



TTS3292 IT PROJECT

FUTSAL WORLD SHOP SYSTEM

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SUPERVISOR MADAM NADHIRAH

DECLARATION

Name : WAN MUHAMMAD NUR IMAN BIN WAN ISMAIl

I.D Number : ASN211010036

I confirm that the establishment of this futsal system shop is the result of my personal endeavors.

Signature :

Date: 10 august 2023

ACKNOWLEDGEMENT

Completing this project was a journey filled with gratitude. The Futsal World Shop system blossomed with the invaluable guidance of Madam Nadhirah Binti Harun, my project supervisor. Her counsel and recommendations shaped my ideas, and I appreciate the time invested in coaching and correcting my errors. Madam Nadhirah not only guided me through completing the system and report writing but also provided abundant resources and data.

A heartfelt thank you extends to my family, whose unwavering support and motivation carried me through to the very end. Professors and friends, your support, inspiration, and involvement in this project have meant the world to me.

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CHAPTER 1: INTRODUCTION AND BACKGROUND STUDY

1.1 INTRODUCTION OF PROJECT

In the pulsating realm of futsal, where passion converges with precision, emerges our project—The Futsal World Shop System. This chapter unfolds the inaugural pages of our endeavor, sketching the contours of its purpose, scope, and the vibrant tapestry it weaves within the world of futsal retail.

The Futsal World Shop System is not merely a transactional platform; it's a holistic ecosystem meticulously designed to cater to the diverse needs of futsal enthusiasts. This introduction serves as a gateway, providing insight into the project's objectives, significance, and the overarching impact it aspires to make within the futsal community.

At its core, The Futsal World Shop System is a response to the evolving demands of futsal aficionados. By seamlessly integrating cutting-edge technology with the essence of the beautiful game, we aim to redefine the futsal shopping experience. More than just a marketplace, it's a digital haven where every click resonates with the fervor of the futsal pitch.

This chapter lays the groundwork for an immersive exploration of the project's background, unraveling the threads that weave its narrative. As we embark on this journey through the world of futsal commerce, envision a space where gear meets gusto, and every purchase is a step towards elevating the futsal experience. Welcome to the genesis of The Futsal World Shop System—an innovation fueled by the love for the game.

1.2 PROBLEM STATEMENTS

Within the dynamic landscape of the futsal world, The Futsal World Shop System emerges as a response to several pressing challenges that have lingered within the community. The first obstacle lies in the limited access to specialized futsal gear, where local sports stores often fall short in providing a diverse range of high-quality equipment tailored specifically for the nuances of the game. Additionally, the futsal community grapples with fragmentation, lacking a centralized platform for interaction, discussion, and collaboration. This disconnect hampers the exchange of knowledge and the sense of camaraderie that defines the futsal culture. Moreover, the existing online shopping experience for futsal gear proves to be inefficient, with generic sports marketplaces not adequately addressing the nuanced needs of futsal players. Lastly, smaller, local futsal brands struggle with limited visibility, overshadowed by larger, more established names in the industry. The Futsal World Shop System is not merely a response; it's a comprehensive solution designed to bridge these gaps, offering accessibility, connectivity, and a seamless shopping experience for every futsal enthusiast.

1.3 PROJECT OBJECTIVES

- Optimize the Shopping Experience
- Streamlined Online Shopping Experience
- Enhanced User Interface and Experience
- Filter Capabilities
- Interactive Product Showcases

1.4 PROJECT SCOPE AND LIMITATIONS

The scope of The Futsal World Shop System encompasses a comprehensive and user-centric platform tailored to meet the diverse needs of futsal enthusiasts. The project will include:

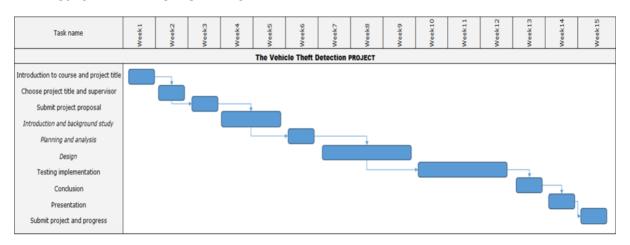
- A vast selection of specialized futsal gear, ranging from footwear and apparel to equipment and accessories.
- Integration of advanced algorithms for personalized product recommendations based on individual preferences, playing styles, and performance metrics
- Interactive Product Demos
- Social Shopping Integration

