

FINAL ASSIGNMENT REPORT

Major: **Information Technology**

Course code: **CAP126**

Course name: **New Programming Language**

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Ho Chi Minh City

<2022>

SOCIALIST REPUBLIC OF VIETNAM

Independence – Freedom - Happiness

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Lecturer's comments:

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HCMC, (date)

Please sign here

Lecturer's full name

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PREFACE

We would like to thank HUTECH International Training Institute, Faculty of Information Technology, University of Technology Ho Chi Minh City (HUTECH) for creating favorable conditions for us to study and implement this project.

Our team would like to express our deep gratitude to Mr. Truong Ba Phuc for guiding our team to complete this project. Thanks to the online meetings and the teacher's suggestions, helped our group complete the specialized this project.

With limited knowledge, our project will have shortcomings. My team is looking forward to the teacher's comments to make our project better.

INTRODUCE

Currently, the rate of science is growing very fast, especially in the field of Information Technology. The requirements of software systems need to develop quickly, good quality, reduced cost costs, etc. Selecting a database management system is one of the factors leading to the success of the project. However, each type of database has different advantages and disadvantages, although in the problem to choose the right database. In order to respond to the element quickly, and instantaneously in the software system, one will choose the solution that uses a real-time database. But this type of database has a large operating cost, while many projects have only limited funding.

Chapter 1: Overview of My SQL and PHP Overview

1.1: Overview of MySQL:



With a storage-engine architecture that allows database professionals to configure the MySQL database server that characterizes specialized applications. Whether the application is a large capacity website serving millions of people / day or a high-speed transaction processing system, MySQL meets the strict processing capacity of all systems. With high-speed loading utilities, other advanced processing mechanisms and special caches, MySQL offers all but the necessary features for today's fastidious enterprise system.

MySQL is a free database management system, integrated for use with Apache, PHP. It is the development factor in the open source community that MySQL has gone through a lot of support from programmers who love open source. MySQL also has the same way of trying to export and code the same as the SQL language. In essence, MySQL only meets simple retrieval during the operation of the website but most can solve problems in PHP.

1.2 PHP Overview:

1.2.1 History of development:



PHP:

Developed from a product called PHP/FI.PHP/FI created by Rasmus Lerdorf in 1995, it was originally seen as a simple subset of Perl script codes to track access to his resume online. He named this script code "Personal Home Page Tools."

PHP3:

PHP3 is the first version that shows us an image that is close to the PHP versions that we know today. It was created by Andi Gutmans and Zeev Suraski in 1997 after rewriting the entire previous source code. PHP3 was officially announced in June 1998, after a period of 9 months of testing by the community..

PHP5:

On June 29, 2003, PHP 5 beta 1 was officially announced for community testing. It was also the first version of Zend Engine 2.0. The Beta 2 version then launched in October 2003 with the arrival of two highly anticipated features: Iterators, Reflection but namespaces another controversial feature was removed from the source code. Php5 officially launched on July 13, 2004 after a long series of tests including Beta 4, RC 1, RC 2, RC 3. Despite considering this to be the first production version, PHP 5.0 still has some errors in which significantly http authentication errors.

1.2.2: Advantages and disadvantages of PHP

a. Advantage:

- Use open source: Installing and using php programming language is easy and completely free for everyone. Therefore, this language is always installed a lot on Web Servers such as IIS, Apache, Nginx.
- Highly community: Because PHP is open source, it is easy to use, so this language is popular from the community of programmers. This language community is very broad and ensures quality. There have been many forums, blogs, websites at home and abroad explaining this language so people's accessibility will be easier and faster..
- Rich library system: Due to the large number of users, php language libraries are increasingly developed and expanded. With a rich library of code or functions, it will make learning or writing PHP applications easy and fast. Therefore, this is the characteristic that makes this language stand out. Php

languages can be combined with larger databases such as Oracle, MySQL, Cassandra.

- Security: Because this is open source, and with the support of the programming community, php programming language will be safe to use. When combined with security techniques at different levels, the programming language will be sure and ensure the operation of the website..

b. Shortcoming :

Grammatical structure is the problem that a user is exposed to in this language. PHP is not as beautiful and neat as other types of programming languages and only works on web applications.

Chapter 2: About laravel framework

2.1 What is PHP framework?

As the most popular PHP framework today, before diving into laravel's explanation, let's find out what php framework is..

A framework is a library with resources available for every area that programmers use without having to design it themselves. Having frameworks, programmers just need to learn and exploit those resources, sticking them together to create the complete product. For programmers, with different fields, they need to build program layers to design the finished software and applications.

Php framework is a library of PHP classes that help develop web applications written in PHP language to become more fluent. In other words, php framework helps speed up the process of application development in this programming language. It saves time, increases app stability, and minimizes the number of times you have to rewrite code for programmers..

2.2 What is Laravel?



Laravel is a completely free open source PHP framework, developed by Taylor Otwell, the first version launched in 2011. Laravel was born with the aim of supporting the development of web applications based on the Model - View - Controller (MVC) model.

