Faculty of Information and Communication Technology
ITCS223 Introduction to Web Development

MYKEA

Project Phase II

Summitted by

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Presented to

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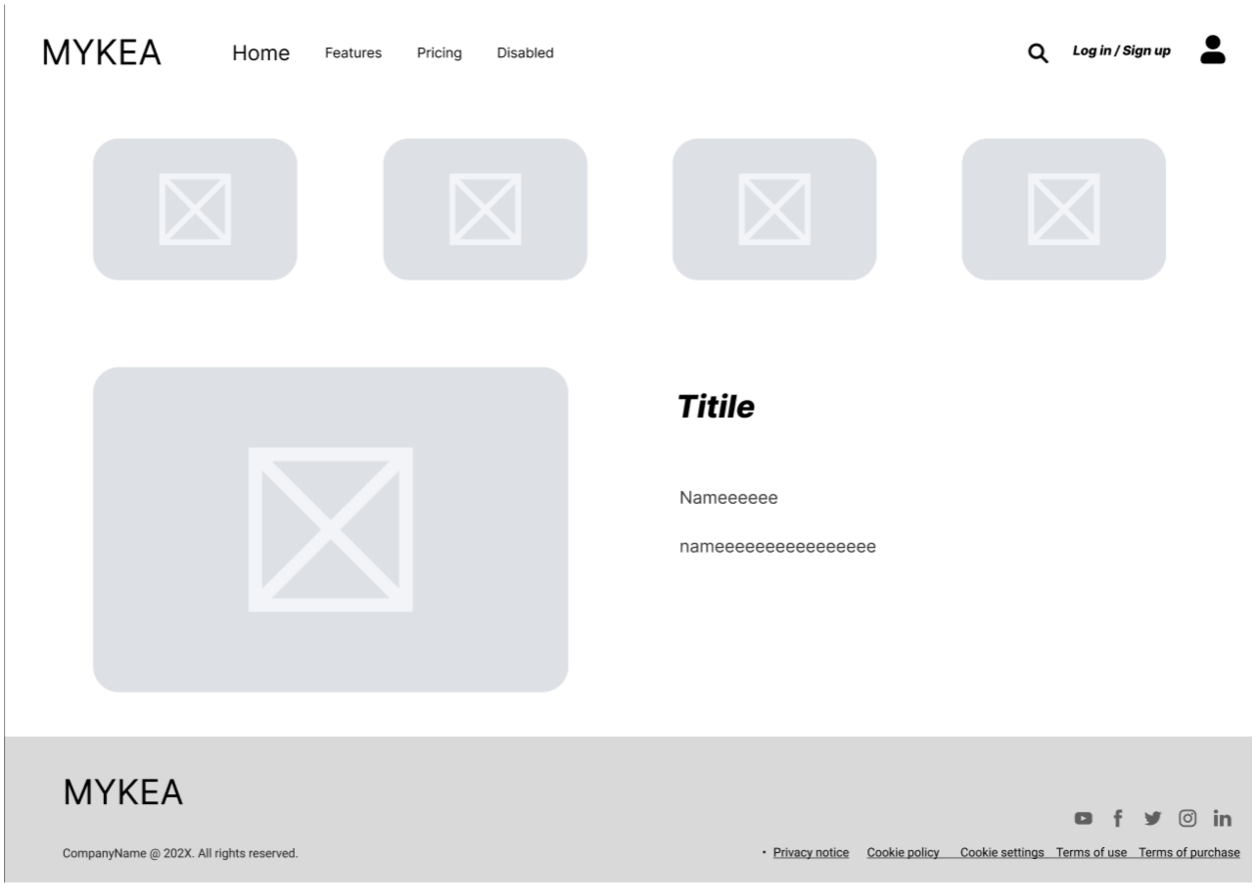
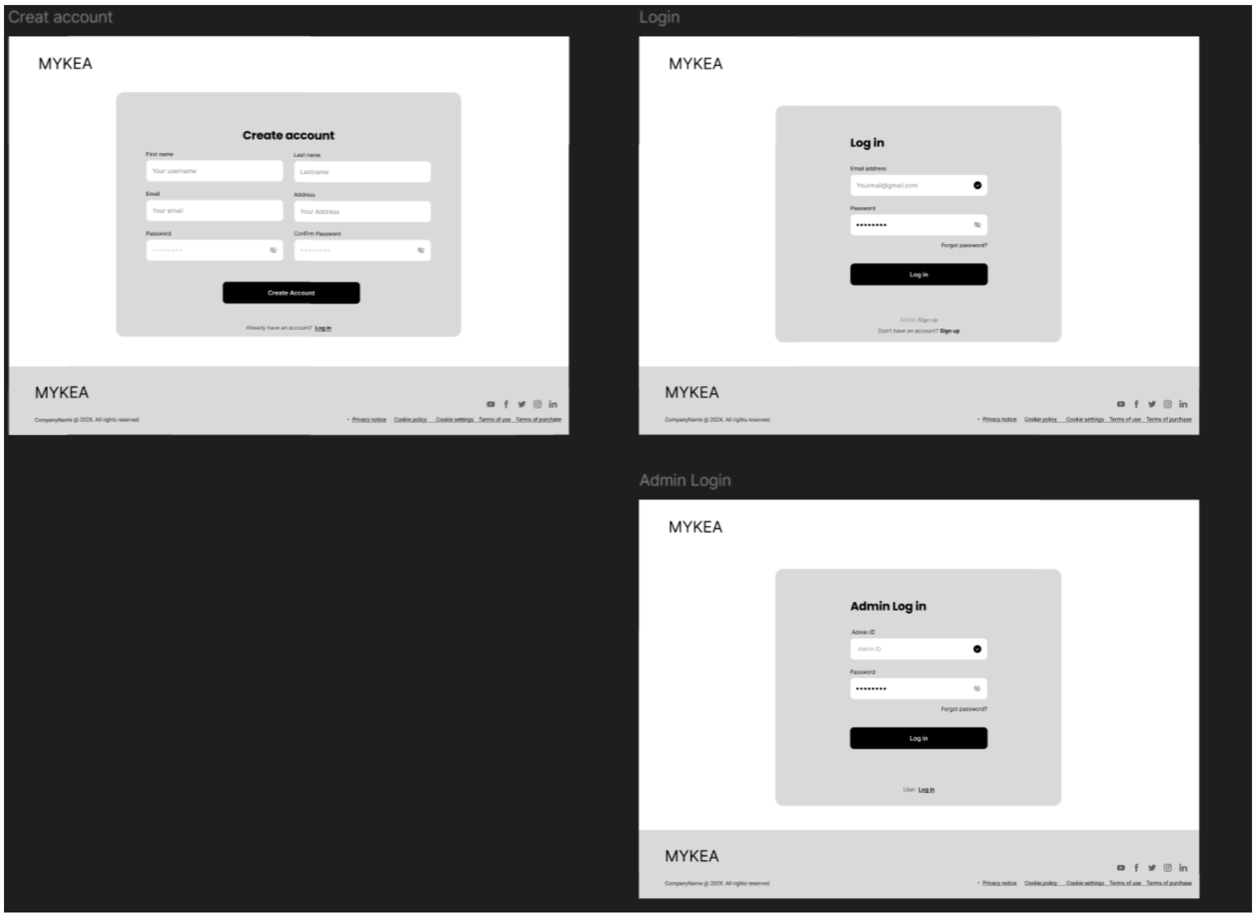
Mahidol University
ITCS223 Introduction to Web Development
26 April 2025

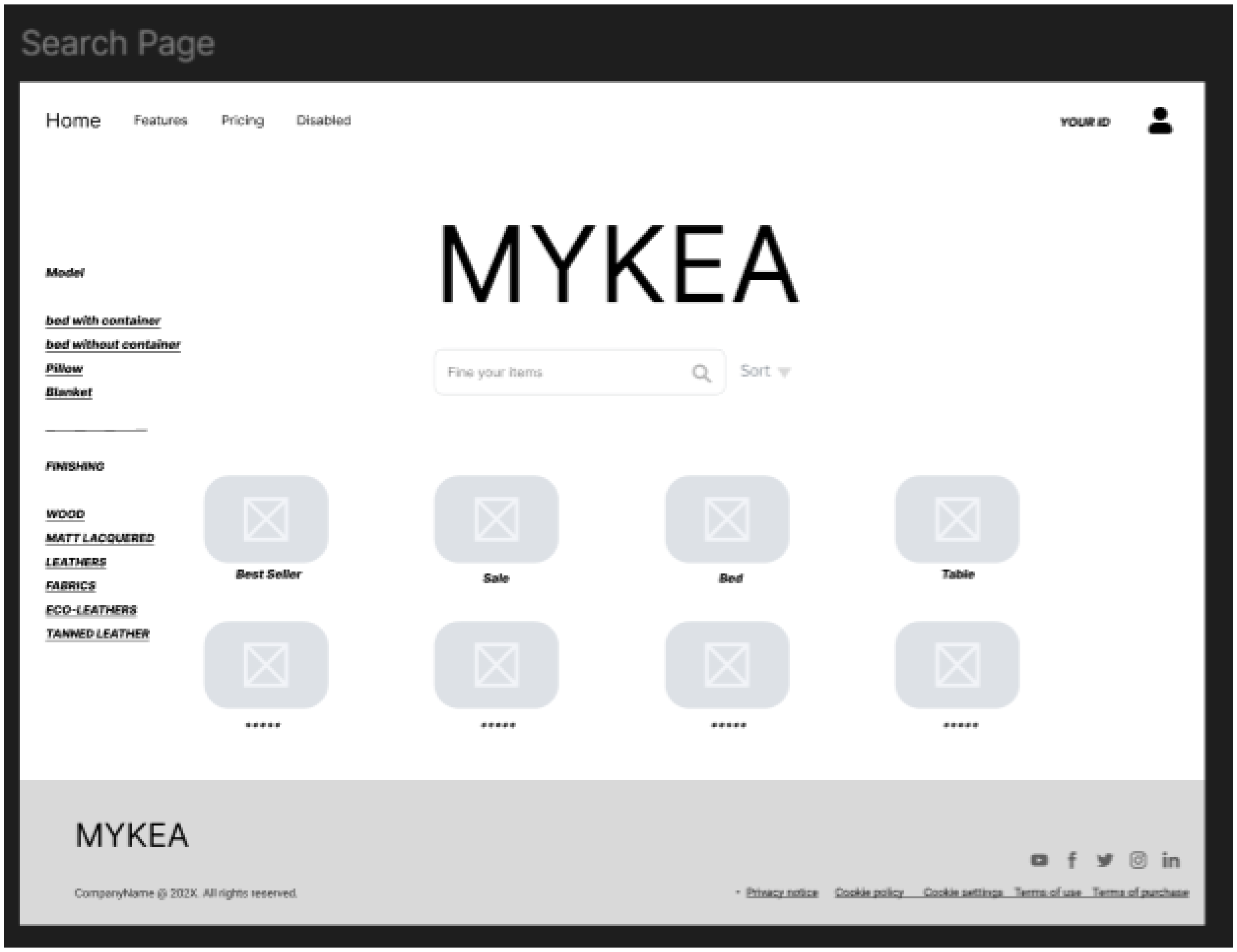
Business Domain

Our business is a Bed and accessories store which focuses on selling bed and bedding from various brands such as Boll & Branch, Coyuchi, Quince, Sijo, Buffy and many more. For our services, we have a website that customers can use for purchasing our products online. Our website contains many features such as a main page for welcoming customers, a log-in page for our customers to keep their purchasing information, product page to show details of our products, search page for customers to search for their products and admin page for our admin to edit the product information, adding and removing products from the website.

Wireframe


MYKEA
Home
Features
Pricing
Disabled
Log in / Sign up
Titile
Nameeeeee
nameeeeeeeeeeeeeeee
MYKEA
CompanyName @ 202X. All rights reserved.
Privacy notice
Cookie policy
Cookie settings
Terms of use
Terms of purchase


Creat account
MYKEA
Create account
First name
Your username
Last name
Lastname
Email
Your email
Address
Your Address
Password
Confirm Password
Create Account
Already have an account? Log in
MYKEA
CompanyName @ 202X. All rights reserved.
Privacy notice
Cookie policy
Cookie settings
Terms of use
Terms of purchase
Login
MYKEA
Log in
Email address
Yourmail@gmail.com
Password
Forgot password?
Log in
Admin Sign up
Don't have an account? Sign up
MYKEA
CompanyName @ 202X. All rights reserved.
Privacy notice
Cookie policy
Cookie settings
Terms of use
Terms of purchase
Admin Login
MYKEA
Admin Log in
Admin ID
Admin ID
Password
Forgot password?
Log in
User Log in
MYKEA
CompanyName @ 202X. All rights reserved.
Privacy notice
Cookie policy
Cookie settings
Terms of use
Terms of purchase