While ambitious in its scope, The Futsal World Shop System acknowledges certain limitations:

- Language Accessibility: The platform may initially be available in a specific set of languages, with gradual expansion to accommodate a broader linguistic audience.
- Technology Constraints: The effectiveness of personalized recommendations and the seamless mobile integration may be influenced by technological constraints, including device compatibility and internet connectivity.
- Internet Connectivity Issues: The success of the online platform relies on users having consistent and reliable internet connectivity. Users in areas with limited internet access may experience challenges in fully utilizing the features and services of the platform.

CHAPTER 2: PLANNING AND ANALYSIS

2.1 PROJECT PLANNING - GANTT CHART



Week 1: Assigning supervisor

• Assigned a supervisor to guide me, namely Madam Nur Nadirah Binti Harun

Week 2: Submit proposal

- Explain the overall idea/concept of my project.
- Explain problem that contributes to the development of my project.
- List all the complete objectives to be accomplished.
- Explanation on requirement of the project in details specifically for each component and software.
- Making project schedule to make everything organized.

Week 3: Survey about project

• Made a survey about this website, and got 20 respondents

Week 4: Priority tasks

• Start by assessing all the tasks on to-do Understand the deadlines, dependencies, and objectives associated with each task.

Week 5: Discuss with supervisor

• gather all relevant project documentation, such as project briefs, requirements, and any initial plans. • Familiarize yourself with the project's objectives, scope, and timeline.

Week 6: Design the interface

• Begin by understanding the purpose of the website. What are the goals and objectives that want to achieve with the website's interface

Week 7-9: Develop prototype and test prototype

- Conduct usability testing to ensure that the website is user-friendly and intuitive
- Verify that the website is responsive and adapts to different screen sizes and devices, including mobile phones and tablets.
- Review the website to ensure it meets all project requirements and objectives.

Week 10: Apply final version

• Creating the final version of a website involves a series of steps to ensure that it's ready for public access.

Week 11-13: Check if error

- Test all interactive features and functions of the website
- Gather feedback from users or stakeholders to identify any errors or issues they may have encountered while using the website.

Week 14: Final presentation and submit report

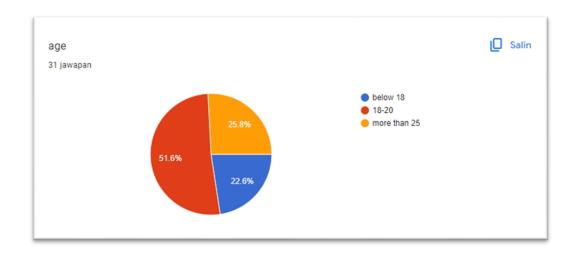
- Present the website to supervisor and accessor
- Submit report

2.2 REQUIREMENT ANALYSIS

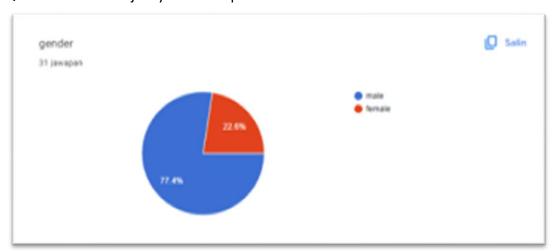
The efficiency of the availability of a system for the Futsal Fan was evaluated using a Google Form survey. The responses include students, professors, and staff.

As every student must join a club, most are awarded to students. Throughout the survey, a total of six questions were asked.

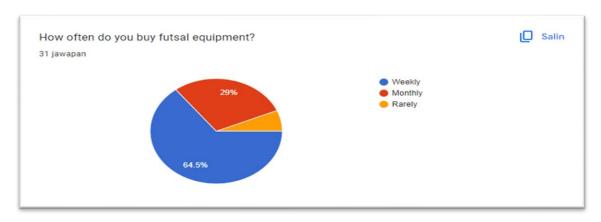
Question 1: The majority of the respondents' age are 18 and 20 since the survey is distributed a lot among the students. There are a few respondents age 25 and above.



