

HCMC UNIVERSITY OF TECHNOLOGY AND EDUCATION
FACULTY FOR HIGH-QUALITY TRAINING



HCMUTE

SOFTWARE PROJECT MANAGEMENT

**BUILDING AN E-COMMERCE WEBSITE
FOR SELLING SHOES/SNEAKERS**

Lecturer: Nguyễn Trần Thi Văn MSc.

Members:

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Ho Chi Minh City, May 2023

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LECTURER's COMMENTS

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Ho Chi Minh City, May 2023

Lecturer

Nguyễn Trần Thi Văn

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In successfully complete this topic and this report, we would like to extend our sincere thanks to our lecturer, Mr. Nguyen Tran Thi Van, who directly supported us throughout the process of making the topic. Thank you for giving us advices from his practical experience to guide us in the right direction with the requirements of the selected topic, always answer questions and give suggestions and corrections in time to help us overcome my shortcomings and complete the project on schedule.

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CHAPTER 1: INTRODUCTION

1.1 Description

A website designed for selling sneakers serves as an online platform that facilitates the process of purchasing shoes for customers. It provides users with the ability to browse a wide range of products through an intuitive interface that allows them to search for items by various criteria, such as color, size, style, brand, and price. Detailed product information, including images, specifications, is available for each item, enabling customers to make informed decisions about their purchases.

In order to buy products, customers need to register on the website or log in if they already have an account. Once logged in, they can add items to their shopping carts and review their orders before proceeding to checkout.

On the other hand, employees play a crucial role in the operation of the website, as they are responsible for managing orders and products.

1.2 Information survey

1.2.1 In generals

The popularity of sneaker-selling websites is on the rise globally due to the convenience and time-saving benefits of online shoe shopping. In order to capitalize on this trend, it is crucial for businesses to create efficient and effective websites that can attract customers and boost sales.

1.2.2 Survey

We have conducted a survey to assess the quality of popular websites that sell shoes. The findings of the survey are presented below:

- **Design:**

Current shoe-selling websites have diverse and rich designs. However, many websites still use outdated designs and are not suitable for mobile devices. Some websites have user-friendly and easy-to-use designs, creating a comfortable feeling for users.

CHAPTER 1: INTRODUCTION

- **Users' experience:**

The majority of shoe-selling websites offer a satisfactory user experience, particularly when it comes to product search. Nevertheless, a few websites still face challenges in optimizing the user experience for mobile devices ...

- **About the products:**

The majority of shoe-selling websites provide comprehensive and detailed information about their products. However, a few websites still lack important information such as product size and color ...

- **Product's image quality:**

The majority of shoe-selling websites use high-quality and complete product images to showcase their products. However, some websites still use low-quality or incomplete images.

1.3 Business requirements

1.3.1 Guest

- View home page
- Search and view product information
- Register account
- Sign in

1.3.2 User

- Personal information modification
- View home page
- Search and view product information
- Purchase product
- Shopping cart and payment
- Ordering and delivery information
- Sign out

1.3.3 Admin

- User management
- Product management
- Order management
- Income management

CHAPTER 2: PROJECT RELATED DOCUMENT

2.1 Project Requirement documents

2.1.1 User Interface (UI):

There must be a beautiful, user-friendly and easy-to-use interface. Websites must be optimized to increase page loading speed, reduce wait time and improve user experience.

The User Interface (UI) is a crucial aspect of any project, and it plays a key role in determining the success of the project. The UI must be designed to be user-friendly, intuitive, and easy to navigate to ensure that users can easily accomplish their tasks on the platform. This document outlines the requirements for the User Interface of a shoe-selling website

Design:

The design of the User Interface should be visually appealing, modern, and professional, with a minimalist approach. The website should have a responsive design, which adapts to different screen sizes and resolutions, providing users with a seamless experience across all devices.

Navigation:

The website should have a clear and intuitive navigation system that allows users to easily find the information they are looking for. The navigation should be consistent across all pages and should include a search bar that allows users to search for specific products.

Product Pages:

Each product page should include high-quality product images, product details, price, available sizes, colors, and customer reviews. The product pages should be optimized for search engines to ensure that they can be easily found by users.