Laravel is a framework released under an MIT license, with code sources stored at Github.

Although it came out later than other frameworks, Laravel quickly formed a big wave, which was appreciated for its quality and most widely used today.

2.3 The advantages and disadvantages of Laravel:

a. Advantage:

Laravel contains a lot of advantages that programmers can not ignore such as:

- Use the latest PHP features: the use of Laravel 5 gives developers access to the latest features php has to offer.
- The resources available are extremely rich, diverse materials that make it friendly to programmers.
- Fast processing speed: Laravel effectively supports the creation of websites or large projects in the short term.
- Ease of use: Even if you have a limited knowledge of PHP, you still have the ability to grow your website quickly.
- Easy database migration: Laravel allows you to maintain a database structure without necessarily reconstructing it. You can write PHP code to control the data instead of using SQL. In addition, you can also restore the most recent changes in the database.
- High security: Laravel uses PDO to combat SQL Injection attacks and a hidden token field to combat CSRF-style attacks that make it possible for users to focus on product development.

b. Disadvantages:

Despite possessing many outstanding advantages, Laravel reveals some disadvantages such as:

- The lack of alignment between versions makes the application vulnerable to interruption or stockings when updating the code.
- Heavy capacity makes the page loading process slow.

Chapter 3: Support tools

3.1: About XAMPP:



What is the meaning of the acronym XAMPP? XAMPP works based on the integration of five main software: Cross-Platform (X), Apache (A), MariaDB (M), PHP (P) and Perl (P), so the name XAMPP also stands for the initials of these 5 software.:

- The first X stands for the operating system it operates with: Linux, Windows, and Mac OS..
- Apache: Apache open source Web Server is the most widely used server worldwide for distributing Web content. The app is offered as free software by Apache Software Foundation.
- MySQL/MariaDB: In MySQL, XAMPP contains one of the most popular relational database management systems in the world. Combined with The Apache Web Server and php programming language, MySQL provides data storage capabilities for Web services. Current versions of XAMPP have replaced MySQL with MariaDB (an offshoot of the community-developed MySQL project, implemented by the original developers.).
- PHP: Php server-side programming language that allows users to create Dynamic Web pages or applications. PHP can be installed on all platforms and supports a number of diverse database systems.
- Perl: The Perl scripting language is used in system administration, Web development, and network programming. Like PHP, Perl also allows users to program dynamic Web applications..

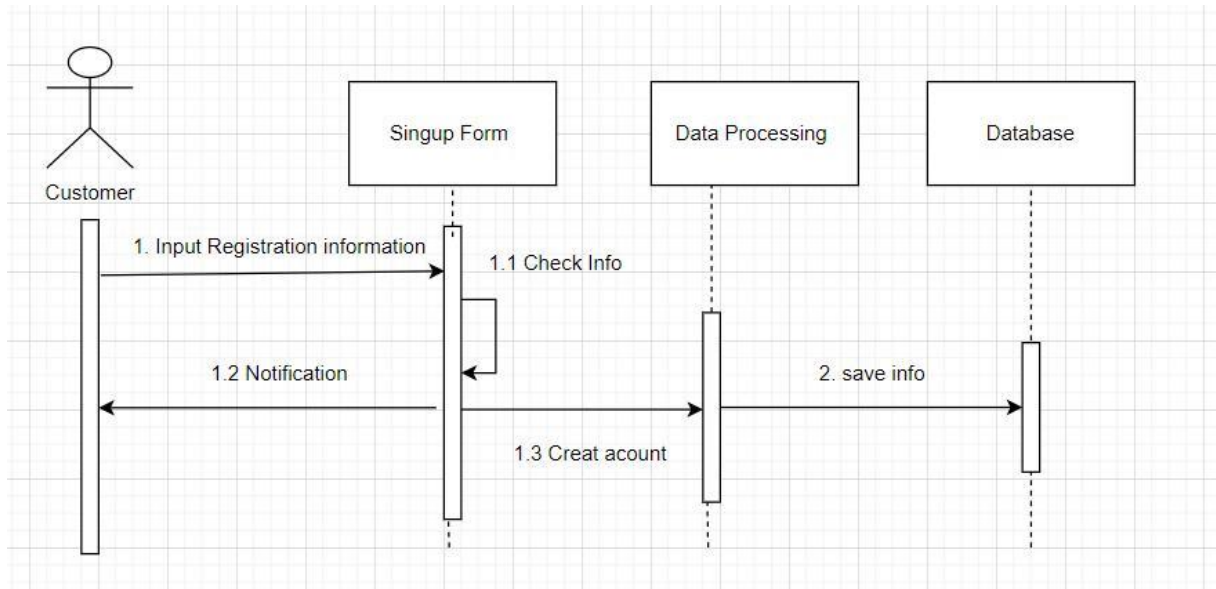
3.2 What is XAMPP used for?