Search Page
Home
Features
Pricing
Disabled
YOUR ID
MYKEA
Model
bed with container
bed without container
Pillow
Blanket
FINISHING
WOOD
MATT LACQUERED
LEATHERS
FABRICS
ECO-LEATHERS
TANNED LEATHER
Fine your items
Sort
Best Seller
Sale
Bed
Table
*****
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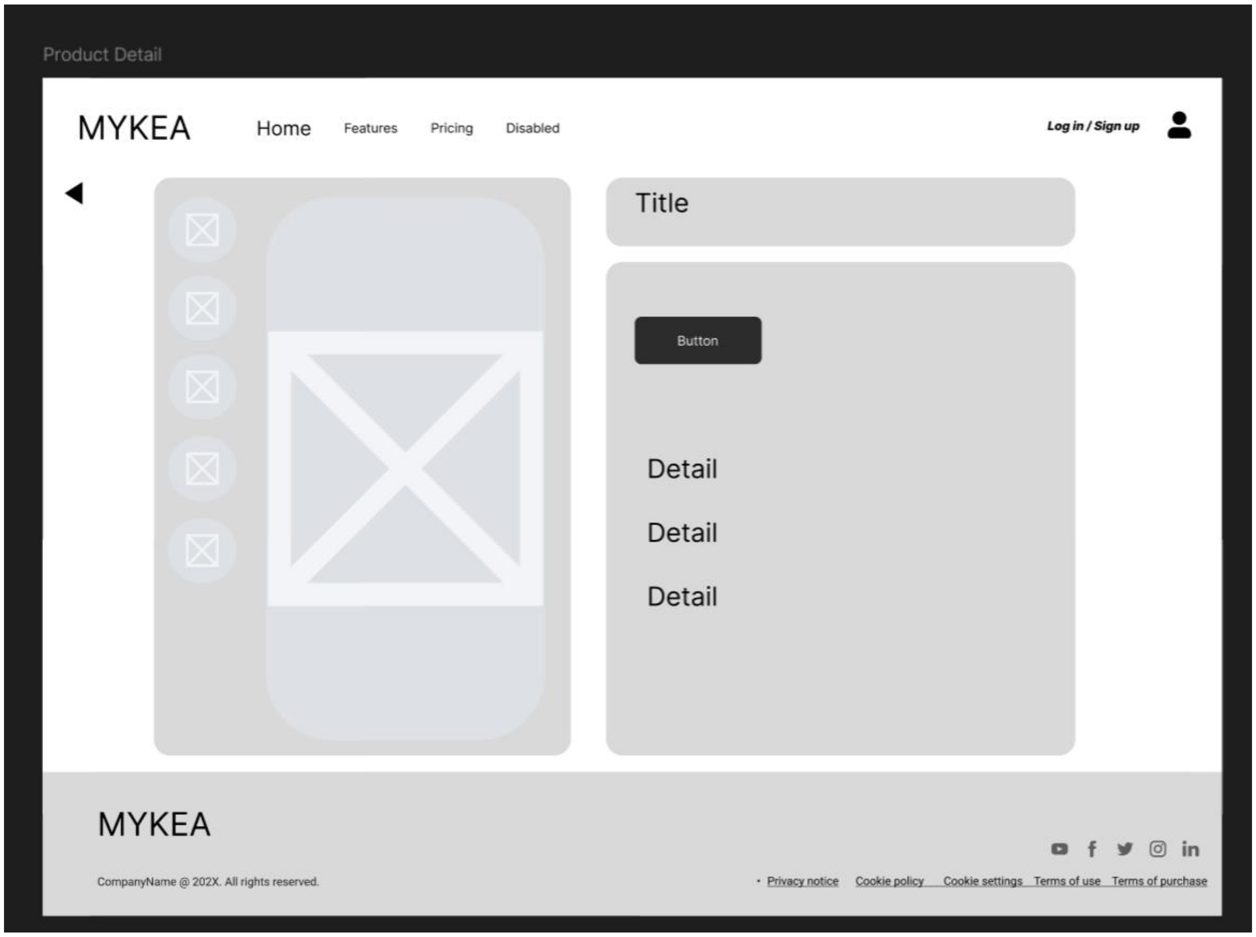
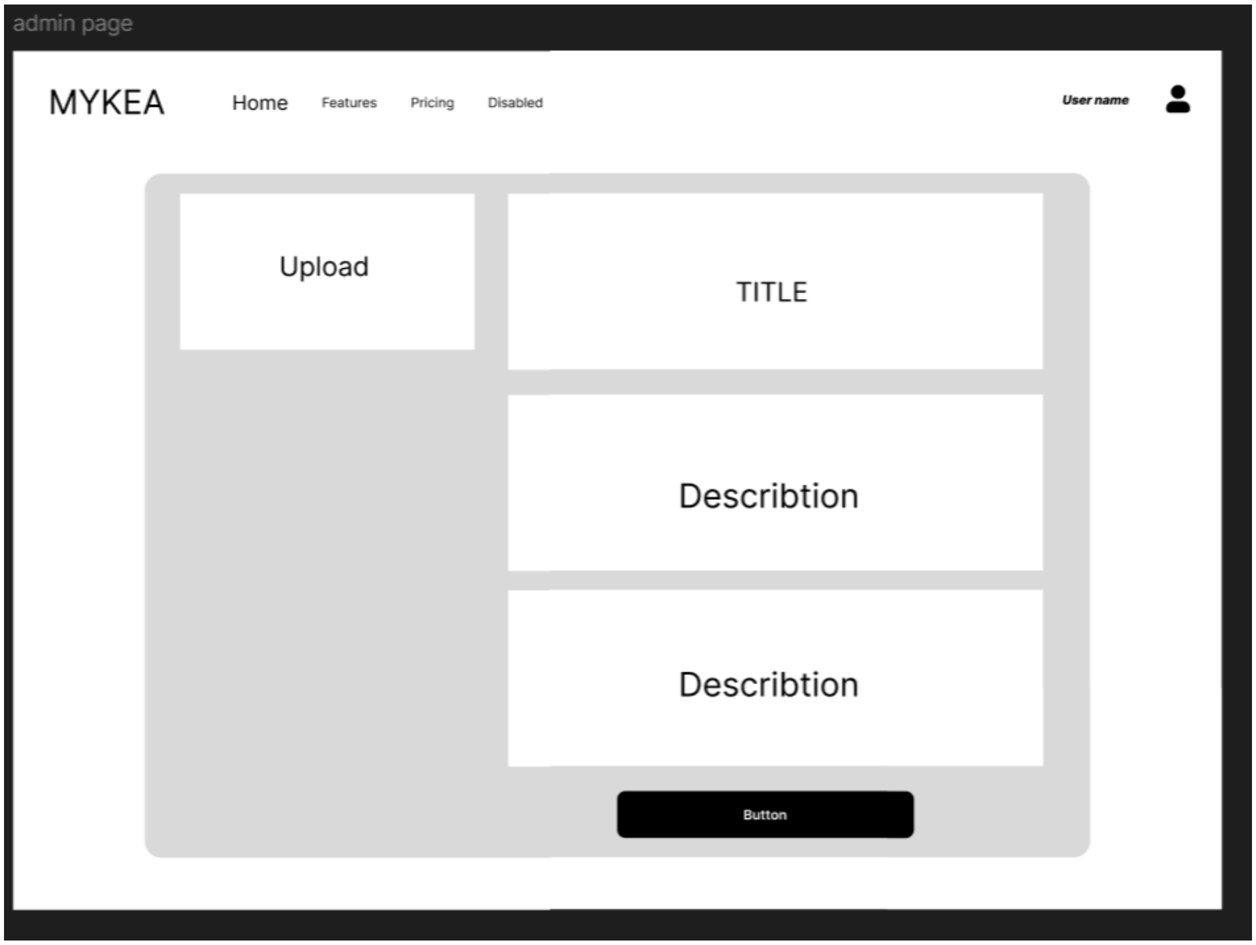
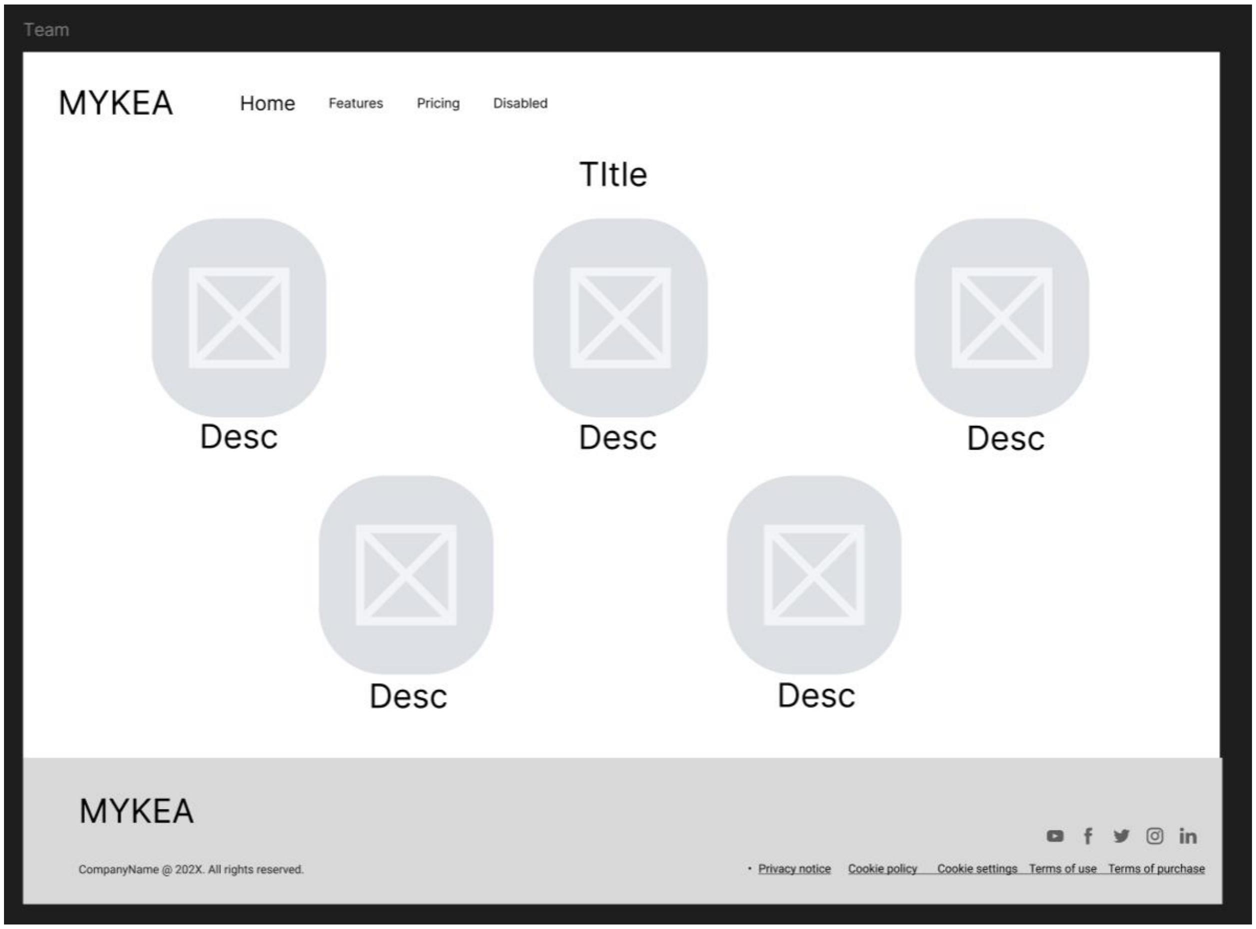
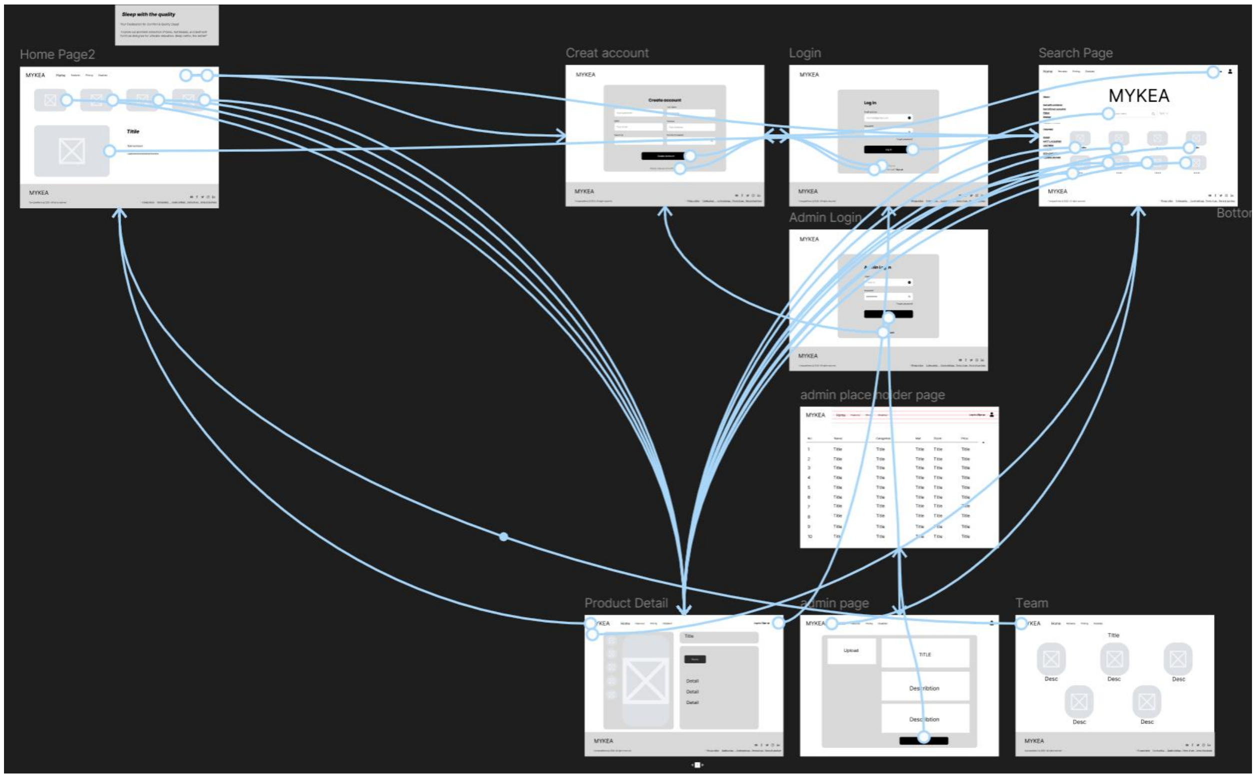
MYKEA
CompanyName @ 202X. All rights reserved.
Privacy notice
Cookie policy
Cookie settings
Terms of use
Terms of purchase


Product Detail
MYKEA
Home
Features
Pricing
Disabled
Log in / Sign up
Title
Button
Detail
Detail
Detail
MYKEA
CompanyName @ 202X. All rights reserved.
Privacy notice
Cookie policy
Cookie settings
Terms of use
Terms of purchase


admin page
MYKEA
Home
Features
Pricing
Disabled
User name
Upload
TITLE
Describtion
Describtion
Button

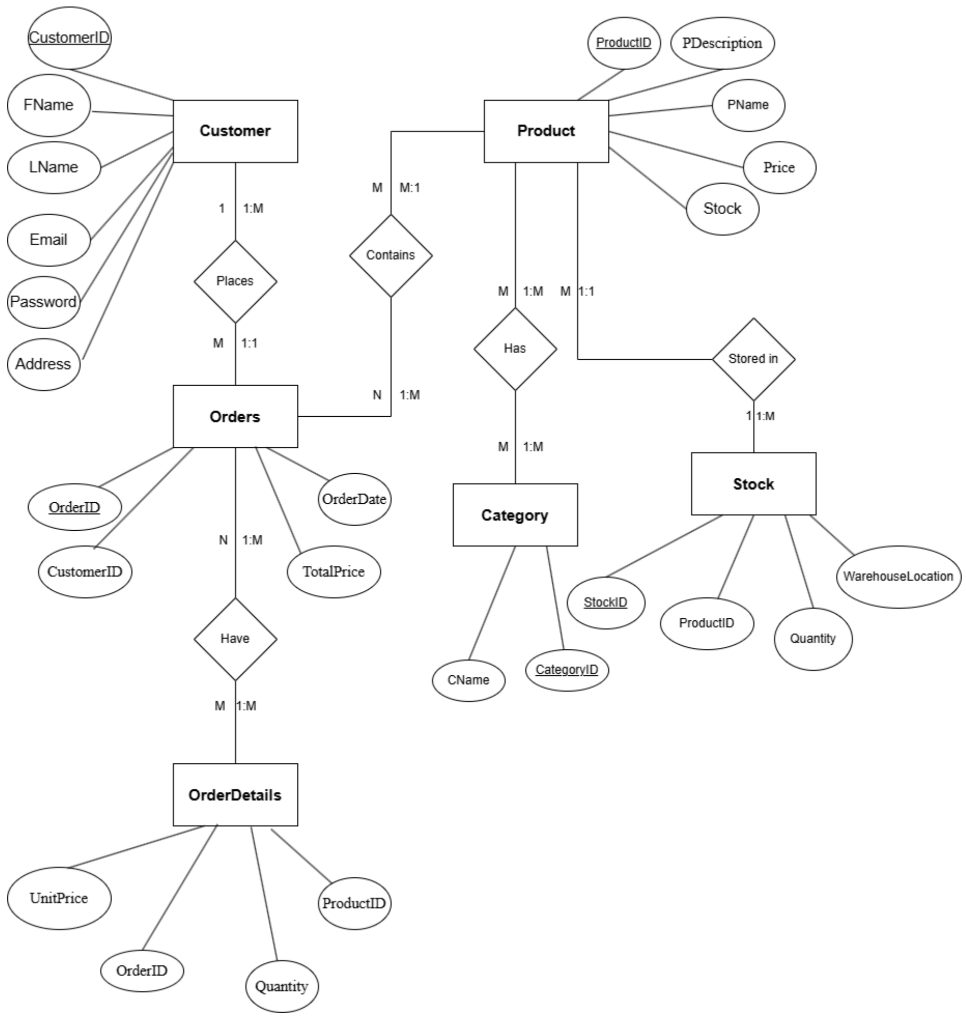

Team
MYKEA
Home
Features
Pricing
Disabled
TItle
Desc
Desc
Desc
Desc
Desc
MYKEA
CompanyName @ 202X. All rights reserved.
Privacy notice
Cookie policy
Cookie settings
Terms of use
Terms of purchase

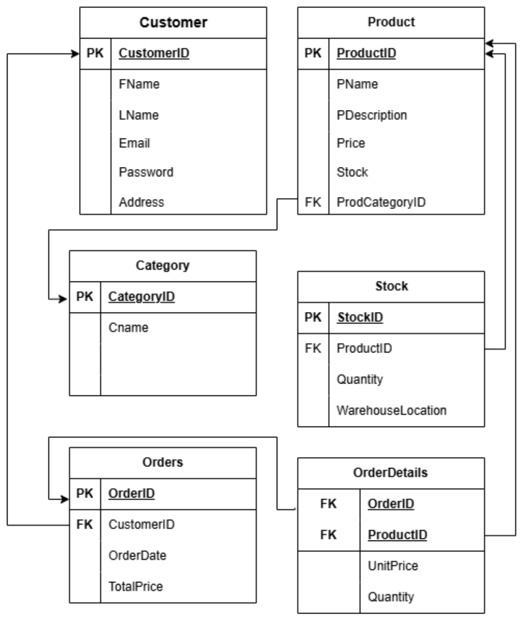


Sleep with the quality
Home Page2
MYKEA
Title
Creat account
Create account
Login
Log in
Search Page
MYKEA
Admin Login
admin place holder page
Product Detail
Detail
Detail
Detail
admin page
Upload
TITLE
Description
Description
Team
Title
Desc
Desc
Desc
Desc
Desc
Bottom