2.1.2 Registration and login:

Registration and login are essential features of any online platform that requires user authentication. In the context of a shoe-selling website, registration and login enable users to access their accounts, save their favorite products, and complete purchases.

Registration:

The registration process should be simple and straightforward, with clear instructions and prompts for users. Users should be required to provide basic information such as their name, email address, and password to create an account.

Login:

The login process should be quick and easy, allowing users to access their accounts with minimal effort. Apply one-time password (OTP) authentication.

2.1.3 Product search:

Product search is a critical feature of any online store, including a shoe-selling website. An efficient and robust product search feature helps users locate their desired products quickly, leading to a better user experience and a higher probability of making a purchase.

Search Bar:

The website should have a prominently displayed search bar that is visible on all pages of the website. The search bar should be easy to use and intuitive, allowing users to enter keywords or phrases related to the products they are looking for.

Filtering:

The website should have a mechanism for filtering search results, enabling users to narrow down their search based on brand. The filtering mechanism should be easy to use and provide real-time feedback to users as they adjust the search criteria.

2.1.4 Product information:

Product information is a critical aspect of any shoe-selling website. It provides users with details about the products they are interested in, such as materials, size, color, and other relevant attributes. Accurate and comprehensive product information helps users make informed purchasing decisions and reduces the likelihood of returns or exchanges.

Product Description:

Each product should have a clear and concise description that accurately reflects its features and benefits. The description should be easy to read and provide information such as materials, size, and color. The description should also highlight any unique selling points, such as the product's durability, comfort, or style.

Product Images:

Each product should have high-quality images that accurately depict the product's appearance and details. The images should be clear, well-lit, and show the product from multiple angles. The website should also support zooming and panning features, allowing users to view the product in detail.

2.1.5 Shopping cart and payment:

The shopping cart and payment process are essential components of any e-commerce website, including shoe-selling websites. The shopping cart allows users to add products they want to purchase, while the payment process enables them to complete the transaction securely.

Shopping Cart:

The website should have a user-friendly shopping cart that allows users to easily add and remove products. The cart should display the product name, image, color, quantity, and price. It should also calculate the subtotal and total prices. Users should be able to edit the quantity, remove products, or clear the entire cart.

Order Confirmation:

After completing the payment, the website should send an confirmation mail that provides users with the details of their purchase, including the product name, quantity, price, and total. It should also provide the order number, delivery address.

2.1.6 Product management:

Product management is an essential component of any e-commerce website, including a shoe-selling website. It allows website administrators to manage the products available on the website, including adding, editing, and deleting products, as well as managing inventory and prices.

Product Inventory:

The website should have an inventory management system that allows website administrators to manage the stock levels of each product. Administrators should be able to view the current inventory levels for each product and set the maximum and minimum stock levels.

Product Creation:

The website should allow administrators to easily create new products by adding product information such as name, description, price, and image. The product information should be organized in a clear and concise way, making it easy for users to understand the product's features and benefits. Administrators should also be able to specify the categories and subcategories to which each product belongs.

Product Editing:

The website should allow administrators to easily edit product information such as name, description, price, and image. The system should provide a history of changes made to each product, allowing administrators to track changes and revert to previous versions if necessary. Changes made to a product should be reflected immediately on the website.

Product Deletion:

The website should allow administrators to easily delete products that are no longer available or have been discontinued. The system should prompt administrators to confirm the deletion before permanently removing the product from the website. Deleted products should no longer be visible on the website.

2.1.7 Customer support:

Customer support is an essential component of any e-commerce website, including a shoe-selling website. It allows website administrators to address any issues or concerns that users may have, as well as provide assistance with ordering, payment, and shipping.

Contact Information:

The website should prominently display contact information, such as a phone number and email address, that users can use to reach customer support. The system should also provide users with the option to submit a contact form or live chat with a customer support representative.

2.2 Project charter

Project title: Building an e-Commerce website for selling shoes/sneakers.

Project Start Date: 16/03/2023 **Project Finish Date:** 14/05/2023

Project Manager: Nguyễn Việt Anh, 20110352@student.hcmute.edu.vn

Project Objectives: Create a small shoe-selling website that allows customers to easily purchase footwear products from their mobile devices or computers. Provide useful features for customers, including product search, ordering, payment, and order tracking. Improve the shopping experience for customers and increase sales revenue for the store.