What is the application of XAMPP? XAMPP software is a fairly common type of software application and is often used by programmers to build and develop php-language website projects. XAMPP is used for the purpose of researching and developing websites through localhost of personal computers. XAMPP is applied in many fields from learning to upgrading, testing the website of programmers.

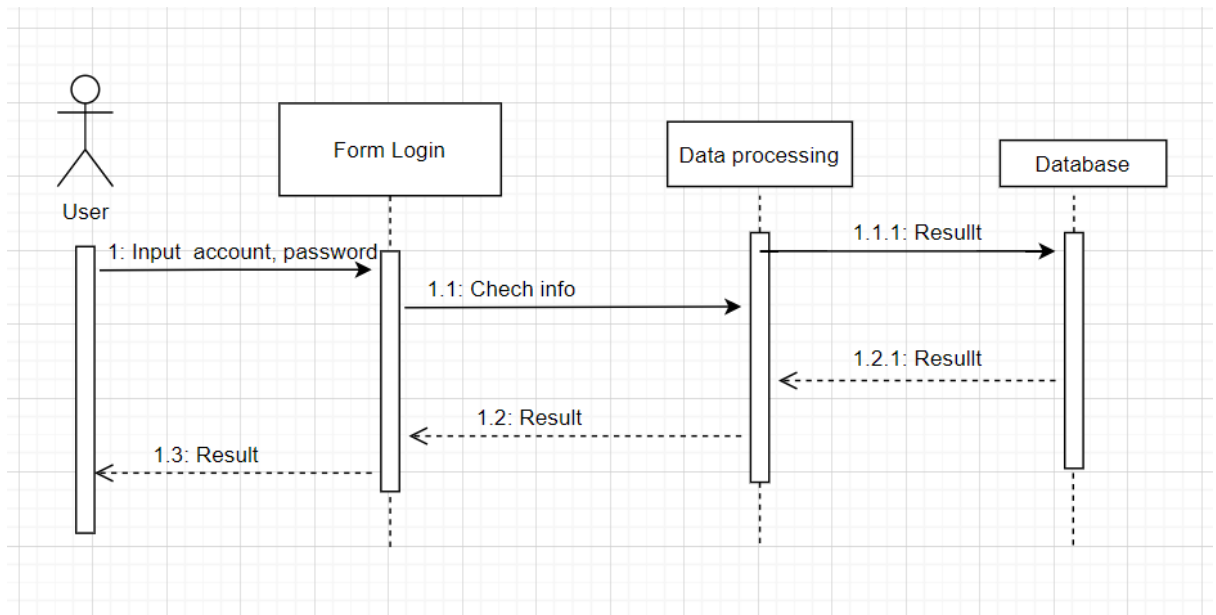
(Localhost is a combination of the words "local" (your computer) and "host" (server) which refers to the server running on a personal computer. Localhost basically it as a webserver includes: Apache, MySQL, PHP and PHP myadmin. Localhost uses the computer hard drive itself as a website storage and installation space.)