Data Model

Entity Relationship Diagram & Relational Schema





Customer	
PK	CustomerID
	FName
	LName
	Email
	Password
	Address

Product	
PK	ProductID
	PName
	PDescription
	Price
	Stock
FK	ProdCategoryID

Category	
PK	CategoryID
	Cname

Stock	
PK	StockID
FK	ProductID
	Quantity
	WarehouseLocation

Orders	
PK	OrderID
FK	CustomerID
	OrderDate
	TotalPrice

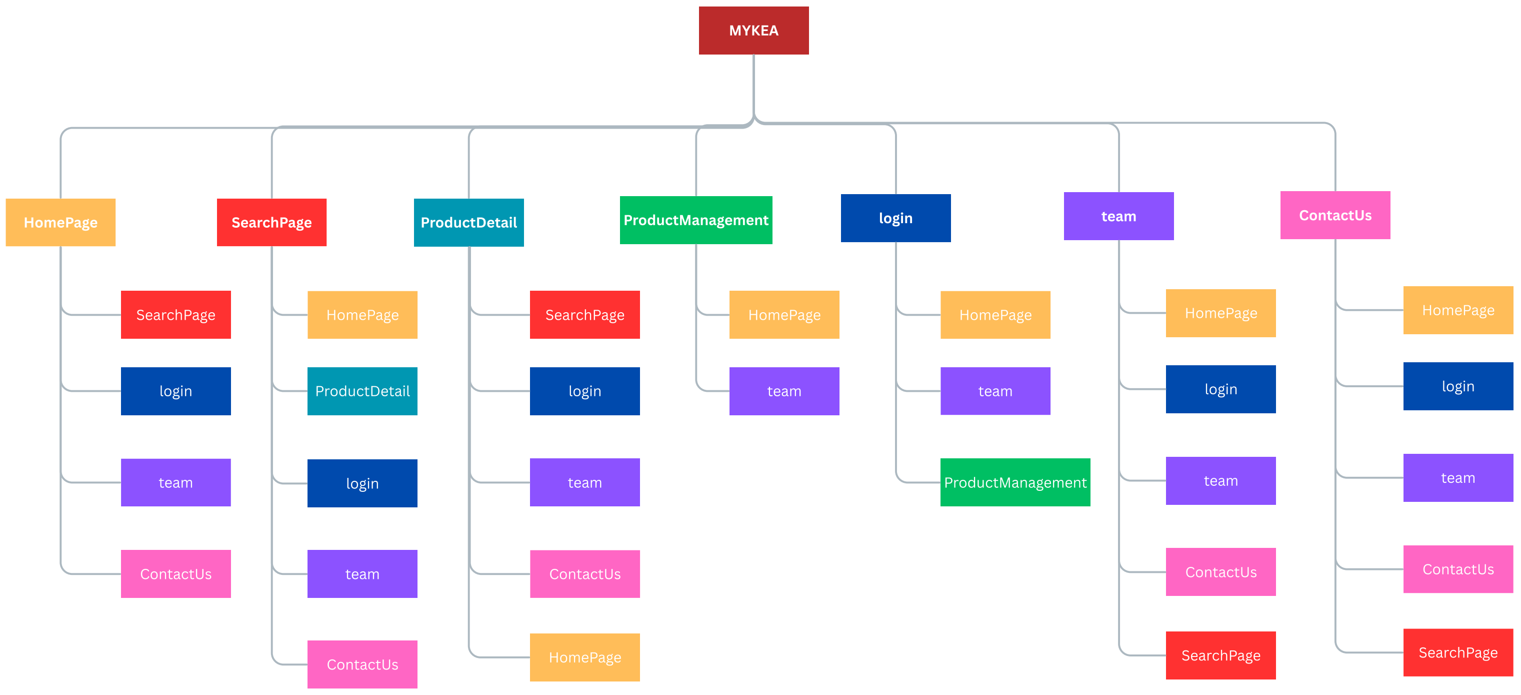
OrderDetails	
FK	OrderID
FK	ProductID
	UnitPrice
	Quantity

Data Dictionary

Table Name	Attribute Name	Description	Data Type	Data Format	Field Size	Key	FK Reference Table
Customer	CustomerID	Unique ID for customer	VARCHAR	XXXXX	10	PK	
	FName	Customer's first name	VARCHAR	XXXXX	50		
	LName	Customer's last name	VARCHAR	XXXXX	50		
	Email	Customer's email	VARCHAR	X@X.com	50		
	Password	Customer's sPassword	VARCHAR	XXXXX	255		
	Address	Shipping address	VARCHAR	XXXXX	255		
Product	ProductID	Unique product ID	VARCHAR	XXXXX	10	PK	
	PName	Product name	VARCHAR	XXXXX	100		
	PDescription	Product details	TEXT	XXXXX			
	Price	Product price	DECIMAL (10,2)	XXXXX.XX			
	Stock	Available stock quantity	INT	XXXXX	100		
	ProdCategoryID	Category ID	VARCHAR	X	100	FK	CategoryID [Category]
Stock	StockID	Unique stock ID	VARCHAR	XXXXX	10	PK	
	ProductID		VARCHAR	XXXXX	100	FK	ProductID [Product]

	Quantity		**INT**	**XXXXX**	**100**		
	Warehouse Location		**VARCHAR**	**XXXXX**	**100**		
Category	**CategoryID**	**Unique category ID**	**VARCHAR**	**X**	**100**	**PK**	
	CName	**Category name**	**VARCHAR**	**XXXXX**	**50**		
Orders	**OrderID**	**Unique order ID**	**VARCHAR**	**XXXXX**	**10**	**PK**	
	CustomerID	**Unique ID for customer**	**VARCHAR**	**XXXXX**	**10**	**FK**	**CustomerID [Customer]**
	OrderDate	**Date of order**	**DATE**	**YYYY-MM-DD**			
	TotalPrice	**Total cost**	**DECIMAL (10,2)**	**XXXXX.XX**			
OrderDetails	**UnitPrice**	**Product price per piece**	**DECIMAL (10,2)**	**XXXXX.XX**	**50**		
	OrderID	**Unique order ID**	**VARCHAR**	**XXXXX**	**50**	**FK**	**OrderID [Orders]**
	ProductID	**Unique product ID**	**VARCHAR**	**XXXXX**	**50**	**FK**	**ProductID [Product]**
	Quantity	**Quantity ordered**	**INT**	**XXXX**	**-**		

Navigation Diagram of web application



Detail of our Website Application and Website Service

1. Import crucial modules

```
const express = require('express');
const path = require('path');
const dotenv = require("dotenv");
```

- These codes import crucial modules that will make servers work like
- **express -** providing tools for routing, handling request and response.
- **path -** provides utilities for working with file and directory paths.
- **dotenv -** load configuration settings from .env file.

2. Setting Up express

```
app.use(router)
dotenv.config();

app.use('/front-end', express.static(path.join(__dirname, 'front-end')));
app.use('/asset', express.static(path.join(__dirname, 'asset')));

router.use(express.json());
router.use(express.urlencoded({ extended: true}));

app.listen(process.env.PORT, function () {
    console.log("Server listening at Port "
    + process.env.PORT);});
```

1. **app.use(router);**
   it will handle any incoming requests to the router object
2. **dotenv.config();**
   it executes the config function from the .env file

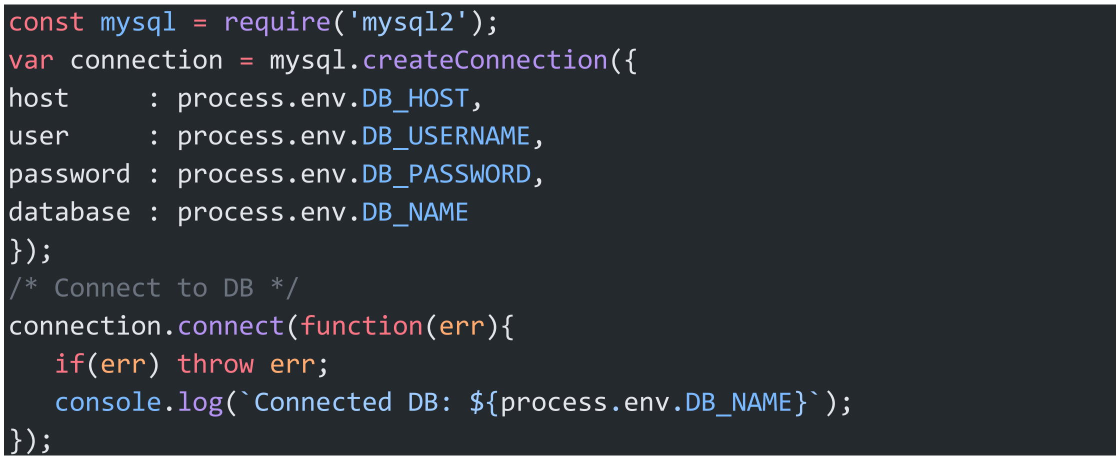
3. **app.use('/front-end', express.static(path.join(__dirname, 'front-end')));**
   It tells the server to serve static files (like HTML, CSS, JS, and images) from specific folders on the server, in this case is (‘front-end’).

4. **app.use('/asset', express.static(path.join(__dirname, 'asset')));**
   It tells the server to serve static files (like HTML, CSS, JS, and images) from specific folders on the server, in this case is (‘asset’).

5. **router.use(express.json());**
   router.use(express.urlencoded({ extended: true}));
   These two lines equip the router with the ability to automatically understand and process data sent in the *body* of incoming requests, whether that data is in JSON format or URL, this makes the data readily available in req.body.

6. **app.listen();**
   method in an Express.js application starts the server and makes it listen for incoming connections on a specified network port.

3. Setup/Connect to the database



```
const mysql = require('mysql2');
var connection = mysql.createConnection({
host     : process.env.DB_HOST,
user     : process.env.DB_USERNAME,
password : process.env.DB_PASSWORD,
database : process.env.DB_NAME
});
/* Connect to DB */
connection.connect(function(err){
   if(err) throw err;
   console.log(`Connected DB: ${process.env.DB_NAME}`);
});
```

- First, we import the MySQL modules, next we set up the details needed to connect to a MySQL database by using .env to keep sensitive credentials like username and password out of the source code itself, and error handling the connection.

4. Setup Routing

```
//Login
router.get(['/Login'], (req, res) => {
   console.log("Request at " + req.url);
   res.sendFile(path.join(`${__dirname}/front-end/html/login.html`))
});

//HomePage
router.get(['/', '/HomePage'], (req, res) => {
    console.log("Request at " + req.url);
    res.sendFile(path.join(`${__dirname}/front-end/html/HomePage.html`))
});

//SearchPage
router.get('/SearchPage', (req, res) => {
    console.log("Request at " + req.url);
    res.sendFile(path.join(`${__dirname}/front-end/html/SearchPage.html`))
});

//ProductDetail
router.get('/ProductDetail', (req, res) => {
    console.log("Request at " + req.url);
    res.sendFile(path.join(`${__dirname}/front-end/html/ProductDetail.html`))
});

//ProductManagement
router.get('/ProductManagement', (req, res) => {
   console.log("Request at " + req.url);
   res.sendFile(path.join(`${__dirname}/front-end/html/ProductManagement.html`))
});

//OurTeam
router.get('/OurTeam', (req, res) => {
    console.log("Request at " + req.url);
    res.sendFile(path.join(`${__dirname}/front-end/html/Team.html`))
});

//Contact
router.get('/Contact-Us', (req, res) => {
   console.log("Request at " + req.url);
   res.sendFile(path.join(`${__dirname}/front-end/html/Contact-Us.html`))
});
```

- This code is about setting up the routing of our website such as if user go to (‘/’, ‘/Hompage’) it will send HomePage.html or if user go to (‘/SearchPage’) it will send SearchPage.html and log the req.url.

5. Route for handling login attempts

```
router.post('/api/login', (req, res) => { … });
```

- This code is a Api endpoint (‘/api/login’) to handle login attempts via HTTP post request
  1. It extracts the email and password sent in the request body.
  2. It performs basic validation to ensure both email and password are provided.
  3. It queries a database (user table) to find a user matching the provided email.
  4. It checks for the database error or if the user was not found.
  5. It directly compares the submitted plain text password with the plain text password (pwd) stored in the database.
  6. Checking whether the password match or not match, if match send back the 200 status and set the success to be true, if not match send back 401 status and set the success to be false.

6. Setup CRUD operations

1. Select all products

```
router.get('/product', function (req, res){
   connection.query(`SELECT * FROM product`, function (error,
results) {
      if(results.length ==0){
         return res.status(400).send({error: true, message: 'Your
database didnt have any data.'})
      }
      else{
         console.log(`${results.length} rows returned`);
         return res.send({error: false, data: results, message:
'Select All Products successfully.'});
      }
   });
});
```

-This is an Api endpoint (‘/product’) that handles HTTP GET requests. When client sends a GET request to (‘/product’), the code executes an SQL query to select all data from the product table in the database, if no products are found send back an error response, if products are found, sends back the data and JSON response.

2. Select product by product code or category name

```
router.get('/product/:ProductCodeOrCatName', function (req, res){
   let product_CodeOrCatName = req.params.ProductCodeOrCatName;
   console.log(`Searching for: ${product_CodeOrCatName}`);
   const query = `SELECT * FROM product WHERE product_code = ? OR 
category3_code LIKE ?`;
      connection.query(query, [product_CodeOrCatName, 
product_CodeOrCatName + '%'], function (error, results) {
         if(results.length == 0){
            return res.status(400).send({error: true, message: 
'Please Provide product code or category name.'})
         }
         console.log(`${results.length} rows returned`);
            return res.send({error: false, data: results, message: 
'Select Product successfully.'});
      });
});
```

-This is an Api endpoint that handles HTTP GET requests to (‘/product/’) followed by a specific value (‘/product/SomeCode’ , ‘/product/SomeCategory’) designed to Select product by specific value. First it take the value provided in the URL after (‘/product/’) and it perform database query then query search for rows where either ‘product_code’ column or the ‘category3_code’ column and handling errors then send back the matching products and the JSON response back.

3. Insert product

```
router.post('/product', function (req, res){
    let product = req.body.product;
    console.log(product);
    if(!product){
       return res.status(400).send({error: true, message: 'Please
Provide product information'})
    }

    connection.query(`INSERT into product SET ?`, [product],
function (error, results) {
       if(error){
         throw error;
       }
       console.log(`New Product has been inserted`);
       return res.send({error: false, data: results.affectedRows,
message: 'Product has been inserted successfully.'});
    });

 });
```

- This is an Api endpoint that handles HTTP POST requests to ('/product/'), designed to add a new product to the database. First it expects the client to send product data within request body then extract this product object from the request body, next validate the product , and execute SQL insert query to add new row to the product table, then handling errors and send back JSON response.

4. Update product

```
router.put('/product', function (req,res){
    let PreviousProduct_code = req.body.product.product_code;
    let NewProduct = req.body.newProduct;

    if (!PreviousProduct_code || !NewProduct){
       return res.status(400).send({error: true, message: 'Please
Provide Product information'})
    }

    connection.query(`UPDATE product SET ? WHERE product_code = ?`,
[NewProduct, PreviousProduct_code], function (error, results) {
       if(error){
         throw error;
       }
       console.log(`Product has been updated`);
       return res.send({error: false, data: results.affectedRows,
message: `Product has been updated successfully.`});
    });

 });
```

- This is an Api endpoint that handles HTTP PUT requests to (‘/product/’), designed to update the existing product. First it get the product code of the product that want to update then get the new information for new product then handling error, next execute SQL update query then handling error, if success send back the JSON response.

5. Delete product

```
router.delete('/product', function (req,res){
    let product_code = req.body.product.product_code;

    if (!product_code){
       return res.status(400).send({error: true, message: 'Please
provide product_code'})
    }

    connection.query(`DELETE FROM product WHERE product_code = ?`,
[product_code], function (error, results) {
       if(error){
         throw error;
       }
       console.log(`The product code ${product_code} has been
deleted.`);
       return res.send({error: false, data: results.affectedRows,
message: `The Product id ${product_code} has been deleted
successfully.`});
    });
 });
```

- This is an Api endpoint that handles HTTP DELETE requests to (‘/product/’), designed to delete a product from the database. First it gets the product code of the product that want to delete then handling error, next execute SQL delete query then handling error, if success send back the JSON response.

