

# BUILDING A EDUCATION WEBSITE TO SELL COURSES FOR VAN ANH ACADEMY



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## INTRODUCTION

The expansion of information technology (IT) in recent years has had an impact on every facet of social life, ranging from science and technology to socioeconomics. Information technology enhances and simplifies industrial processes and offers additional managerial advantages. Technology has impacted human activity and is playing a bigger role. In recent years, information technology in our nation has advanced remarkably. It is becoming more and more common in all spheres of social life, including learning, purchasing, and selling, as well as trading. Because of COVID-19, online education has been booming lately. E-commerce, on the other hand, refers to the practice of trading, purchasing, and selling items over the Internet. On the websites of educators and teaching centers, customers can view, refer to, and choose products that have been introduced. This is a practical and simple-to-create business form that will offer expanding companies several chances for prosperity and recognition. In any industry, e-commerce provides advantages as well. Every human transaction is completed in less time and money thanks to it. In addition to providing for human needs, online commerce enables customers to evaluate costs and purchase high-quality goods at lower costs. "Building a website to sell English Literature courses" was the subject I decided on.

## ANALYSIS AND DESIGN SOFTWARE

### Analysis functions

Students can browse, search for course information, purchase courses, take classes, view purchase history, and make payments on the website by logging in or creating an account with their account name and password. Send comments and make an online payment. By creating an account on the website and entering their password, tutors can access the specified course materials. Additionally, they can see who is enrolled in the designated course. After logging in, the administrator can control the website's content, including accounts, courses, students, instructors, and income data. You need to be logged in to use the website. The system stores user offerings. Customers have two options for making payments: money in their account or online banking. systems that keep track of orders.

### Design databases

Fig. 1. shows the database of software, it has 20 tables of data. The website's database is designed according to 3NF standards, making the database concise and easy to understand.

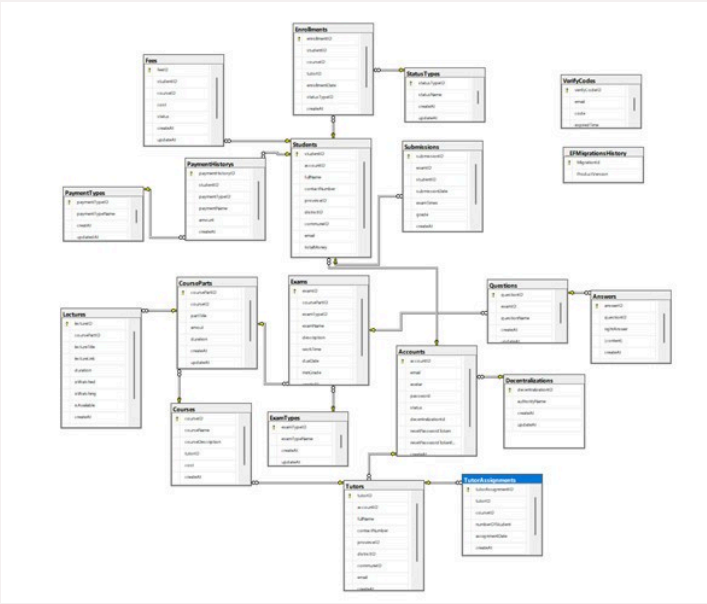


Fig. 1. Diagram of database

## INSTALLING AND TESTING

The ASP.NET Core 6.0 framework and C# are used in the development of the API (Fig. 2.). The frontend site is developed using ReactJs and TailwindCSS (Fig. 3.).