Chapter 4 : Biểu đồ Use Case

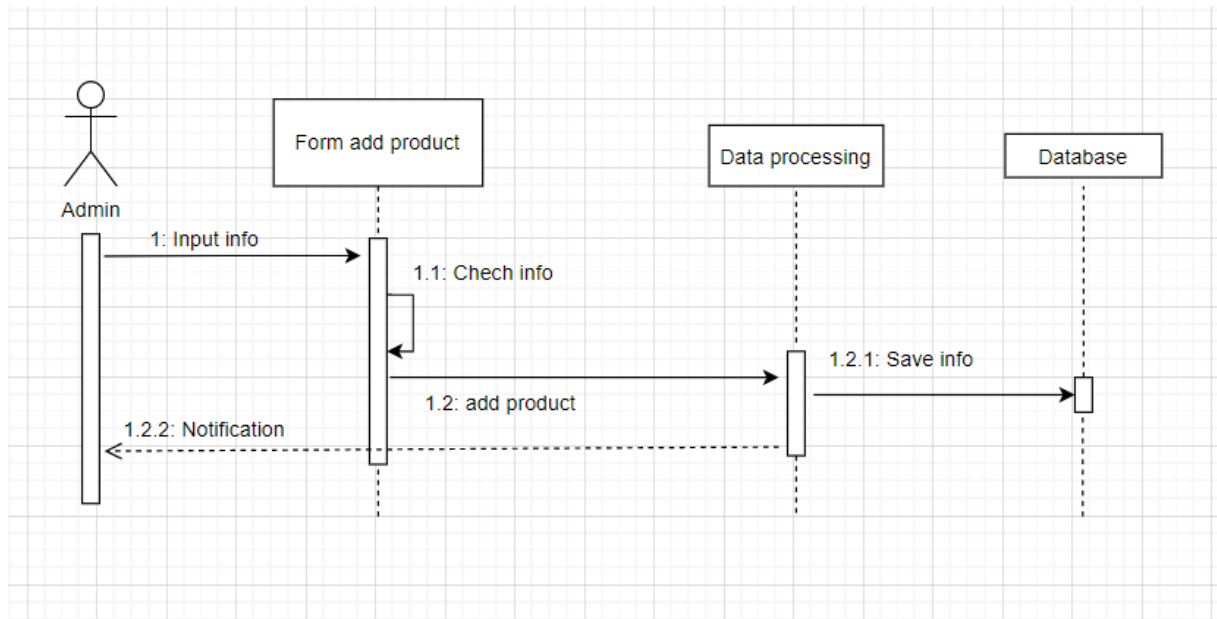
4.1. Sequence Regist



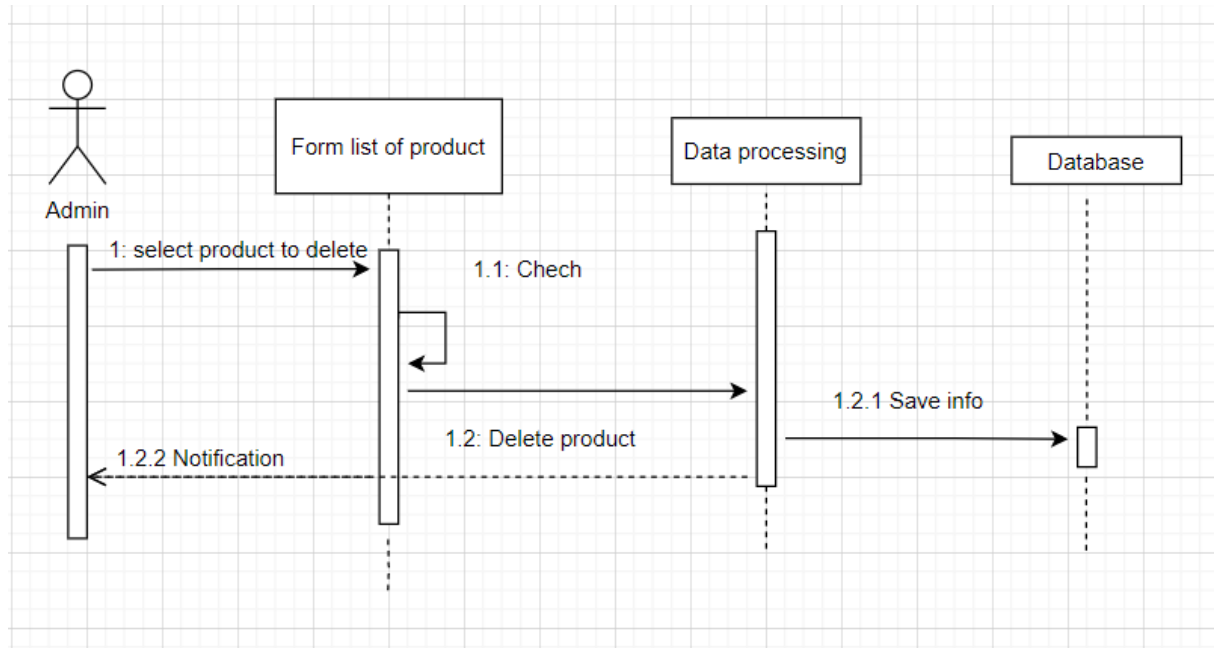
4.2. Sequency login



4.3. Sequence add product



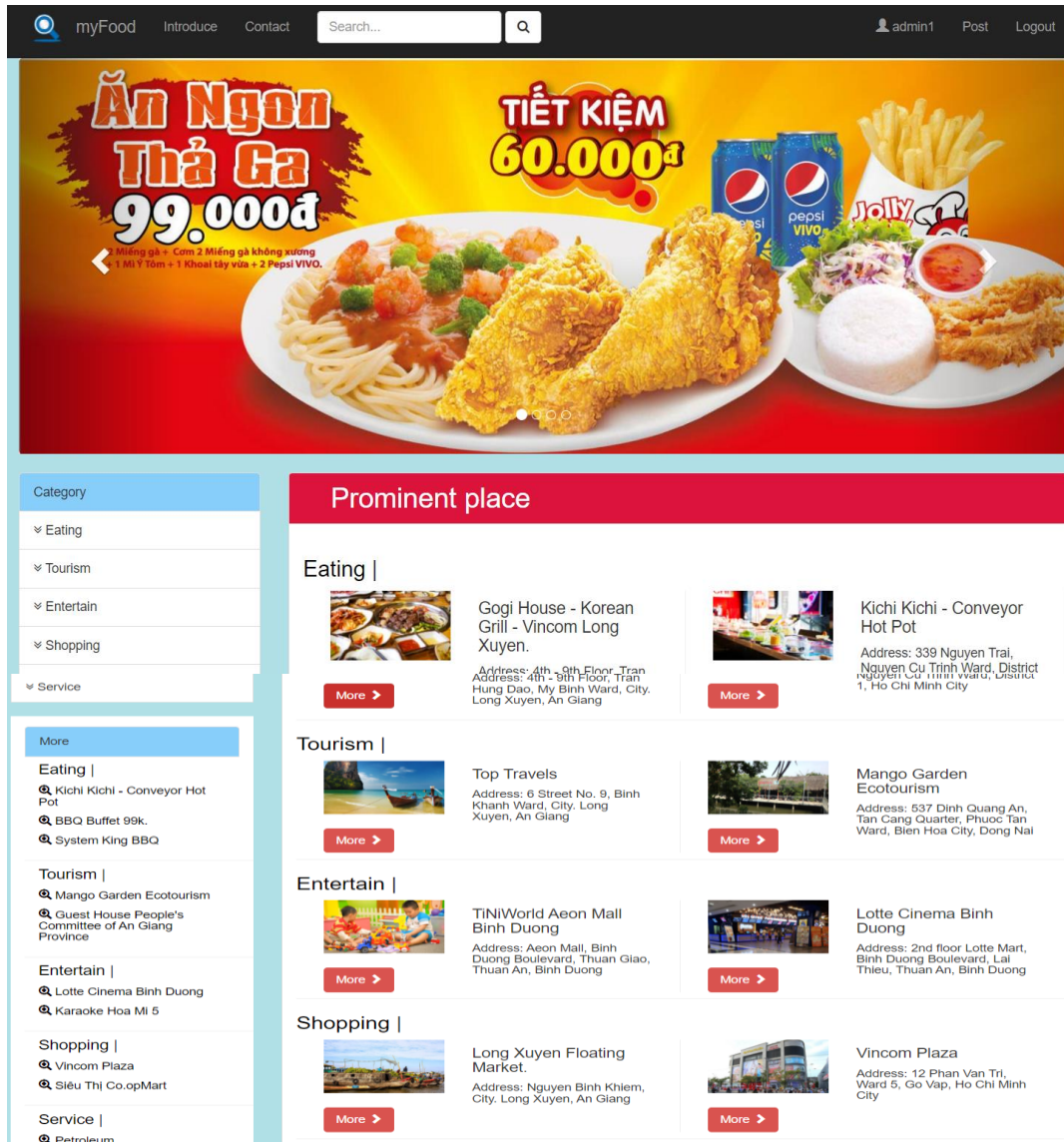
4.4 Delete product



Chương 5: DEMO WEBSITE


5.1 User interface

5.1.1 Home section interface