7. Client-Side

Styling & interaction (Boostrap, swiper)

- We use Boostrap for easy styling, bootstrap provides a lot of complete structures like card, nav, etc. so it can shorten working time,
  and for swiper to make an interaction sliding image and have the next and previous button for home page.

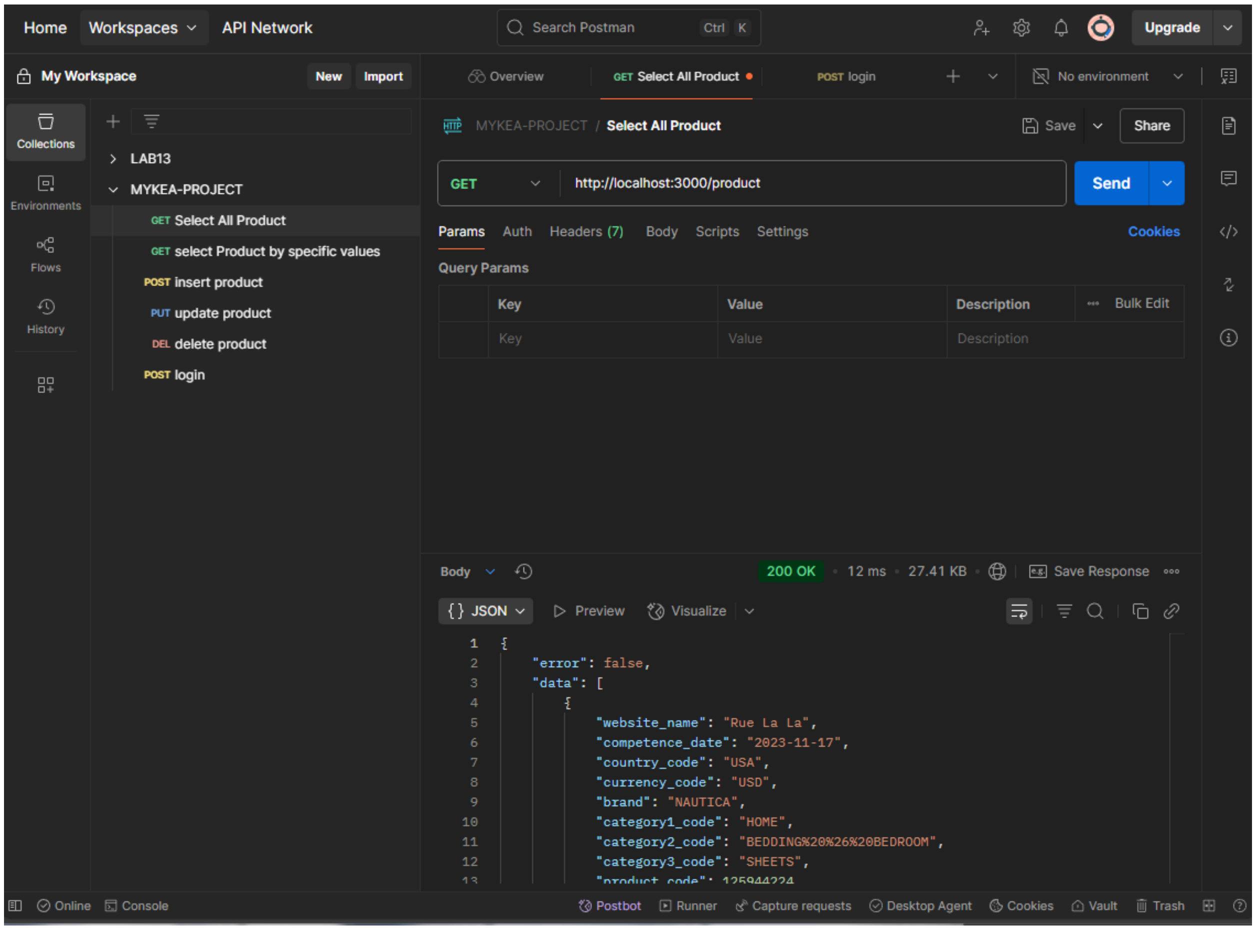
8. Public API

-our website use Longdo map, it an online web mapping service and platform that primarily focused on Thai, it provides many features such as zoom bar and the Pin. We use it to display our company location in Contact us page.

- **Link: Longdo Map API**

The testing results of web services using Postman or any program for testing web service

1. Select all products



GET http://localhost:3000/product

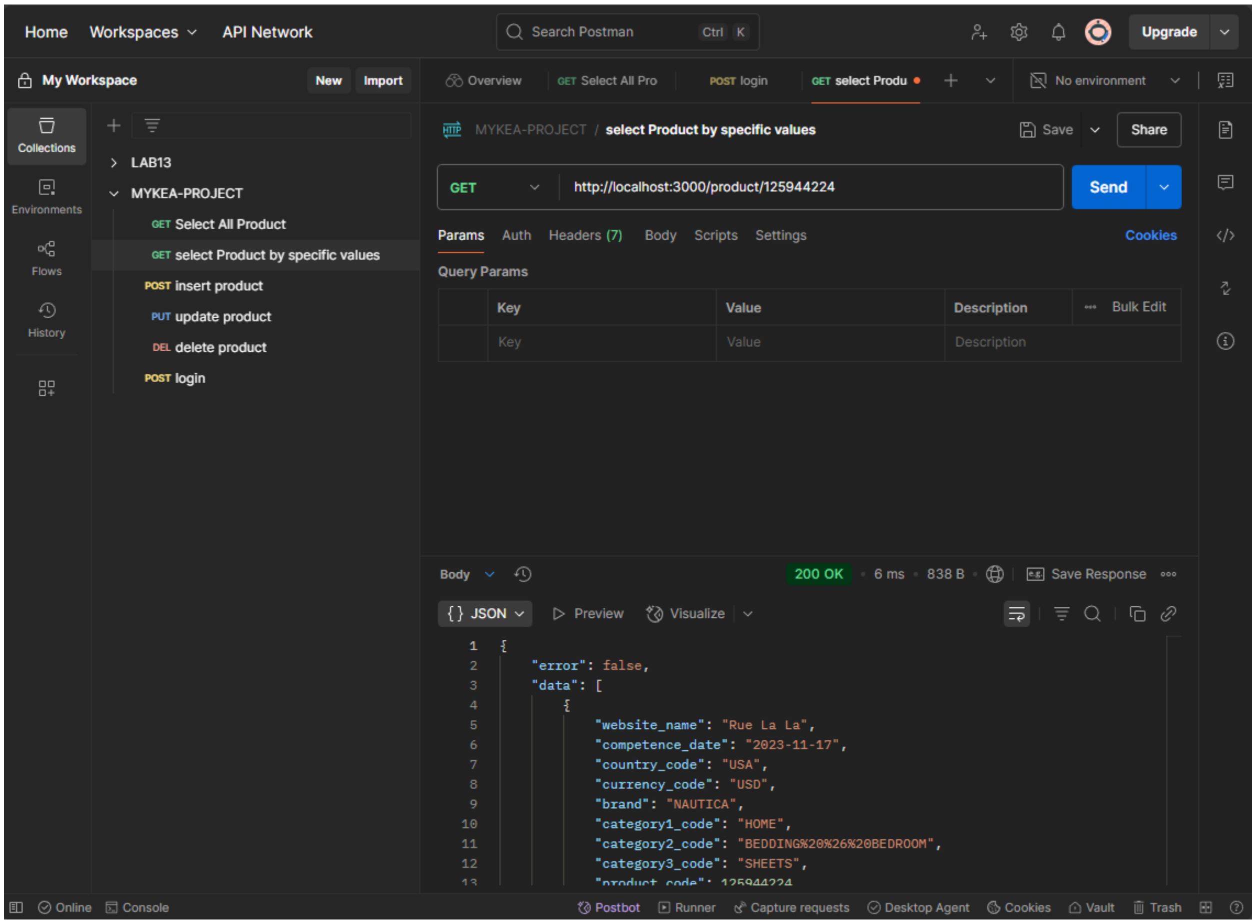
200 OK • 12 ms • 27.41 KB

```
{
    "error": false,
    "data": [
        {
            "website_name": "Rue La La",
            "competence_date": "2023-11-17",
            "country_code": "USA",
            "currency_code": "USD",
            "brand": "NAUTICA",
            "category1_code": "HOME",
            "category2_code": "BEDDING%20%26%20BEDROOM",
            "category3_code": "SHEETS",
            "product_code": 125944224
```

```
//Testing Select all products
//method: GET
//URL: http://localhost:3000/product
//body: raw JSON
{
   "error": false,
   "data": [
      {
         "website_name": "Rue La La",
         "competence_date": "2023-11-17",
         "country_code": "USA",
         "currency_code": "USD",
         "brand": "NAUTICA",
         "category1_code": "HOME",
         "category2_code": "BEDDING%20%26%20BEDROOM",
         "category3_code": "SHEETS",
         "product_code": 125944224,
         "title": "Nautica T200 Solid 4Pc Grey Sheet Set",
         "itemurl":
"https://www.ruelala.com/boutique/product/159137/125944224/",
         "imageurl":
"http://asset1.ruecdn.com/images/product/303394/3033948560_RLLDTH_1.jpg"
,
         "full_price": 80,
         "price": 39,
         "full_price_eur": 73.8,
         "price_eur": 35.97,
         "flg_discount": "1"
      }, … (other 49 results),

      "message": "Select All Products successfully."
}
```

2. Select product by specific values

Test Case 1 (product_code):



MYKEA-PROJECT / select Product by specific values

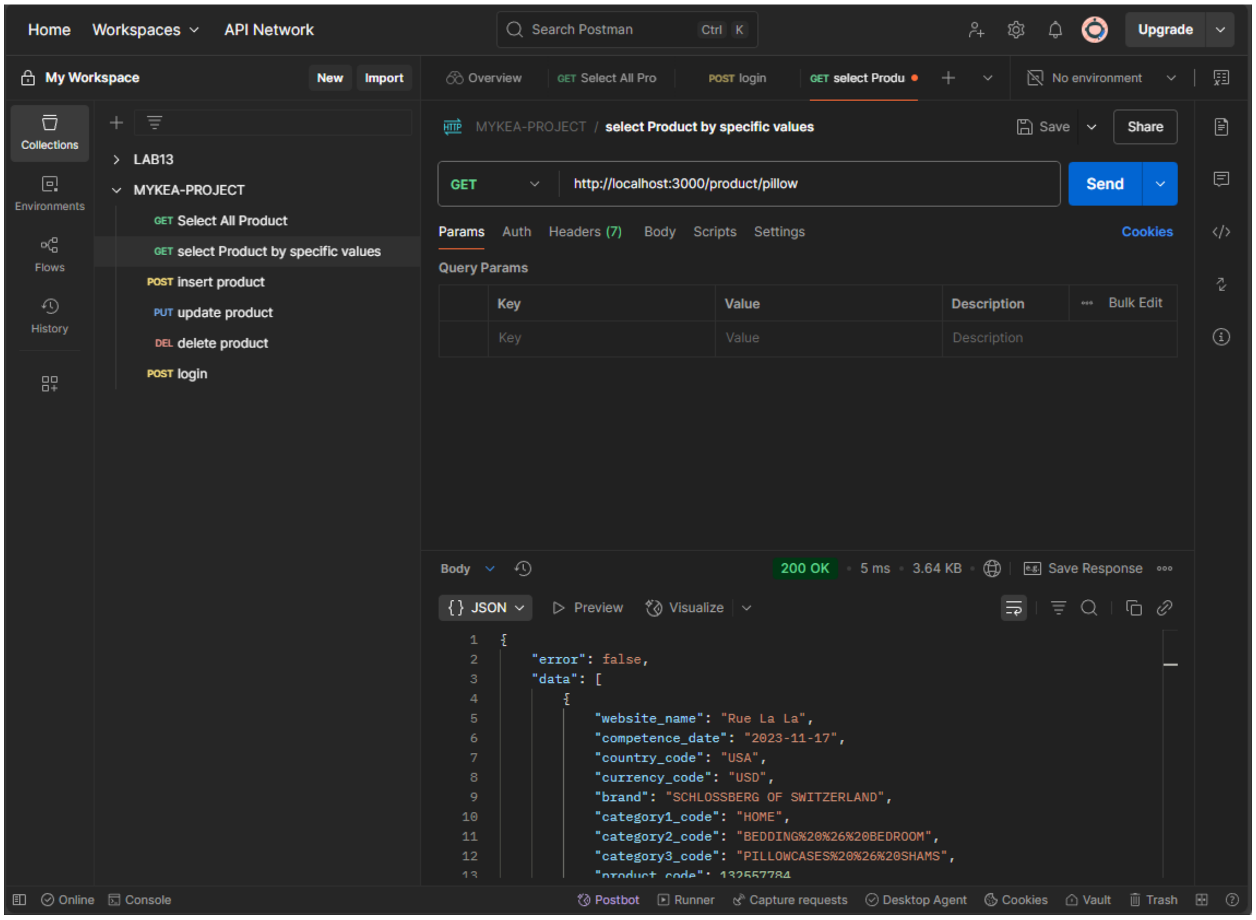
GET http://localhost:3000/product/125944224

200 OK · 6 ms · 838 B

```
{
    "error": false,
    "data": [
        {
            "website_name": "Rue La La",
            "competence_date": "2023-11-17",
            "country_code": "USA",
            "currency_code": "USD",
            "brand": "NAUTICA",
            "category1_code": "HOME",
            "category2_code": "BEDDING%20%26%20BEDROOM",
            "category3_code": "SHEETS",
            "product_code": 125944224
```

```
//Testing Select product by specific values (product_code)
//method: GET
//URL: http://localhost:3000/product/125944224
//body: raw JSON
{
    "error": false,
    "data": [
        {
            "website_name": "Rue La La",
            "competence_date": "2023-11-17",
            "country_code": "USA",
            "currency_code": "USD",
            "brand": "NAUTICA",
            "category1_code": "HOME",
            "category2_code": "BEDDING%20%26%20BEDROOM",
            "category3_code": "SHEETS",
            "product_code": 125944224,
            "title": "Nautica T200 Solid 4Pc Grey Sheet Set",
            "itemurl":
"https://www.ruelala.com/boutique/product/159137/125944224/",
            "imageurl":
"http://asset1.ruecdn.com/images/product/303394/3033948560_RLLDTH_1.jpg"
,
            "full_price": 80,
            "price": 39,
            "full_price_eur": 73.8,
            "price_eur": 35.97,
            "flg_discount": "1"
        }
    ],
    "message": "Select Product successfully."
}
```

Test Case 2 (Category name):



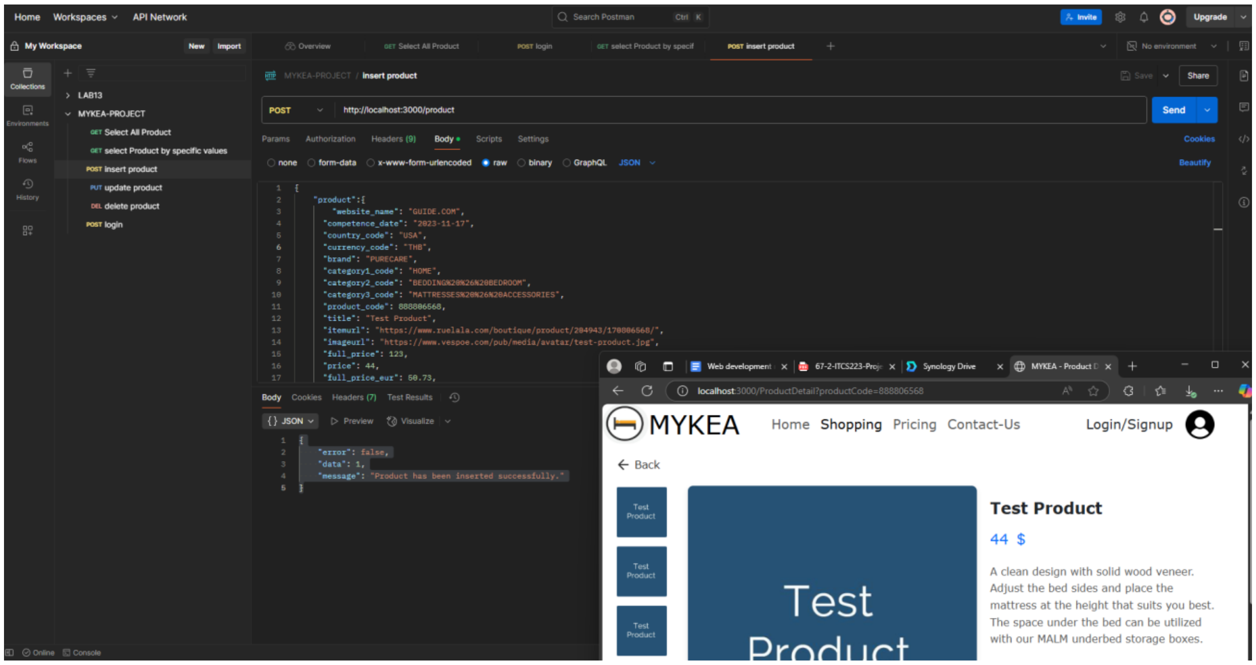
GET http://localhost:3000/product/pillow

```
{
    "error": false,
    "data": [
        {
            "website_name": "Rue La La",
            "competence_date": "2023-11-17",
            "country_code": "USA",
            "currency_code": "USD",
            "brand": "SCHLOSSBERG OF SWITZERLAND",
            "category1_code": "HOME",
            "category2_code": "BEDDING%20%26%20BEDROOM",
            "category3_code": "PILLOWCASES%20%26%20SHAMS",
            "product_code": 132557784
```

```
//Testing Select product by specific values (category3_code)
//method: GET
//URL: http://localhost:3000/product/pillow
//body: raw JSON
(I decrease the data inside “data” to decrease the amount of text for you to easily
see, i will show what important to check (run this before insert, update, delete
anything to be the same result.)  )
{
    "error": false,
    "data": [
        {
            "category3_code": "PILLOWCASES%20%26%20SHAMS",
            "product_code": 132557784,
        },

          . . . ,

         {
            "category3_code": "PILLOW%20INSERTS",
            "product_code": 180650918,
        }
    ],
    "message": "Select Product successfully."
}
```