Approach: Apply Agile methodology to product development, creating value from the earliest stages of the project. Use the latest technologies and mobile application development frameworks to ensure product quality. Conduct regular evaluations and testing of the product to ensure stability and meet customer needs.

CHAPTER 2: PROJECT RELATED DOCUMENT

Roles and Responsibilities:

Table 1 Role and responsibilities

Roles	Name	Organization/Position	Contact	Sign-off
Leader	Nguyễn Việt Anh	Project leader	20110352@student.hcmute.edu.vn	Anh
Developer	Lê Y Thiện	Development team	20110403@student.hcmute.edu.vn	Thiện
Designer	Nguyễn Trung Nguyên	Design team	20110388@student.hcmute.edu.vn	Nguyên
Tester	Cao Văn Ngọc	Test team	20110385@student.hcmute.edu.vn	Ngọc

2.3 Scope statement

Project Name: Building an e-Commerce website for selling shoes/sneakers

Date: 16/03/2023

Author: Lê Y Thiện, Nguyễn Việt Anh

Project Justification: The project aims to develop an e-Commerce website for selling shoes/sneakers online to customers. This website will provide customers with a platform to search and purchase the company's shoe products.

Product Characteristics and Requirements:

1. The website will have functions for searching, filtering products, placing orders, and making online payments.
2. Customers will be able to register for an account, manage orders, and receive notifications about promotions and new products.

Summary of Project Deliverables:

1. Design of website interface.
2. Development of search and product filtering system.
3. Integration of online payment gateway.
4. Development of order and customer account management feature.
5. Construction of notification system for customers.

Requirements for evaluating the success of the project:

1. Completion of the project on schedule and overcoming technical barriers.
2. The product must be deployed in a stable manner, meet customer needs, and ensure the security of information.

2.4 Work Breakdown Structure for the project

Author: Lê Y Thiện, Nguyễn Việt Anh, Cao Văn Ngọc, Nguyễn Trung Nguyên

Date: 16/03/2023

1. Market research

- 1.1. Make research about customers.
 - 1.1.1. Research on age groups of customers
 - 1.1.2. Research on financial-situation groups of customers
- 1.2. Conduct surveys
- 1.3. Learn from Successful competitors
- 1.4. Analyze the research

2. Product Development

- 1.1. Design website interface
 - 1.1.1. Show the list of all products
 - 1.1.2. Show the detail of a product
- 1.2. Develop product filtering feature
 - 1.2.1. Develop product search feature

- 1.3. Develop online payment feature
- 1.4. Develop order and customer account management feature
- 1.5. Develop promotion and latest product notification feature

3. Infrastructure Deployment

- 3.1. Purchase, install, and configure servers
- 3.2. Install and configure database management system
 - 3.2.1. Design database
 - 3.2.2. Input data
- 3.3. Install and configure product search system
- 3.4. Install and configure online payment gateway

4. Testing and Evaluation

- 4.1. Test functionality and compatibility of application
 - 4.1.1. Test the website
 - 4.1.2. Fix the bug
- 4.2. Evaluate performance and stability of application
- 4.3. Perform integration testing
- 4.4. Ensure information security

5. Deployment and Support

- 5.1. Deploy application and system
- 5.2. Provide user guides and documentation for customers
- 5.3. Provide technical support and resolve customer inquiries.

CHAPTER 3: TIME DETERMINATION

CHAPTER 3: TIME DETERMINATION

3.1 Time distribution

Table 2 Time distribution

N.O	Job	Code	Previous job	Time (day)
1	Market research	A		3
2	Set up a development environment	B		1
3	Design user interface	C	A,B	9
4	Design database schema	D	A,B	5
5	Gather data for database	E	D	5
6	Develop a product catalog	F	C,E	3
7	Implement search functionality	G	C,E	3
8	Develop a shopping cart system	H	F	5
9	Develop a checkout process	I	H	3
10	Implement payment gateway integration	K	I	3
11	Implement order management	L	K	5
12	Develop a customer support system	M	E	7
13	Test functionality and compatibility of website	N	K,M	7
14	Implement security measures	O	N	6
15	Optimize website performance	P	O	7
16	Deploy application and system	Q	P	3