Petroleum


Service |



Babali Pet Shop

Address: 873 Ha Hoang Ho,
My Xuyen Ward, City. Long
Xuyen, An Giang

More >



Petroleum

Address: Thanh Xuan, District
12, Ho Chi Minh City

More >

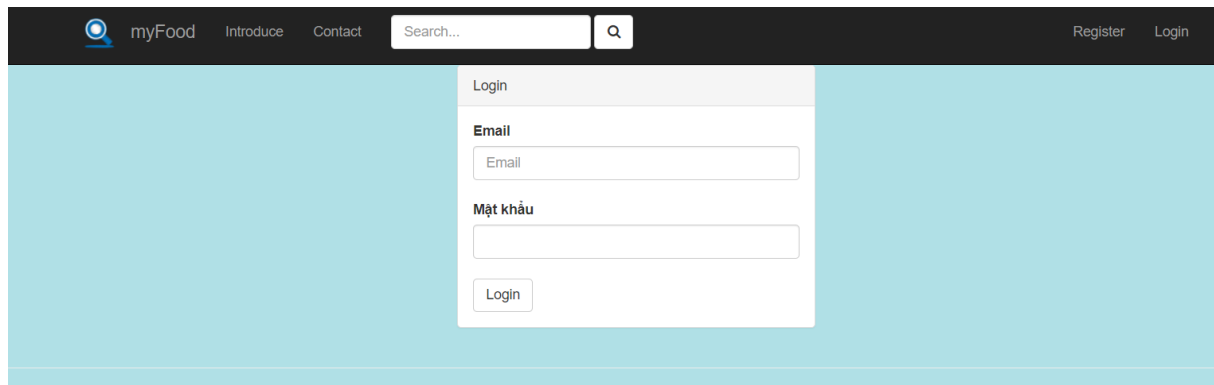
CV_TEMPLATES

Nguyen Anh Kiet
Ho Trinh Man
Huynh Minh Toan
Trang Gia Huy
Cao Van Tiep
Nguyen Huu Luan