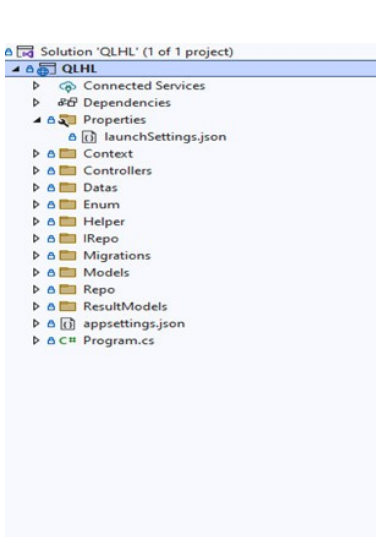


Fig. 2. Structure of API

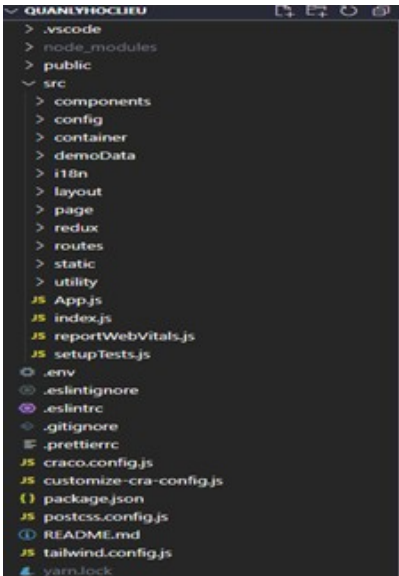


Fig. 3. Structure of frontend site

Fig. 4. shows the testing plan of this software. Fig. 5. shows the list of test case.

| Môc công việc                         | Sản phẩm  | Thời gian | Bắt đầu    | Kết thúc   |
|---------------------------------------|-----------|-----------|------------|------------|
| Lập kế hoạch kiểm thử                 | Test case | 1 ngày    | 09/05/2024 | 10/05/2024 |
| Xem lại các tài liệu                  | Test case | 1 ngày    | 09/05/2024 | 10/05/2024 |
| Thiết kế các test case                | Test case | 1 ngày    | 09/05/2024 | 10/05/2024 |
| Xem lại các testcase                  | Test case | 1 ngày    | 10/05/2024 | 11/05/2024 |
| Thực thi các testcase                 | Test case | 1 ngày    | 10/05/2024 | 11/05/2024 |
| Ghi nhận và đánh giá kết quả kiểm thử | Test case | 1 ngày    | 10/05/2024 | 11/05/2024 |

Fig. 4. Testing plan

| Tên người kiểm thử | Nội dung kiểm thử                       | Thời gian kiểm thử        | Cách thức kiểm thử |
|--------------------|---|---------------------------|--------------------|
| Kiều Văn Anh       | Đăng ký, đăng nhập tài khoản            | Sau khi hoàn tất phần mềm | Thủ công           |
|                    | Quản lý tài khoản                       | Sau khi hoàn tất phần mềm | Thủ công           |
|                    | Quản lý khóa học                        | Sau khi hoàn tất phần mềm | Thủ công           |
|                    | Quản lý học viên, giảng viên            | Sau khi hoàn tất phần mềm | Thủ công           |
|                    | Quản lý feedback                        | Sau khi hoàn tất phần mềm | Thủ công           |
|                    | Xem giỏ hàng, Mua hàng, Vào học         | Sau khi hoàn tất phần mềm | Thủ công           |
|                    | Quản lý thông tin cá nhân, Gửi feedback | Sau khi hoàn tất phần mềm | Thủ công           |
|                    | Xem phản công                           | Sau khi hoàn tất phần mềm | Thủ công           |

Fig. 5. List of test case

## RESULTS AND DISCUSSION

Fig. 6. displays the API's interface. C# and the ASP.NET Core 6.0 framework were used to develop this website. I use Swagger to show API controllers on this website. In order to utilize Swagger UI in this project, we must install the package Swashbuckle.Microsoft.NetCore. We also need to edit some lines of codes in Program.cs and launchSetting.json to use Swagger. Fig. 7. shows the statistics view interface for the admin. This website is based on TailwindCSS and ReactJs. Here, the administrator can see charts that display revenue and transaction data. Other management features that the administrator can utilize include account, course, student, and tutor management. Fig. 8. shows the interface of the student's home page. TailwindCSS and ReactJs are used in the construction of this page. Students get access to the center's news and information. In addition, students can update their personal information, take classes, purchase courses, and watch courses. On the tutor site, tutors can view a list of assigned courses, comprehensive course details, and other students registered for that course .