CHAPTER 3: TIME DETERMINATION

3.2 PERT Diagram

3.2.1 AOA

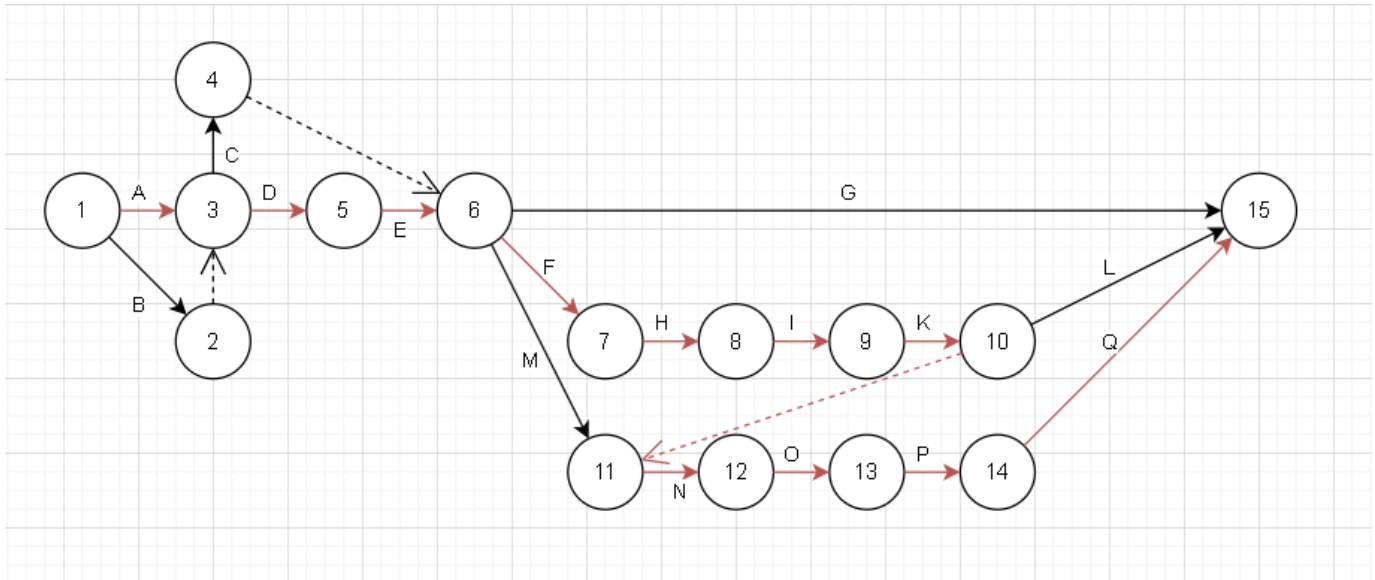


Figure 1 AOA diagram

T^S_J : Early finish time = $\max [(T^S_i + t_{ij}); (T^S_h + t_{hj}); \dots]$

T^M_j : Late finish time = $\min [(T^M_k - t_{jk}); (T^M_l - t_{jl}); (T^M_m - t_{jm}); \dots]$

GANTT Line: A → D → E → F → H → I → K → N → O → P → Q (50 days)

Table 3 AOA T_S, T_M

Node	T_S (Days)	T_M (Days)
1	0	0
2	1	3
3	3	3
4	12	13
5	8	8

CHAPTER 3: TIME DETERMINATION

6	13	13
7	16	16
8	21	21
9	24	24
10	27	27
11	27	27
12	34	34
13	40	40
14	47	47
15	50	50