QUICK LINKS

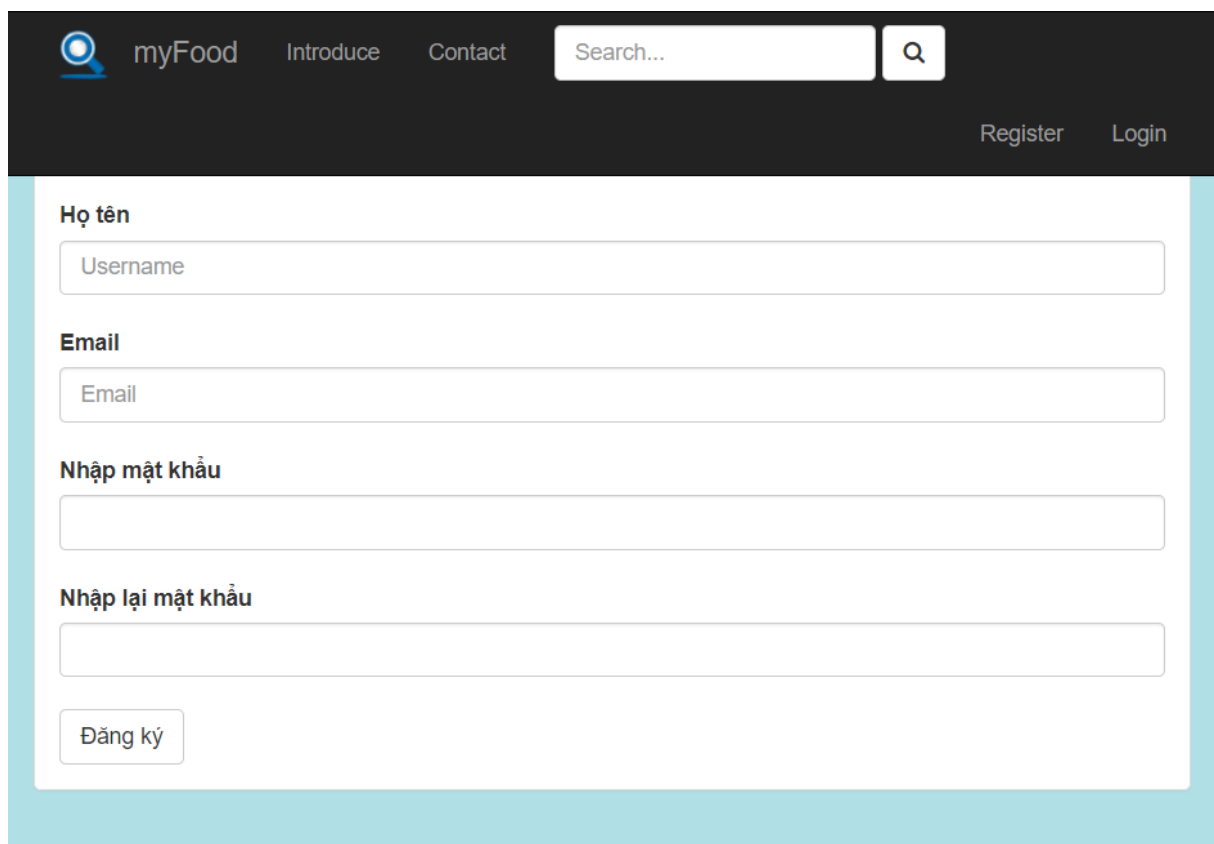
About Us
Contact Us
Contribute
Privacy Policy
Sitemap

5.1.2: Login, Registration section interface:



The image shows a login interface for a website. At the top, there is a dark navigation bar with a logo, the text "myFood", and links for "Introduce" and "Contact". A search bar with the placeholder "Search..." and a magnifying glass icon is also present. On the right side of the navigation bar, there are links for "Register" and "Login". The main content area has a light blue background. In the center, there is a white login form with a title "Login". Below the title, there are two input fields: "Email" and "Mật khẩu" (Password). Below the password field, there is a "Login" button.