3. Insert product

Test Case 1:



POST http://localhost:3000/product

```
{
    "product":{
        "website_name": "GUIDE.COM",
      "competence_date": "2023-11-17",
      "country_code": "USA",
      "currency_code": "THB",
      "brand": "PURECARE",
      "category1_code": "HOME",
      "category2_code": "BEDDING%20%26%20BEDROOM",
      "category3_code": "MATTRESSES%20%26%20ACCESSORIES",
      "product_code": 888806568,
      "title": "Test Product",
      "itemurl": "https://www.ruelala.com/boutique/product/204943/170806568/",
      "imageurl": "https://www.vespoe.com/pub/media/avatar/test-product.jpg",
      "full_price": 123,
      "price": 44,
      "full_price_eur": 50.73,
```

```
{
    "error": false,
    "data": 1,
    "message": "Product has been inserted successfully."
}
```

localhost:3000/ProductDetail?productCode=888806568

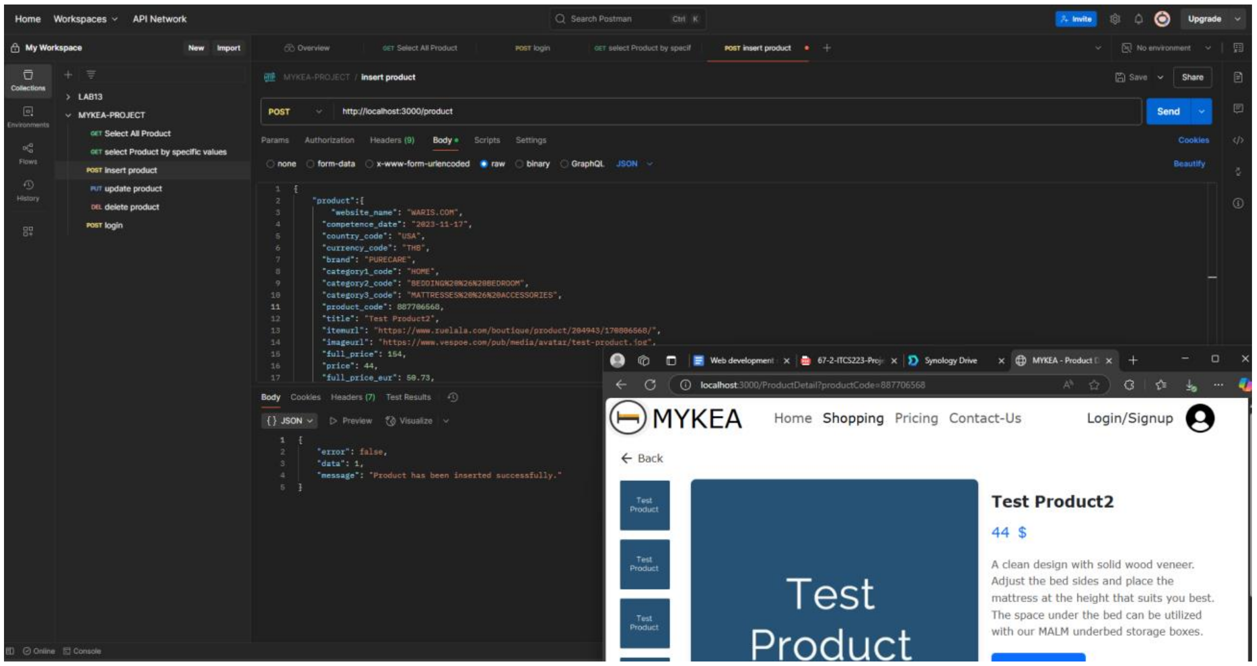
Test Product

44 $

A clean design with solid wood veneer. Adjust the bed sides and place the mattress at the height that suits you best. The space under the bed can be utilized with our MALM underbed storage boxes.

```
//Testing insert product
//method: POST
//URL: http://localhost:3000/product
//body: raw JSON

Client sent this:
        {
          "product":{
             "website_name": "GUIDE.COM",
            "competence_date": "2023-11-17",
            "country_code": "USA",
            "currency_code": "THB",
            "brand": "PURECARE",
            "category1_code": "HOME",
            "category2_code": "BEDDING%20%26%20BEDROOM",
            "category3_code":
        "MATTRESSES%20%26%20ACCESSORIES",
            "product_code": 888806568,
            "title": "Test Product",
            "itemurl":
        "https://www.ruelala.com/boutique/product/204943/170806568/",
            "imageurl": "https://www.vespoe.com/pub/media/avatar/test-
        product.jpg",
            "full_price": 123,
            "price": 44,
            "full_price_eur": 50.73,
            "price_eur": 40.59,
            "flg_discount": "1"
          }
        }

Response:
        {
          "error": false,
          "data": 1,
          "message": "Product has been inserted successfully."
        }
```

Test Case 2:



POST http://localhost:3000/product

Body: raw JSON

```
{
    "product":[
        "website_name": "WARIS.COM",
      "competence_date": "2023-11-17",
      "country_code": "USA",
      "currency_code": "THB",
      "brand": "PURECARE",
      "category1_code": "HOME",
      "category2_code": "BEDDING%20%26%20BEDROOM",
      "category3_code": "MATTRESSES%20%26%20ACCESSORIES",
      "product_code": 887706568,
      "title": "Test Product2",
      "itemurl": "https://www.ruelala.com/boutique/product/204943/170806568/",
      "imageurl": "https://www.vespoe.com/pub/media/avatar/test-product.jpg",
      "full_price": 154,
      "price": 44,
      "full_price_eur": 50.73,
```

Response Body (JSON):

```
{
    "error": false,
    "data": 1,
    "message": "Product has been inserted successfully."
}
```

localhost:3000/ProductDetail?productCode=887706568

Test Product2

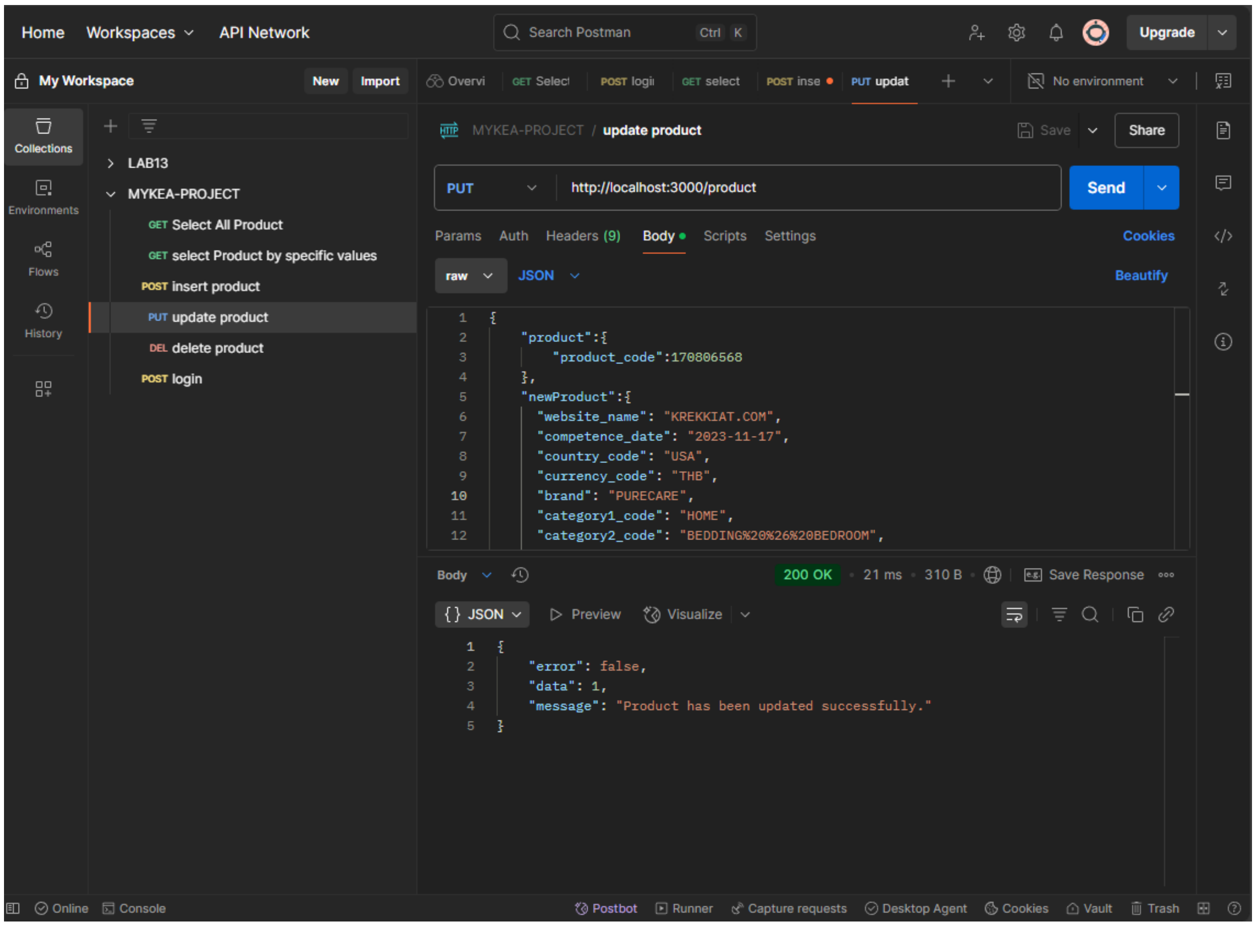
44 $

A clean design with solid wood veneer. Adjust the bed sides and place the mattress at the height that suits you best. The space under the bed can be utilized with our MALM underbed storage boxes.

```
//Testing insert product
//method: POST
//URL: http://localhost:3000/product
//body: raw JSON

Client:
{
  "product":{
     "website_name": "WARIS.COM",
    "competence_date": "2023-11-17",
    "country_code": "USA",
    "currency_code": "THB",
    "brand": "PURECARE",
    "category1_code": "HOME",
    "category2_code": "BEDDING%20%26%20BEDROOM",
    "category3_code": "MATTRESSES%20%26%20ACCESSORIES",
    "product_code": 887706568,
    "title": "Test Product2",
    "itemurl": "https://www.ruelala.com/boutique/product/204943/170806568/",
    "imageurl": "https://www.vespoe.com/pub/media/avatar/test-product.jpg",
    "full_price": 154,
    "price": 44,
    "full_price_eur": 50.73,
    "price_eur": 40.59,
    "flg_discount": "1"
  }
}

Response:
{
  "error": false,
  "data": 1,
  "message": "Product has been inserted successfully."
}
```

4. Update product

Test Case 1:



PUT http://localhost:3000/product

```
{
    "product":{
        "product_code":170806568
    },
    "newProduct":{
      "website_name": "KREKKIAT.COM",
      "competence_date": "2023-11-17",
      "country_code": "USA",
      "currency_code": "THB",
      "brand": "PURECARE",
      "category1_code": "HOME",
      "category2_code": "BEDDING%20%26%20BEDROOM",
```

200 OK · 21 ms · 310 B

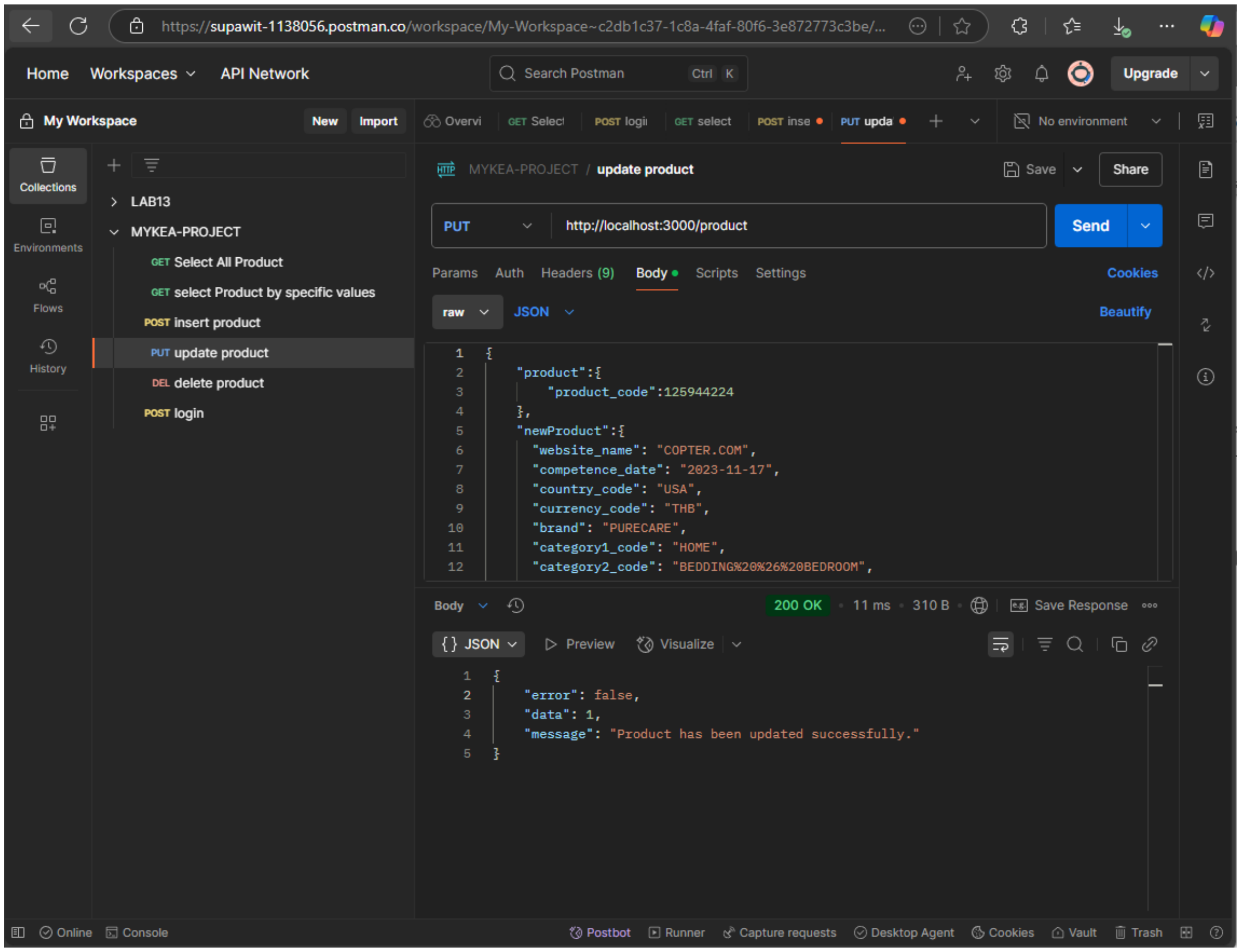
```
{
    "error": false,
    "data": 1,
    "message": "Product has been updated successfully."
}
```