CHAPTER 3: TIME DETERMINATION

3.2.2 AON

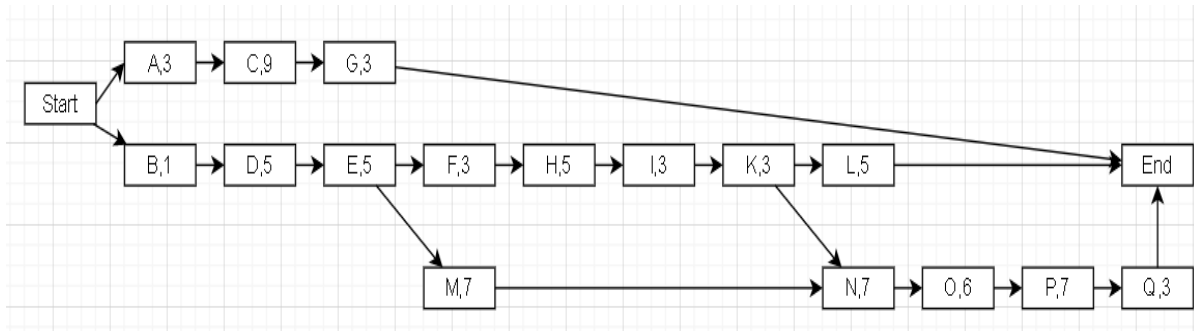


Figure 2 AON diagram

ti: Earliest time = $\max \{t_i + t_{ij}\}$

Ti: Latest time = $\max \{T_j - T_{ij}\}$

mi: Total residual = $t_j - t_i - t_{ij}$

Mi: Residual degrees of freedom = $T_i - t_i$

GRANT Line: Start → A → D → E → F → H → I → K → N → O → P → Q → End (50 days)

Table 4 AON T_s , T_M , M_i , m_i

Node	t_i (Days)	T_i (Days)	m_i (Days)	M_i (Days)
Start	0	0	0	0
A	0	0	0	0
B	0	2	2	2
C	3	38	1	35
D	3	3	0	0
E	8	8	0	0

CHAPTER 3: TIME DETERMINATION

F	13	13	0	0
G	13	47	34	34
H	16	16	0	0
I	21	21	0	0
K	24	24	0	0
L	27	45	18	18
M	13	20	7	7
N	27	27	0	0
O	34	34	0	0
P	40	40	0	0
Q	47	47	0	0
End	50	50	0	0

CHAPTER 3: TIME DETERMINATION

3.3 Work distribution

Table 5 Work distribution

N.O	Code	Description	Assigned to
1	A	Market research	Nguyen Viet Anh
2	B	Set up a development environment	All member
3	C	Design user interface	Cao Van Ngoc
4	D	Design database schema	Nguyen Trung Nguyen
5	E	Gather data for database	Nguyen Viet Anh
6	F	Develop a product catalog	Le Y Thien
7	G	Implement search functionality	Nguyen Viet Anh
8	H	Develop a shopping cart system	Le Y Thien
9	I	Develop a checkout process	Le Y Thien
10	K	Implement payment gateway integration	Le Y Thien
11	L	Implement order management	Le Y Thien
12	M	Develop a customer support system	Cao Van Ngoc
13	N	Test functionality and compatibility of website	Cao Van Ngoc
14	O	Implement security measures	Cao Van Ngoc
15	P	Optimize website performance	Nguyen Trung Nguyen
16	Q	Deploy application and system	Nguyen Trung Nguyen

CHAPTER 4: TESTING'S PLANNING AND PROCESSING

4.1 Testing's processing:

- Plan the testing activities
- Analyze and design scenarios for testing
- Set up the necessary environment and execute the testing scenarios
- Evaluate the results of testing and report the findings
- Conclude the testing activities.

4.1.1 Plan the testing activities

- Clearly define the scope of testing.
- Develop and define strategies for testing.
- Identify any risks and unforeseen factors that may impact testing.
- Determine which testing activities will be manual and which will be automated.
- Estimate the costs of testing and develop a schedule for testing.
- Identify the specific testing environment that will be used for the testing process.

4.1.2 Analyze and design scenarios for testing

- Use software functional and non-functional requirements to design test cases.
- Ensure that the test cases cover all aspects of testing for each software requirement.
- Ensure that the test cases cover all requirements identified in the testing strategies.
- If automated testing is necessary, the Test Designer will create scripts based on the test cases or test procedures

4.1.3 Set up the necessary environment and execute the testing scenarios

- Set up the required environment for running the program.
- Execute testing for each test case.
- Perform additional testing scenarios that are not explicitly defined in the test cases.
- Retest any issues that have been resolved.

CHAPTER 4: TESTING'S PLANNING AND PROCESSING

- The tester will create reports detailing the issues found during the testing process and track them until they are resolved.

4.1.4 Evaluate the results of testing and report the findings

- Create reports documenting errors and issues found during testing.
- Evaluate the test results and document any change requests.
- Measure and distribute test operation metrics.
- Develop a summary table outlining the defect detection activity.
- Determine whether the success criteria have been met and determine if testing is complete.