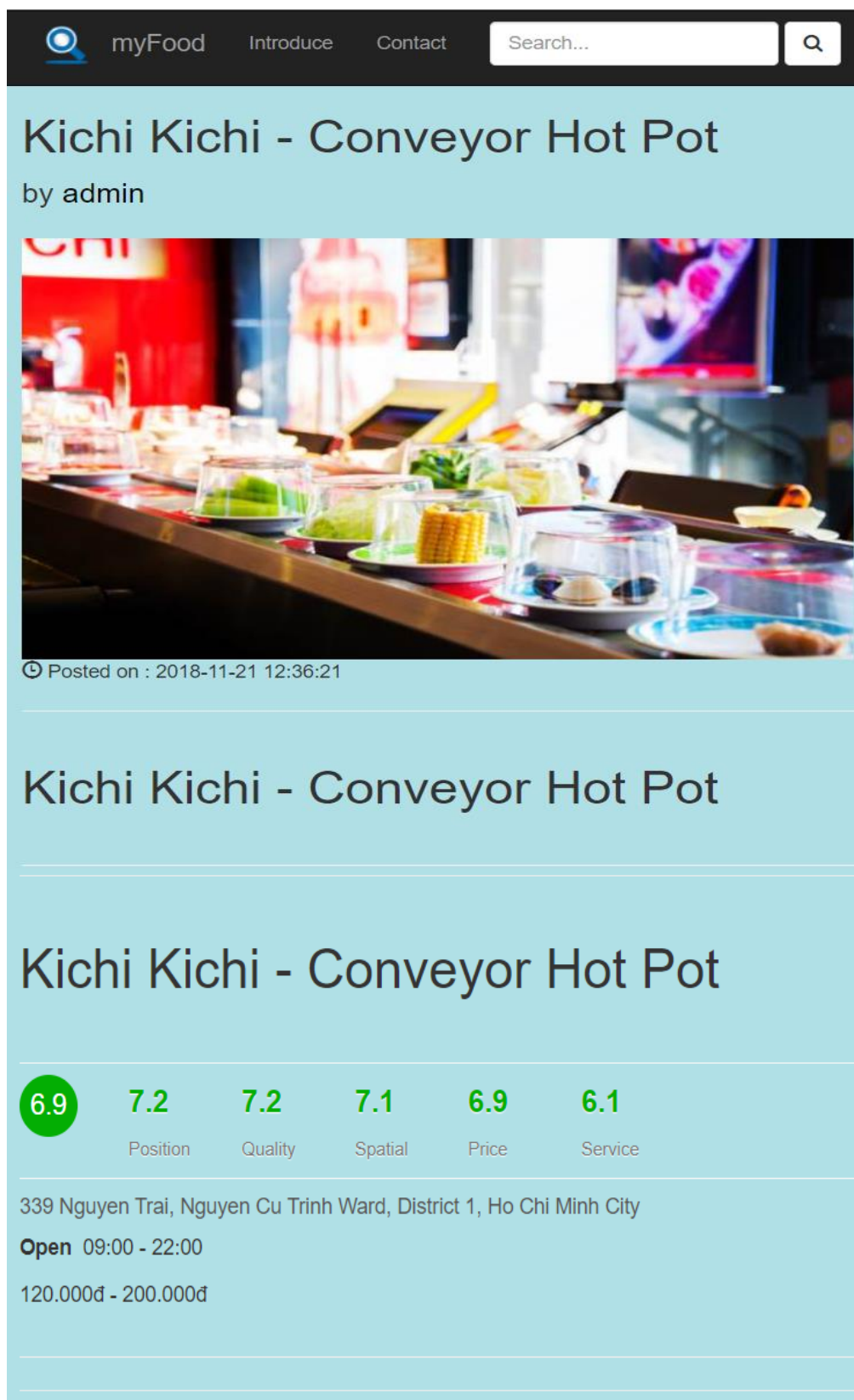
Hình 5.2 Sign in section interface



The image shows a registration interface for a website. At the top, there is a dark navigation bar with a logo, the text "myFood", and links for "Introduce" and "Contact". A search bar with the placeholder "Search..." and a magnifying glass icon is also present. On the right side of the navigation bar, there are links for "Register" and "Login". The main content area has a light blue background. In the center, there is a white registration form with a title "Họ tên" (Full Name). Below the title, there are four input fields: "Username", "Email", "Nhập mật khẩu" (Enter password), and "Nhập lại mật khẩu" (Enter password again). Below the last input field, there is a "Đăng ký" (Register) button.

Hình 5. 2: Subscription section interface

5.1.3 Product Details Section Interface:



Hình 5. 3: Product details section interface

5.1.4. Account information section interface:

The screenshot displays the 'Account information' section of the 'myFood' website. The interface features a dark blue header with the site logo, navigation links ('Introduce', 'Contact'), a search bar, and user options ('admin1', 'Post', 'Logout'). The main content area has a light blue background. A white form box contains the following fields: 'Name' (with 'admin1' entered), 'Email' (with 'admin1@gmail.com' entered), a 'Change password' section with an unchecked checkbox and an empty input field, and an 'Enter the password' section with an empty input field. A 'Fix' button is located at the bottom of the form. The footer is dark blue and contains two columns of links: 'CV_TEMPLATES' (listing names like Nguyen Anh Kiet, Ho Trinh Man, etc.) and 'QUICK LINKS' (listing links like About Us, Contact Us, etc.).

myFood Introduce Contact Search... Q admin1 Post Logout

Account information

Name

admin1

Email

admin1@gmail.com

☐ Change password

Enter the password

Fix

CV_TEMPLATES

Nguyen Anh Kiet
Ho Trinh Man
Huynh Minh Toan
Trang Gia Huy
Cao Van Tiep
Nguyen Huu Luan








QUICK LINKS

About Us
Contact Us
Contribute
Privacy Policy
Sitemap

Hình 5. 4: Account information section interface

5.2: Admin part interface:

