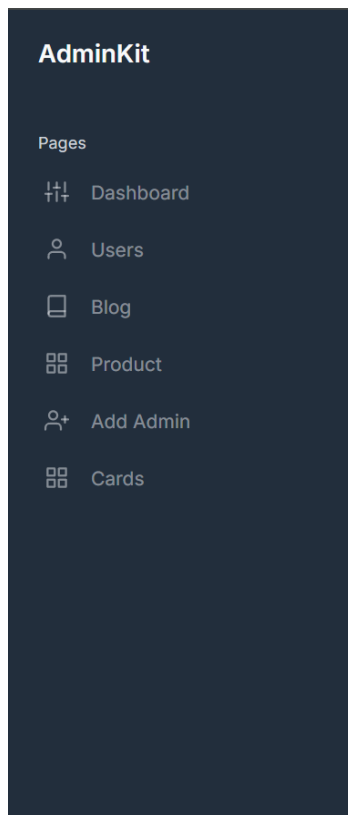
Password

Register

- Admin - login



- Admin – Header



- Admin - user manage

Users

Name	Email	Created At	Udate	Delete	Ban
cuong_loki	nguyenvanminhcuong2002@gmail.com	Thu Nov 07 2024 22:18:53 GMT+0700 (Indochina Time)	<button>Update</button>	<button>Delete</button>	<input type="checkbox"/> Ban

Add Users

Email address

nguyenvanminhcuong2002@gmail.com

We'll never share your email with anyone else.

Name

Enter email

Enter your name

Password

Submit

- Admin – Product manage

Users

Name	Price	code	Admin	Created At	Udate	Delete
cuong	100	mvcc01	admincuong	Sun Nov 10 2024 12:03:29 GMT+0700 (Indochina Time)	<button>Update</button>	<button>Delete</button>
table	100	mvcc02	admincuong	Sun Nov 10 2024 12:29:59 GMT+0700 (Indochina Time)	<button>Update</button>	<button>Delete</button>
a chair 02	1000	mvcc07	admincuong	Tue Nov 19 2024 15:42:31 GMT+0700 (Indochina Time)	<button>Update</button>	<button>Delete</button>
a chair 07	899	mvcc08	admincuong	Tue Nov 19 2024 15:42:55 GMT+0700 (Indochina Time)	<button>Update</button>	<button>Delete</button>

Add Product

Name

Name

Price

Price

Code

code

images

Choose file No file chosen

Submit

- Admin Order manage

Orders

Username	Address	Products details	Created At	Read	Ship	Delete
cuong_loki		<button>Detail</button>	Tue Nov 19 2024 15:46:11 GMT+0700 (Indochina Time)	<button>Read</button>	<button>Ship</button>	<button>Delete</button>

VI. Ending

Thanks for viewing my project, through this project i learned how to use js and express to create a website