4.1.5 Conclude the testing activities

After all the test cases have been run, and the software has met all the requirements and specifications, the testing process is considered finished. At this point, the software is deemed ready to be released and provided to the customer for use.

4.2 Test plan

4.2.1 Goal

- A project summary that provides fundamental details about the project, its objectives, and its functional elements.
- Testing requirements that define the testing process's goals, objectives, and success criteria.
- Testing strategies that outline the specific techniques and methods that will be employed to test the software.
- Resource and cost requirements that specify the necessary resources, such as personnel, equipment, and software, and estimate the associated costs.
- Testing documents that describe the documents that will be created before, during, and after the testing process, such as test cases, test scripts, and test reports.
- Testing scope that defines the limits of the testing process, the testing techniques and methods to be employed, and how they will be applied to the software system.

4.2.2 Testing scope

- **Search and view product information**
 - Search by name.
 - Check the function to view product information:
 - View detailed product information.
 - View product images.
- **Create an account and log in**
 - Create an account.
 - Log in
 - Log in with an account.
- **Cart and cart management**
 - Check the function to add products to the cart.
 - Check the shopping cart function:
 - Change quantity when editing the cart.
 - Change the product configuration when editing the cart.
 - Check the notification in the cart when there are not enough products.
- **Product management of administrators**
 - View the list of product types.
 - Manage product information.

4.2.3 People who use the document

Test Manager, Test Designer and Tester

4.2.4 Referenced document

- Large project assignment for Software Testing course students
- Sample document for test plan
- Lecture slides for Software Testing course.

CHAPTER 4: TESTING'S PLANNING AND PROCESSING

4.2.5 Testing schedule

Table 6 Testing schedule

Task	Document	Time	Start	End
Test plan	Test Plan	1 day	19/04/2023	20/04/2023
Review documents	Test Plan	1 day	19/04/2023	20/04/2023
Design and write test cases	Testcase	2 days	21/04/2023	23/04/2023
Review test cases and set up testing environment	Testcase	1 day	23/04/2023	24/04/2023
Execute test cases	Testcase	1 days	24/04/2023	25/04/2023
Record and evaluate test results	Testcase	1 days	25/04/2023	26/04/2023

4.2.6 Resource requirements

- Hardware:
 - Personal computer
- Software:
 - IntelliJ
 - MySQL workbench
- Testing equipments:
 - Test Case Management
 - Configuration Management
 - Defect Tracking

CHAPTER 4: TESTING'S PLANNING AND PROCESSING

- Human Resources:

Table 7 Human resources

MEMBER	ROLES
Nguyễn Việt Anh	Test Manager
Lê Y Thiện	Tester
Cao Văn Ngọc	Test Designer / Tester
Nguyễn Trung Nguyên	Test Designer / Tester

CHAPTER 5: RISK MANAGEMENT AND EXPERIENCE

CHAPTER 5: RISK MANAGEMENT AND EXPERIENCE

5.1 Risk Management

5.1.1 Technical risks

Table 8 Technical risks

NO.	Risk	Risk level	Probability	Mitigation Plan
1	Incomplete requirements.	High	35%	Work closely with the customer in order to clearly and thoroughly define the requirements.
2	Handling unfamiliar technology.	Medium	30%	Conduct online research or consult with other teams.
3	Task completion delays.	High	45%	Managing time effectively and setting aside contingency time.
4	Incomplete or inadequate testing leading to undetected or late-detected errors in some functions	High	40%	Ensure comprehensive testing is conducted for each function with a well-defined testing plan to avoid errors going undetected or being detected late.

CHAPTER 5: RISK MANAGEMENT AND EXPERIENCE

5.1.2 Human risks

Table 9 Human risks

NO.	Risk	Impact	Probability	Mitigation Plan
1	Health or personal challenges.	Low	20%	Plan for extra time and create contingency plans
2	Team members' disagreement causes project delays or incomplete requirements.	Medium	40%	Maintain communication, define output requirements for each feature, address issues calmly.
3	Scheduling conflicts with other courses' final weeks.	Medium	60%	Take proactive steps to speed up project progress and ensure timely completion of tasks..