5.2.1 Product management section interface:

Admin Area									
<div> Home Type Place Type Location Information List Add Slide User </div>									
Location Information List									
<div> Show 10 entries <div>Search:</div> </div>									
ID	Title	Summary	Type	Place type	view	Hot	Delete	Edit	
1	 System King BBQ	1058 Nguyen Van Linh, Tan Phong, District 7, Ho Chi Minh City	Eating	Buffet	0	có	Delete	Edit	
2	 BBQ Buffet 99k.	1068 Nguyen Van Linh, Tan Thuan Tay, District 7, Ho Chi Minh City	Eating	Buffet	0	có	Delete	Edit	
3	 Kichi Kichi - Conveyor Hot Pot	339 Nguyen Trai, Nguyen Cu Trinh Ward, District 1, Ho Chi Minh City	Eating	Restaurants	0	có	Delete	Edit	
4	 Gogi House - Korean Grill - Vincom.	4th - 9th Floor, Tran Hung Dao, My Binh Ward, HCMC	Eating	Restaurants	0	có	Delete	Edit	
5	 Three Leaf Clover - Ho Nguyen Du	Ho Nguyen Du, City. Long Xuyen, An Giang	Eating	Snacks	0	không	Delete	Edit	
10	 District 12 Grilled Food.	12 Ha Huy Giap, Thanh Loc, District 12, Ho Chi Minh City	Eating	Pubs	0	không	Delete	Edit	
12	 Bún Đậu Mắm Tôm	501 Nguyen Trai, Lai Thieu, Thuan An, Binh Duong	Eating	Office delivery	0	không	Delete	Edit	
<div> Showing 1 to 10 of 30 entries <div> Previous 1 2 3 Next </div> </div>									

Hình 5.5: Location Information List

5.2.2 Add location information :

[illegible]

Hình 5.6: Add location information

5.2.3 Place Type:

List:

Home

Type

Place Type

List

Add

Location Information

Slide

User

Place Type

List

Show 10 entries

Search:

ID	Place type name	Unsigned name	Type	Delete	Edit
31	Buffet	buffet	Eating	Delete	Edit
32	Restaurants	restaurants	Eating	Delete	Edit
33	Snacks	snacks	Eating	Delete	Edit
34	Vegetarianism	vegetarianism	Eating	Delete	Edit
35	Coffee	coffee	Eating	Delete	Edit
36	Restaurant	restaurant	Eating	Delete	Edit
37	Pubs	pubs	Eating	Delete	Edit
38	Bakery	bakery	Eating	Delete	Edit
39	Office delivery	office-delivery	Eating	Delete	Edit
40	Food Courts	food-courts	Eating	Delete	Edit

Showing 1 to 10 of 32 entries

Previous1234Next

Add:

Admin Area

Home

Type

Place Type

List

Add

Location Information

Slide

User

Place Type

Add

Add

Eating

Place type name

AddNew

5.2.4: Slide:

● List:

Home

Type

Place Type

Location Information

Slide





List

Add

User

Slide List

Show 10 entries Search:

ID	Name	Content	Image	Link	Delete	Edit
9	slide1	<p>slide1</p>		https://www.foody.vn/an-giang	Delete	Edit
10	slide2	<p>slide2</p>		https://www.foody.vn/an-giang	Delete	Edit
11	slide3	<p>slide3</p>		https://www.foody.vn/an-giang	Delete	Edit
12	slide4	<p>slide4</p>		https://www.foody.vn/an-giang	Delete	Edit

Showing 1 to 4 of 4 entries

Previous 1 Next

●

Add:

- Home
- Type
- Place Type
- Location Information
- Slide
 - List
 - Add
- User

5.2.5 User:

● List:

Home

Type

Place Type

Location Information

Slide

User

List

Add

User List

Show 10 entries

Search:

ID	Name	Email	Level	Delete	Edit
1	admin	admin@email.com	Admin	Delete	Edit
2	Toàn	toan@email.com	Thường	Delete	Edit
3	admin1	admin1@gmail.com	Admin	Delete	Edit

Showing 1 to 3 of 3 entries

Previous1Next

● Add:

Home

Type

Place Type

Location Information

Slide

User

List

Add

User Add

Nane

Email

Password

Confirm password

User Rights

☒ Normal ☐ Admin

Add

New

CONCLUSION

Evaluation of results:

During the work of this subject project, with his own efforts, the entire team member and the help of Mr. Truong Ba phuc. The em team completed the theme: " Building a BookShop Website for BookShop stores using Reactjs, Expressjs frameworks, and MongoDB ". The website achieves some of the following results:

- Administrators can manage content easily
- The website uses reactJS library to help website users have the best experience when using
- In terms of customers: easy to access, simple interface, easy to use
- Basic completion of sales website design requirements, system analysis and design

Direction of Development:

- More detailed statistical reporting system
- Make a list of products purchased when customers log in
- Online payment on website, e-wallet
- Manage search, improve the interface display well across all browsers

Despite the effort, due to the limited time, the topic is still limited. The em team hopes to receive the sympathy and feedback of teachers to make my website more and more complete

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[1] Website tham khảo

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