SQL:

KREKKIAT.COM	2023-11-17	USA	THB	PURECARE	HOME	BEDDING

```
//Testing update product
//method: PUT
//URL: http://localhost:3000/product
//body: raw JSON

Client:
{
   "product":{
      "product_code":170806568
   },
   "newProduct":{
     "website_name": "KREKKIAT.COM",
     "competence_date": "2023-11-17",
     "country_code": "USA",
     "currency_code": "THB",
     "brand": "PURECARE",
     "category1_code": "HOME",
     "category2_code": "BEDDING%20%26%20BEDROOM",
     "category3_code": "MATTRESSES%20%26%20ACCESSORIES",
     "title": "PureCare Cotton Terry Mattress Protector",
     "itemurl": "https://www.ruelala.com/boutique/product/204943/170806568/",
     "imageurl":
"http://asset2.ruecdn.com/images/product/303091/3030916670_RLLDTH_1.jpg"
,
     "full_price": 55,
     "price": 44,
     "full_price_eur": 50.73,
     "price_eur": 40.59,
     "flg_discount": "1"
   }

}

Response:
{
   "error": false,
   "data": 1,
   "message": "Product has been updated successfully."
}
```

Test Case 2:



PUT http://localhost:3000/product

```
{
    "product":{
        "product_code":125944224
    },
    "newProduct":{
      "website_name": "COPTER.COM",
      "competence_date": "2023-11-17",
      "country_code": "USA",
      "currency_code": "THB",
      "brand": "PURECARE",
      "category1_code": "HOME",
      "category2_code": "BEDDING%20%26%20BEDROOM",
```

Body 200 OK 11 ms 310 B

```
{
    "error": false,
    "data": 1,
    "message": "Product has been updated successfully."
}
```

SQL:

COPTER.COM	2023-11-17	USA	THB	PURECARE	HOME	BEDDIN

```
//Testing update product
//method: PUT
//URL: http://localhost:3000/product
//body: raw JSON
```

Client:

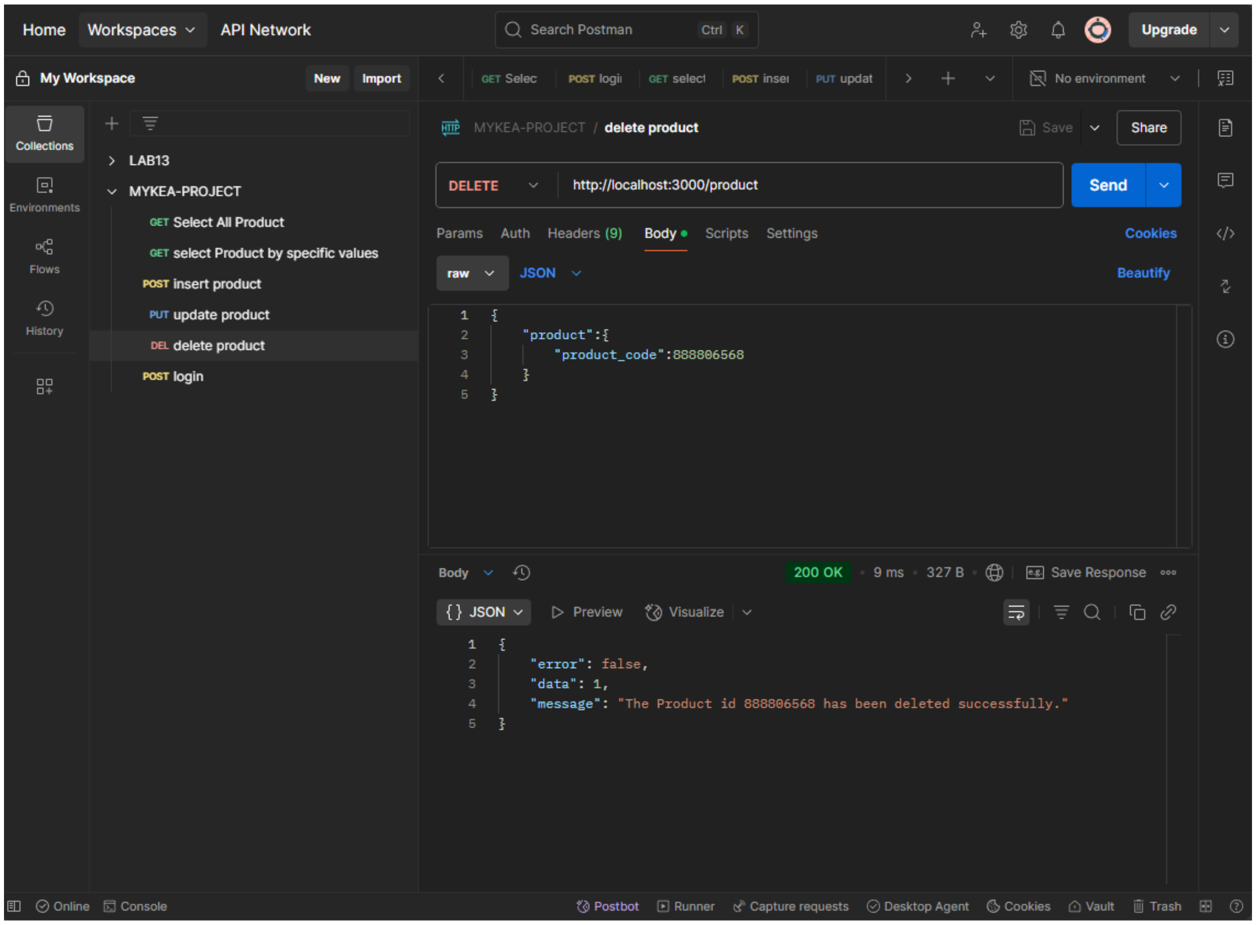
```
{
    "product":{
        "product_code":125944224
    },
    "newProduct":{
      "website_name": "COPTER.COM",
      "competence_date": "2023-11-17",
      "country_code": "USA",
      "currency_code": "THB",
      "brand": "PURECARE",
      "category1_code": "HOME",
      "category2_code": "BEDDING%20%26%20BEDROOM",
      "category3_code": "MATTRESSES%20%26%20ACCESSORIES",
      "title": "PureCare Cotton Terry Mattress Protector",
      "itemurl": "https://www.ruelala.com/boutique/product/204943/170806568/",
      "imageurl":
"http://asset2.ruecdn.com/images/product/303091/3030916670_RLLDTH_1.jpg"
,
      "full_price": 55,
      "price": 44,
      "full_price_eur": 50.73,
      "price_eur": 40.59,
      "flg_discount": "1"
    }

}
```

Response:

```
{
    "error": false,
    "data": 1,
    "message": "Product has been updated successfully."
}
```

5. Delete product

Test Case 1:



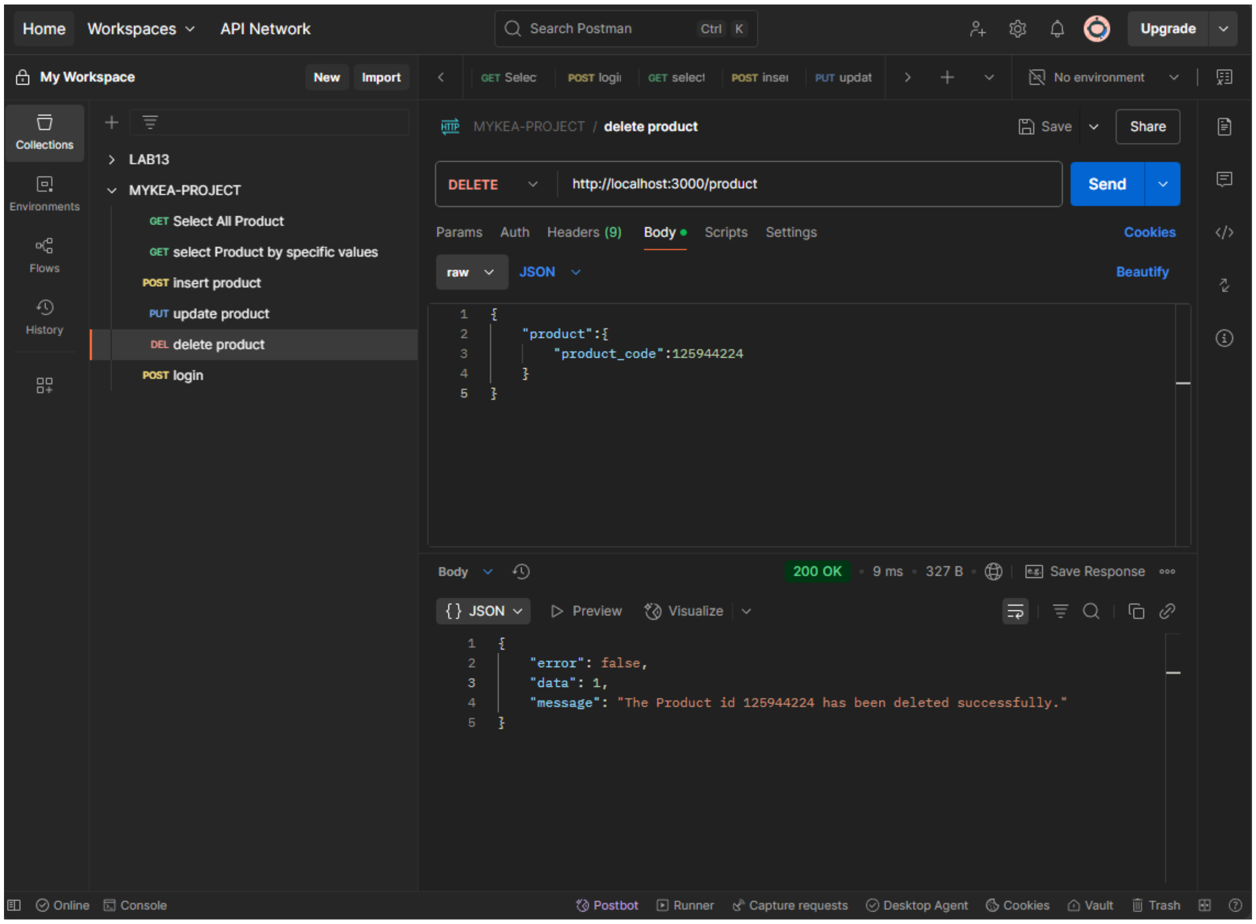
DELETE http://localhost:3000/product

```
{
    "product":{
        "product_code":888806568
    }
}
```

```
{
    "error": false,
    "data": 1,
    "message": "The Product id 888806568 has been deleted successfully."
}
```

```
//Testing delete product
//method: DELETE
//URL: http://localhost:3000/product
//body: raw JSON

Client:
{
    "product":{
        "product_code":888806568
    }
}


Response:
{
    "error": false,
    "data": 1,
    "message": "The Product id 888806568 has been deleted successfully."
}
```

Test Case 2:


DELETE http://localhost:3000/product

```
{
    "product":{
        "product_code":125944224
    }
}
```

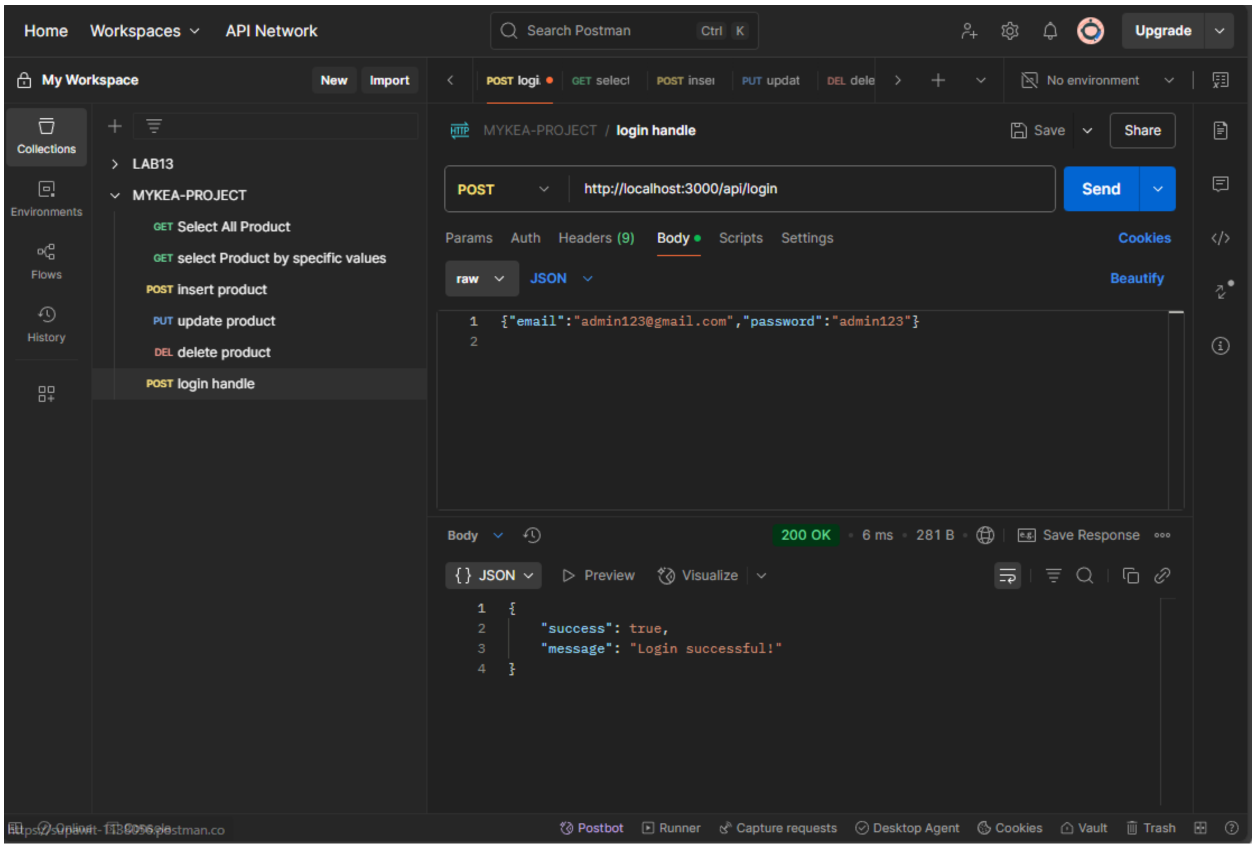
200 OK 9 ms 327 B

```
{
    "error": false,
    "data": 1,
    "message": "The Product id 125944224 has been deleted successfully."
}
```

```
//Testing delete product
//method: DELETE
//URL: http://localhost:3000/product
//body: raw JSON

Client:
{
    "product":{
        "product_code":125944224
    }
}


Response:
{
    "error": false,
    "data": 1,
    "message": "The Product id 125944224 has been deleted successfully."
}
```

6. Login handle

Test Case 1:

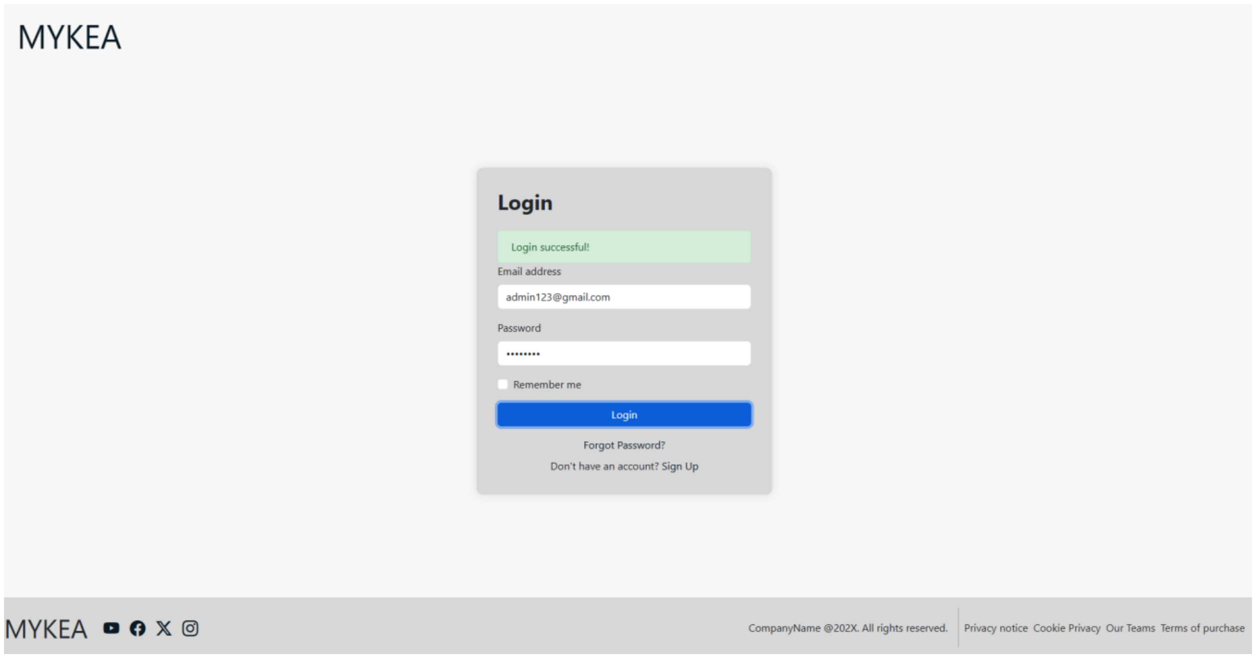


POST http://localhost:3000/api/login

```
{"email":"admin123@gmail.com","password":"admin123"}
```

200 OK 6 ms 281 B

```
{
    "success": true,
    "message": "Login successful!"
}
```



MYKEA

Login

Login successful!