5.1.3 Actual difficulties encountered

Table 10 Difficulties encountered

NO.	Risk	Impact	Solution
1	Scheduling conflicts with other courses' final weeks.	Medium	Maintain communication between team members and the advisor through online channels (google meet).
2	Code loss due to personal computers malfunctioning	High	Each member have to commit and push all codes and report on github after done working.

CHAPTER 5: RISK MANAGEMENT AND EXPERIENCE

5.2 Experience

1. Improving time management is crucial for successfully completing the project.
2. It is important to assign tasks clearly and reasonably.
3. The expertise of the workforce needs to be improved.
4. Sufficient equipment should be prepared prior to starting the project.
5. It is important for team members to communicate more frequently to ensure the completion of tasks and achieve desired outcomes.
6. Setting clear deadlines and milestones can help with managing time effectively and keeping the project on track.
7. Providing appropriate training and development opportunities can enhance the expertise of the workforce and improve their ability to complete tasks efficiently.
8. Conducting a thorough equipment check before starting the project can help prevent delays and potential issues.
9. Encouraging open communication and addressing any issues or concerns promptly can foster a collaborative team environment and help ensure the project's success.
10. Regular progress updates and status reports can help team members stay informed about the project's progress and any changes or updates that need to be made.

CONCLUSION

CONCLUSION

Achivement:

During the development of the web sneaker project, we have gained a lot of valuable experience and knowledge that will benefit us in future endeavors. Firstly, we have learned how to manage our time more effectively by setting achievable goals and prioritizing tasks. Secondly, the project has allowed us to improve our teamwork skills by collaborating with others and delegating tasks.

We have become proficient in creating AOA and AON diagrams, which has been essential in identifying the critical path of the project and ensuring its timely completion. Moreover, the development of the web sneaker has given me experience in writing project-related documents. These documents are essential for communicating the project's progress and objectives to stakeholders and ensuring that everyone is on the same page.

The final product is a web application that is designed to provide users with an interactive and personalized shopping experience.

Strengths and weaks:

Strengths:

The team's collective knowledge and expertise in web programming. Our team members were well-prepared to tackle the technical challenges that arose during the project's development.

The project had a clear vision and set of objectives from the outset. This enabled the team to work efficiently and with a clear sense of direction and meet the deadline on time, which is a clear indication of effective time management and teamwork.

The web sneaker application is functioning correctly and includes enough features to provide users with a seamless and personalized shopping experience.

CONCLUSION

Weaks:

Personal issues and time conflicts experienced by some team members. These issues can negatively impact the project's progress and require additional effort to resolve.

Future work:

We are enthusiastic about the possibility of continuing the project's development and bringing it to the market as a viable business solution. With the team's collective expertise and knowledge, we are confident that we can further improve the application's features and functionalities to meet the demands of the market.

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REFERENCES

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TASK DISTRIBUTION

TASK DISTRIBUTION

Table 11 Task distribution

Member	Task
Nguyễn Việt Anh	Chapter 1: <ul style="list-style-type: none">- Write 1.1 Description and 1.3 Business requirements- Research for survey 1.2 Chapter 2: <ul style="list-style-type: none">- Write 2.3 Scope statement- Write 2.4 Work Breakdown Structure Chapter 3: <ul style="list-style-type: none">- Write 3.3 Work distribution Chapter 4: <ul style="list-style-type: none">- Write 4.1.1 Plan the testing activities- Write 4.2 Test plan Chapter 6 + Conclusion: Contribute Format report
Lê Y Thiện	Chapter 2: <ul style="list-style-type: none">- Write 2.3 Scope statement- Write 2.4 Work Breakdown Structure Chapter 3: Whole chapter Chapter 6 + Conclusion: Contribute
Cao Văn Ngọc	Chapter 2: <ul style="list-style-type: none">- Write 2.1 Project requirement documents- Write 2.4 Work Breakdown Structure Chapter 4: <ul style="list-style-type: none">- Write 4.1 Testing's processing Chapter 6 + Conclusion: Contribute
Nguyễn Trung Nguyên	Chapter 2: <ul style="list-style-type: none">- Write 2.2 Project charter- Write 2.4 Work Breakdown Structure Chapter 5: Whole chapter Chapter 6 + Conclusion: Contribute