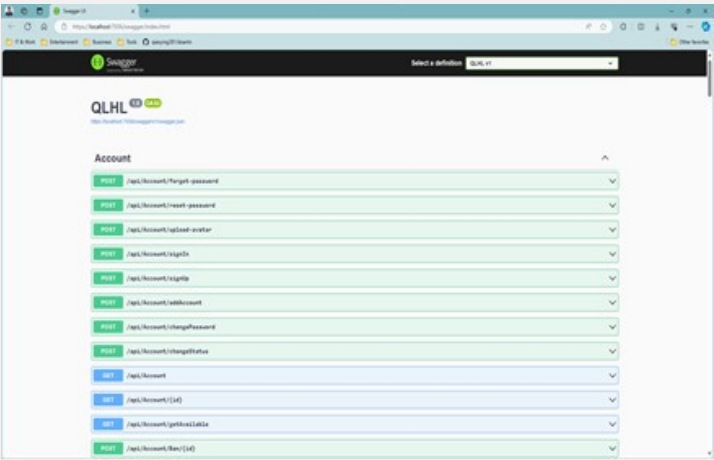


Fig. 6. Interface of API

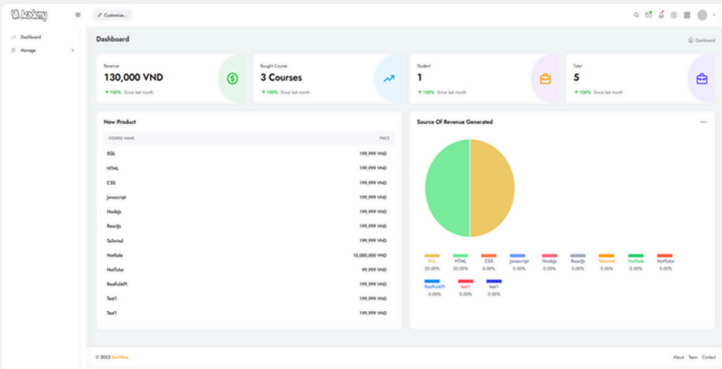


Fig. 7. Interface of Admin site

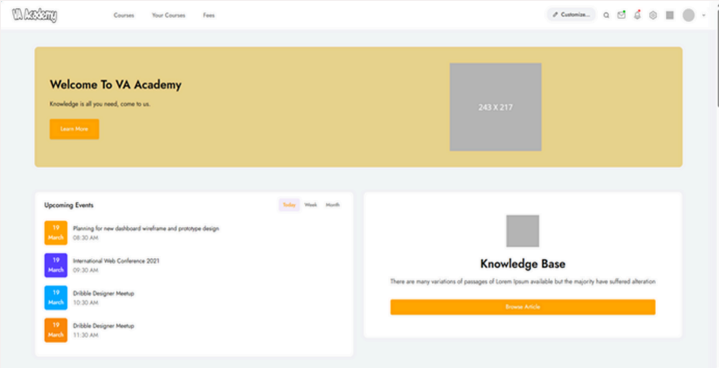


Fig. 8. Interface of Student and Tutor site

## CONCLUSION

After this project, I recognized the selling procedure for online courses and created a website for course sales that satisfied users' needs. Gain knowledge of and comprehension of website creation and analysis tools. The user interface of the program is intuitive and inviting. Users can now obtain satisfactory products in less time. Make payment and purchase easy by managing user information, product details, and product buyers' orders with ease. But this project needs to add more functions such as Improving the website's data security. Use artificial intelligence (AI) and machine learning to provide live chat support for students' inquiries. Using several website development models in the software development process besides the Waterfall Model: Models such as Scrum, Agile, Iterative, Spiral, and Incremental are available.