Email address: admin123@gmail.com

Password: ••••••••

Remember me

Login

Forgot Password?

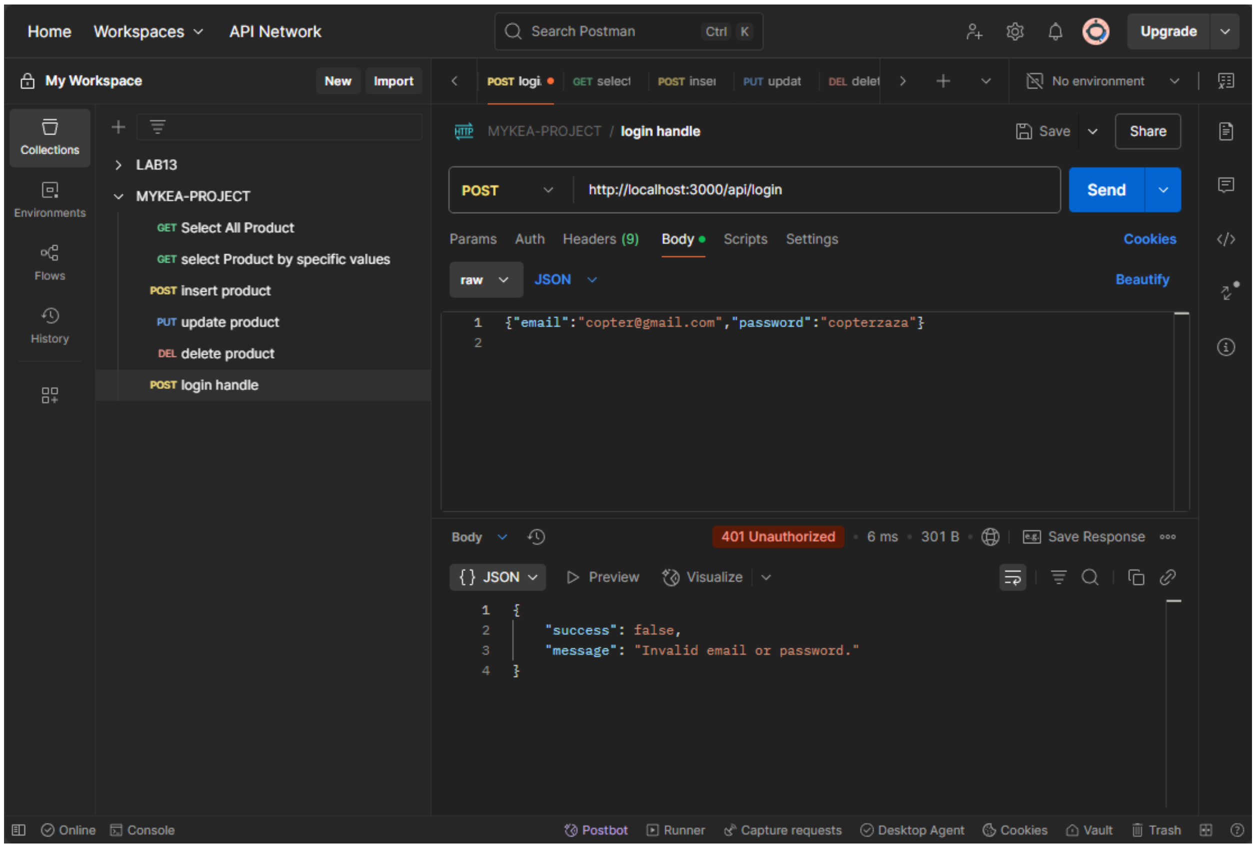
Don't have an account? Sign Up

MYKEA

CompanyName @202X. All rights reserved. Privacy notice Cookie Privacy Our Teams Terms of purchase

```
//Testing login handle
//method: POST
//URL: http://localhost:3000/api/login
//body: raw JSON

Client:
{"email":"admin123@gmail.com","password":"admin123"}

Response:
{
    "success": true,
    "message": "Login successful!"
}
```

Test Case 2:

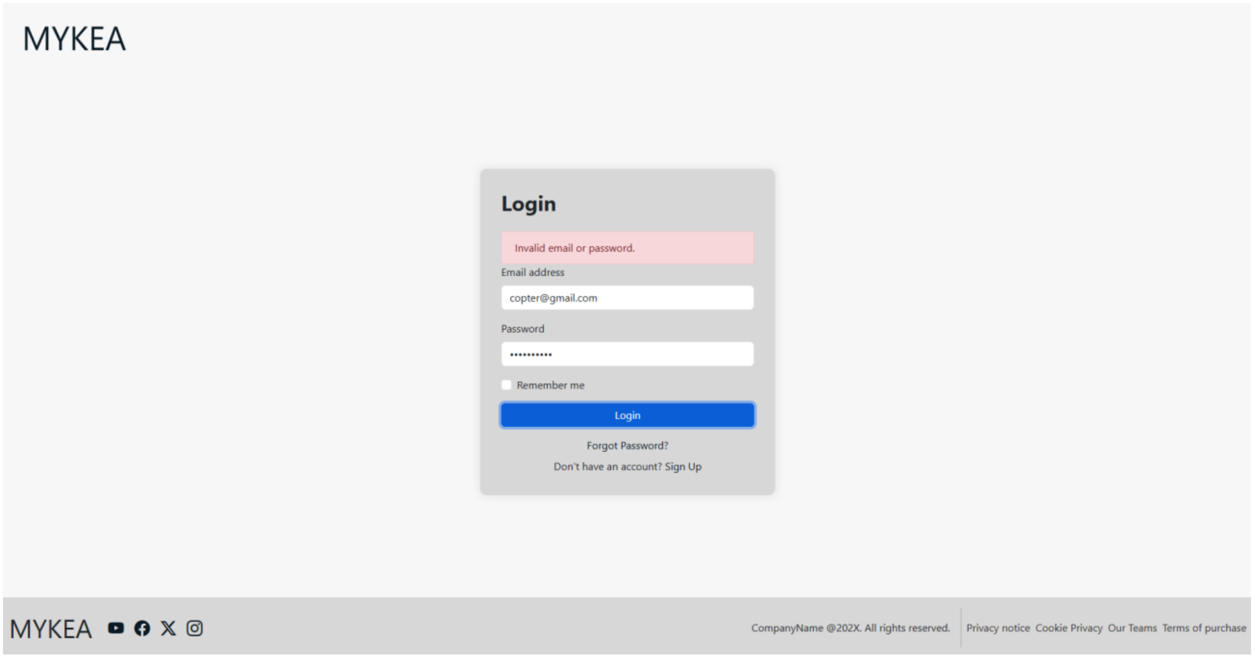


POST http://localhost:3000/api/login

```
{"email":"copter@gmail.com","password":"copterzaza"}
```

Body — 401 Unauthorized • 6 ms • 301 B

```
{
    "success": false,
    "message": "Invalid email or password."
}
```



Invalid email or password.

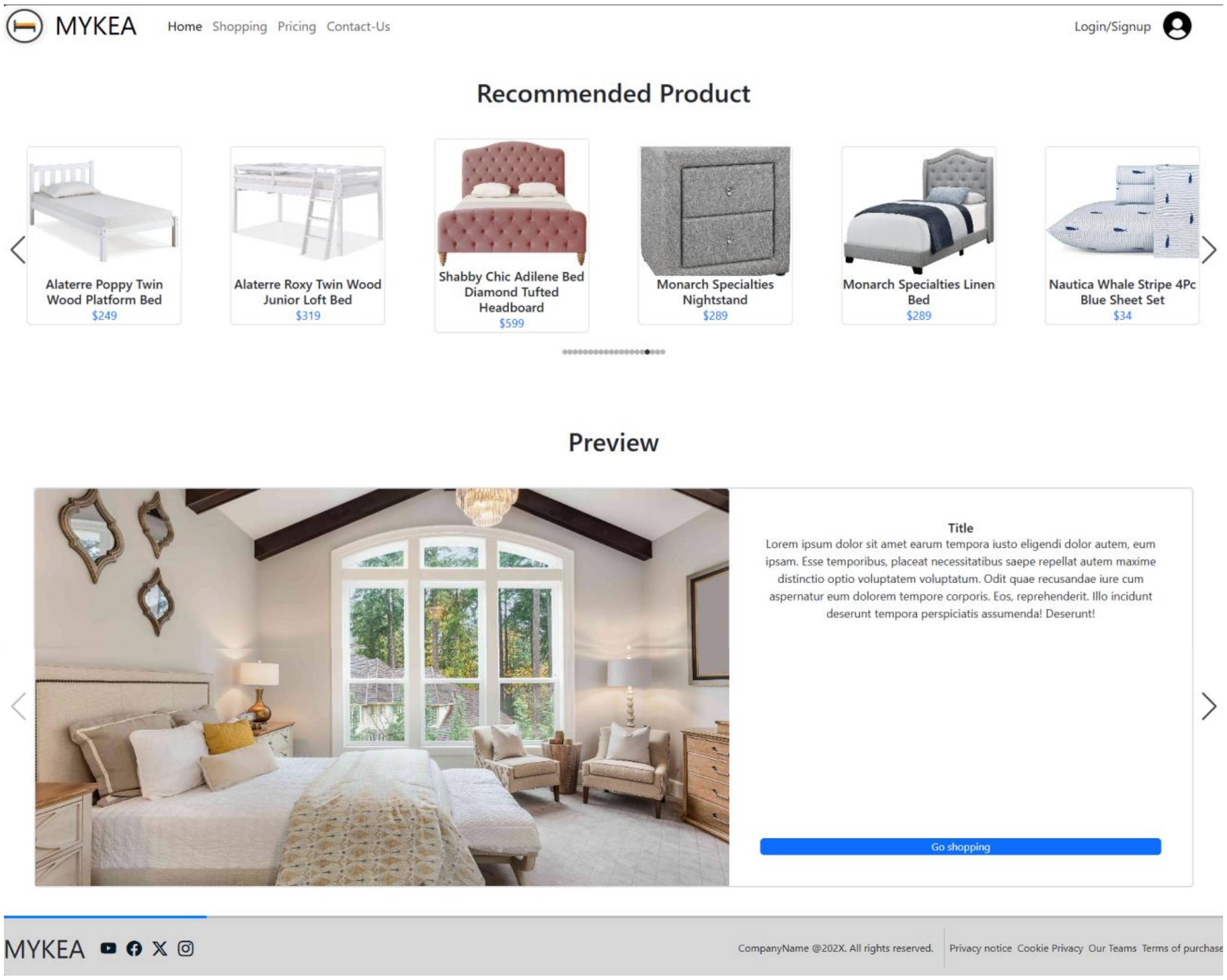
Email address: copter@gmail.com

Password: ••••••••••

```
//Testing login handle
//method: POST
//URL: http://localhost:3000/api/login
//body: raw JSON

Client:
{"email":"copter@gmail.com","password":"copterzaza"}


Response:
{
    "success": false,
    "message": "Invalid email or password."
}
```

Example of web application pages

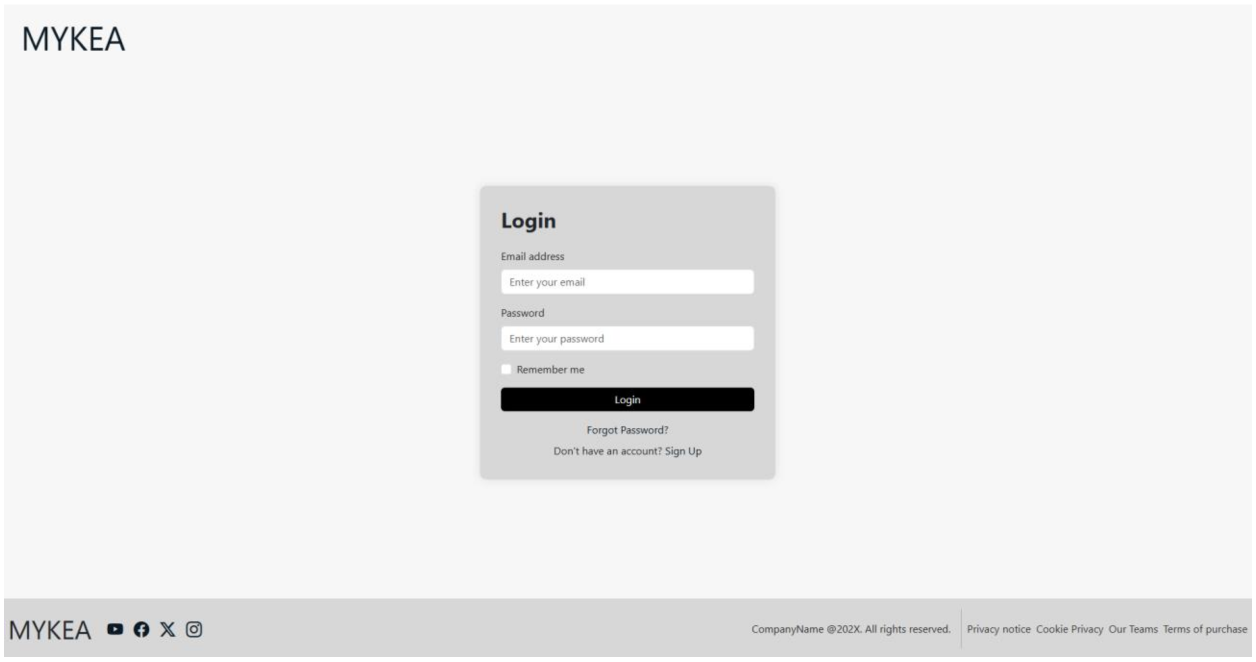
- Home page (‘http://localhost:3000/’, ‘http://localhost:3000/HomePage’)


MYKEA
Home
Shopping
Pricing
Contact-Us
Login/Signup
Recommended Product
Alaterre Poppy Twin Wood Platform Bed $249
Alaterre Roxy Twin Wood Junior Loft Bed $319
Shabby Chic Adilene Bed Diamond Tufted Headboard $599
Monarch Specialties Nightstand $289
Monarch Specialties Linen Bed $289
Nautica Whale Stripe 4Pc Blue Sheet Set $34
Preview
Go shopping
MYKEA
CompanyName @202X. All rights reserved.
Privacy notice
Cookie Privacy
Our Teams
Terms of purchase

Title

Lorem ipsum dolor sit amet earum tempora iusto eligendi dolor autem, eum ipsam. Esse temporibus, placeat necessitatibus saepe repellat autem maxime distinctio optio voluptatem voluptatum. Odit quae recusandae iure cum aspernatur eum dolorem tempore corporis. Eos, reprehenderit. Illo incidunt deserunt tempora perspiciatis assumenda! Deserunt!

- Login page (‘http://localhost:3000/Login’)


MYKEA

Login

Email address

Enter your email

Password

Enter your password

Remember me

Login

Forgot Password?

Don't have an account? Sign Up

MYKEA

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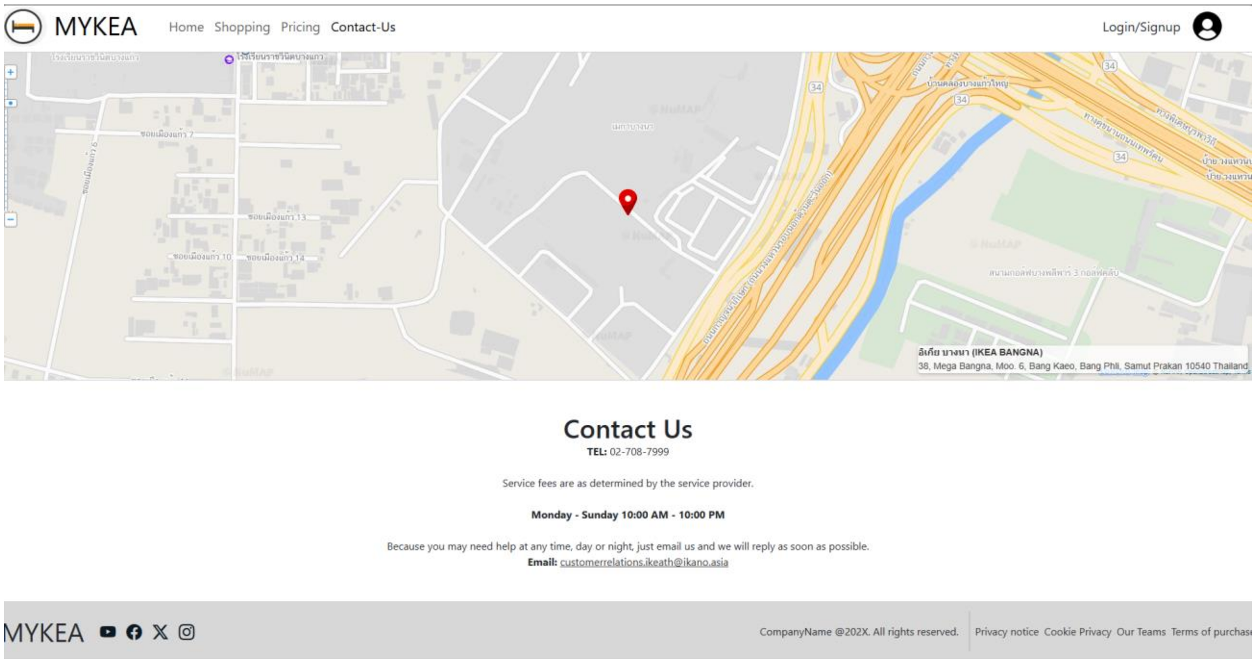
- Contact-Us page (‘http://localhost:3000/Contact-Us’)


MYKEA Home Shopping Pricing Contact-Us Login/Signup

อิเกีย บางนา (IKEA BANGNA)
38, Mega Bangna, Moo. 6, Bang Kaeo, Bang Phli, Samut Prakan 10540 Thailand

Contact Us

TEL: 02-708-7999

Service fees are as determined by the service provider.

Monday - Sunday 10:00 AM - 10:00 PM

Because you may need help at any time, day or night, just email us and we will reply as soon as possible.
Email: customerrelations.ikeath@ikano.asia

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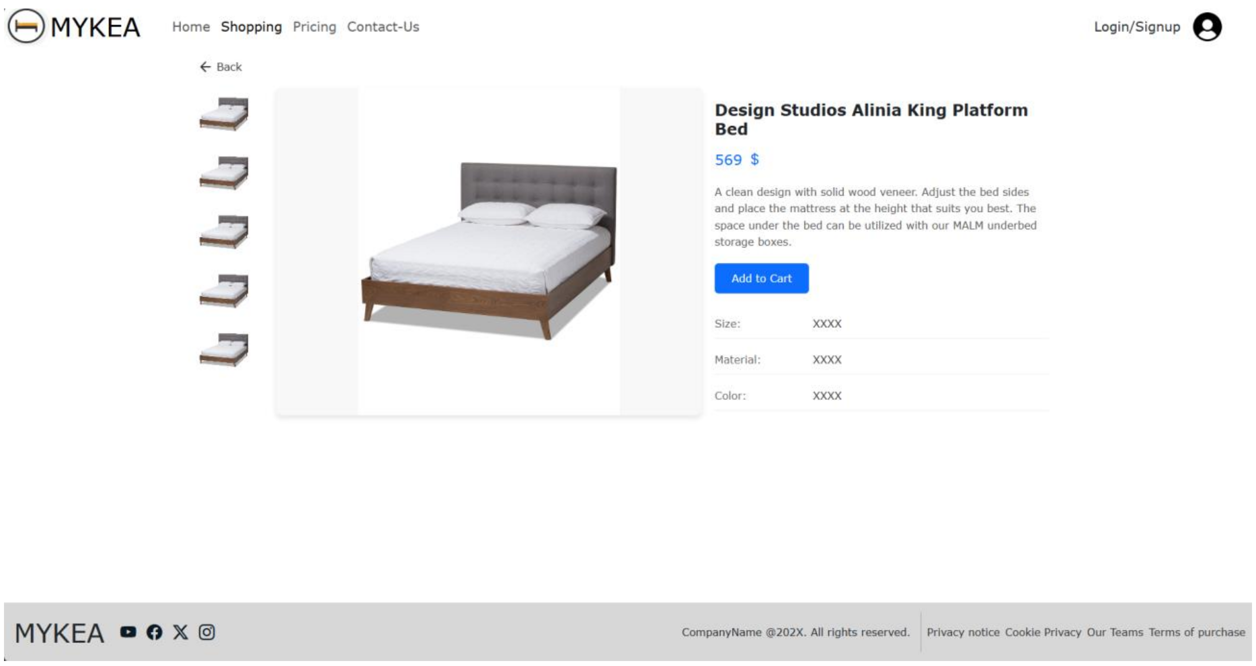
- ProductDetail page (‘http://localhost:3000/ProductDetail’)



Design Studios Alinia King Platform Bed

569 $

A clean design with solid wood veneer. Adjust the bed sides and place the mattress at the height that suits you best. The space under the bed can be utilized with our MALM underbed storage boxes.

Size:	XXXX
Material:	XXXX
Color:	XXXX

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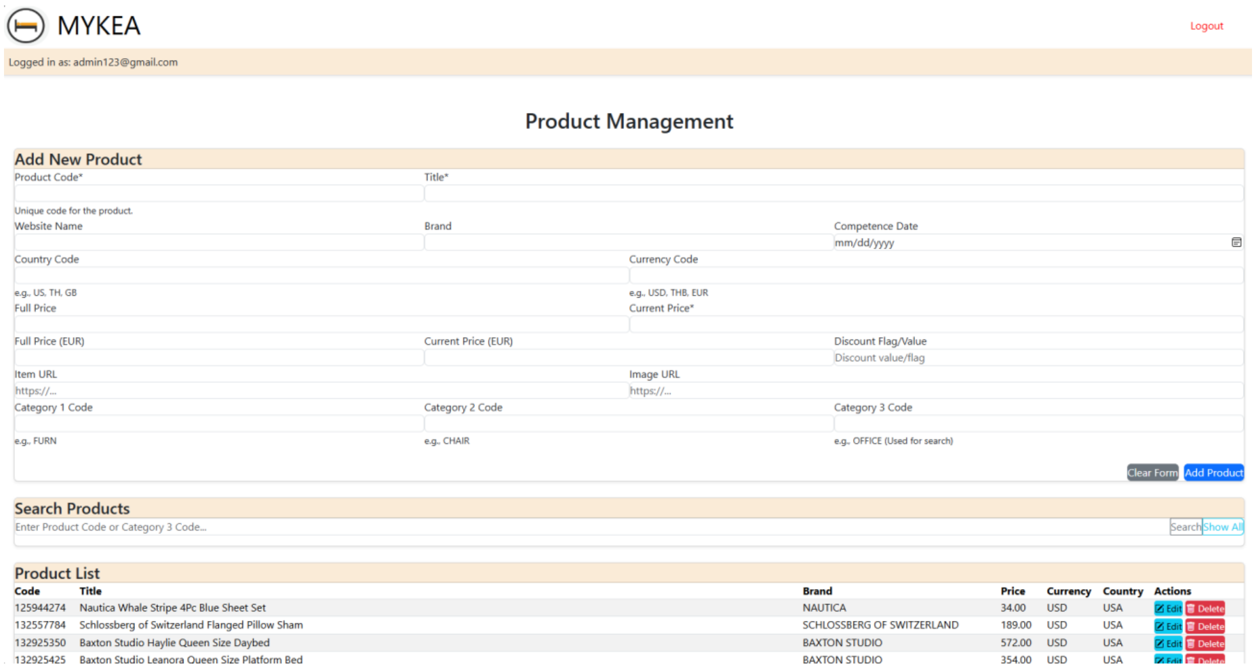
- ProductManagement page (‘http://localhost:3000/ProductManagement’)



Logged in as: admin123@gmail.com

Product Management

Add New Product

Product Code*
Unique code for the product.
Title*
Website Name
Brand
Competence Date: mm/dd/yyyy
Country Code: e.g., US, TH, GB
Currency Code: e.g., USD, THB, EUR
Full Price
Current Price*
Full Price (EUR)
Current Price (EUR)
Discount Flag/Value: Discount value/flag
Item URL: https://...
Image URL: https://...
Category 1 Code: e.g., FURN
Category 2 Code: e.g., CHAIR
Category 3 Code: e.g., OFFICE (Used for search)

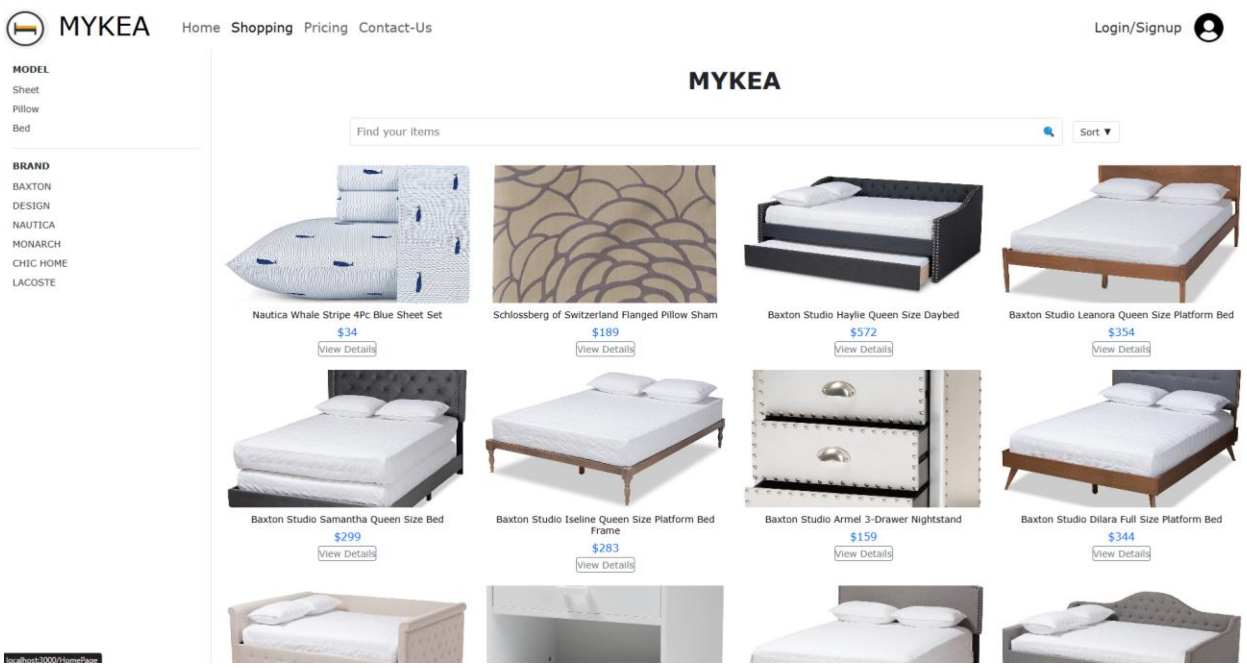
Search Products

Enter Product Code or Category 3 Code...

Product List

Code	Title	Brand	Price	Currency	Country	Actions
125944274	Nautica Whale Stripe 4Pc Blue Sheet Set	NAUTICA	34.00	USD	USA	Edit Delete
132557784	Schlossberg of Switzerland Flanged Pillow Sham	SCHLOSSBERG OF SWITZERLAND	189.00	USD	USA	Edit Delete
132925350	Baxton Studio Haylie Queen Size Daybed	BAXTON STUDIO	572.00	USD	USA	Edit Delete
132925425	Baxton Studio Leanora Queen Size Platform Bed	BAXTON STUDIO	354.00	USD	USA	Edit Delete

- Search page (‘http://localhost:3000/SearchPage’)



Nautica Whale Stripe 4Pc Blue Sheet Set
$34
View Details

Schlossberg of Switzerland Flanged Pillow Sham
$189
View Details

Baxton Studio Haylie Queen Size Daybed
$572
View Details

Baxton Studio Leanora Queen Size Platform Bed
$354
View Details

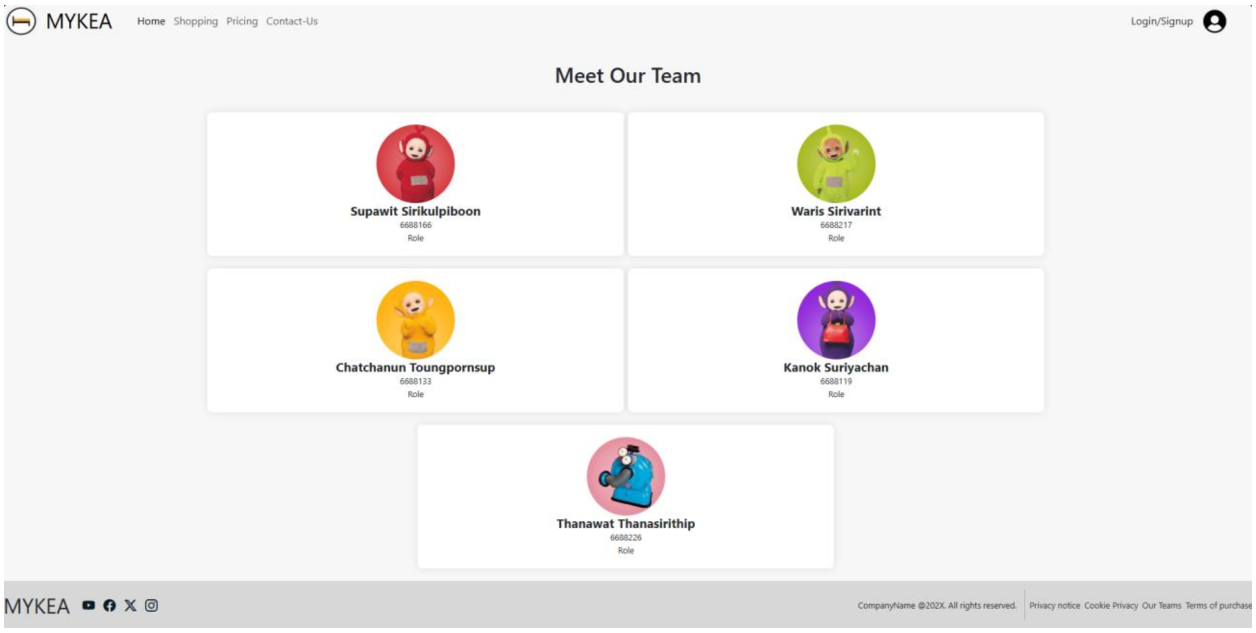
Baxton Studio Samantha Queen Size Bed
$299
View Details

Baxton Studio Iseline Queen Size Platform Bed Frame
$283
View Details

Baxton Studio Armel 3-Drawer Nightstand
$159
View Details

Baxton Studio Dilara Full Size Platform Bed
$344
View Details

- Team page (‘http://localhost:3000/OurTeam’)



Meet Our Team

Supawit Sirikulpiboon
6688166
Role

Waris Sirivarint
6688217
Role

Chatchanun Toungpornsup
6688133
Role

Kanok Suriyachan
6688119
Role

Thanawat Thanasirithip
6688226
Role

References

https://ellebeddingth.com/th/

https://www.potterybarn.com/shop/bedding/

https://www.marksandspencer.com/l/home-and-furniture/bedding