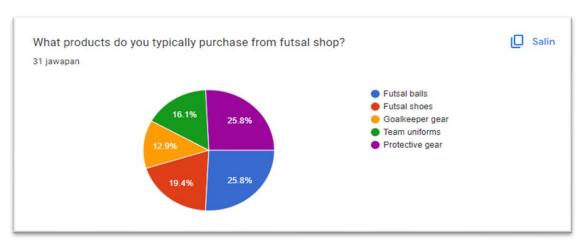
Question 2: The majority of the respondents are male.



Question 3: Most respondents says the often they buy is weekly and the other is monthly and rarely.



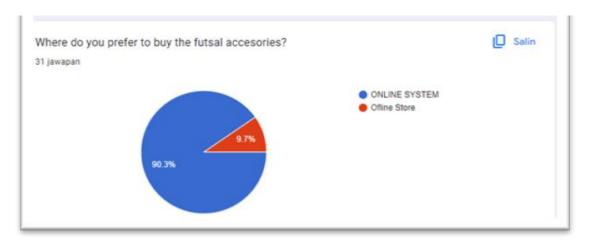
Question 4: Majority of respondents they buys futsal balls and protective gear. The other says goalkeeper and team uniform.



Question 5: Most respondents find it easier to buys product from online system store.

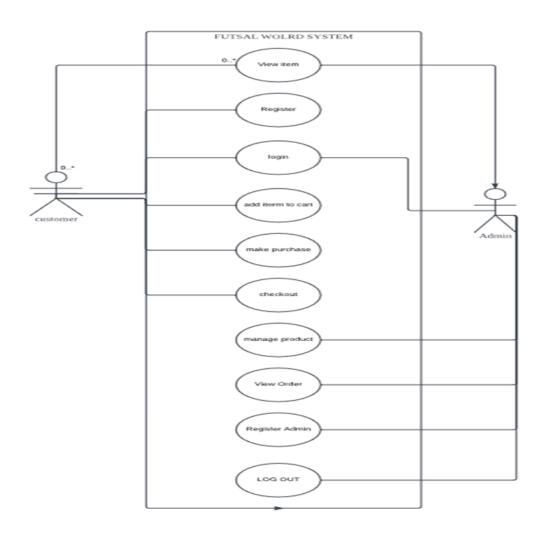


Question 6: Most respondents prefer buy futsal accesories in Online System than Offline Store

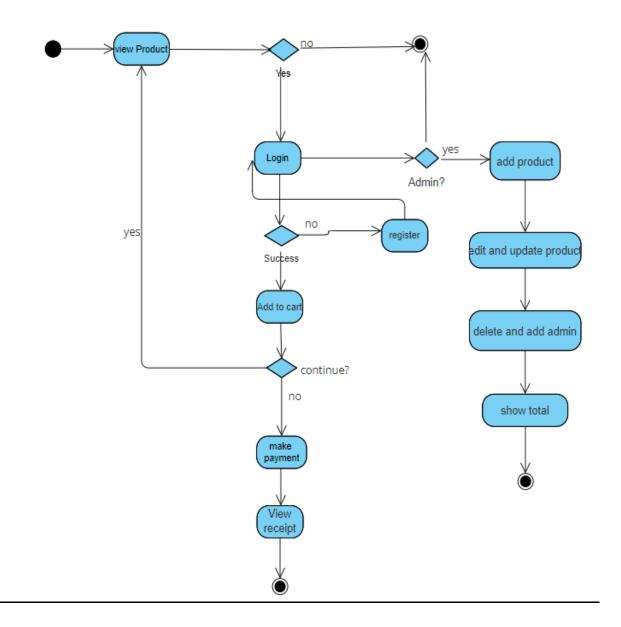


2.3 SYSTEM ANALYSIS

Use Case Diagram



Activity Diagram



CHAPTER 3: DESIGN

3.1 SOFTWARE AND HARDWARE REQUIREMENT

Hardware Requirements

Processor: Intel(R) Core(TM) i5-7200U CPU @ 2.50GHz 2.70 GHz

• RAM: 8.00 GB

• System Type: 64-bit operating system, x64-based processor

• Operating System: Windows 10 Pro

• GPU: NVIDIA GeForce GTX 950m

Software Requirements

• Integrated Development Environment (IDE): Visual Studio Code

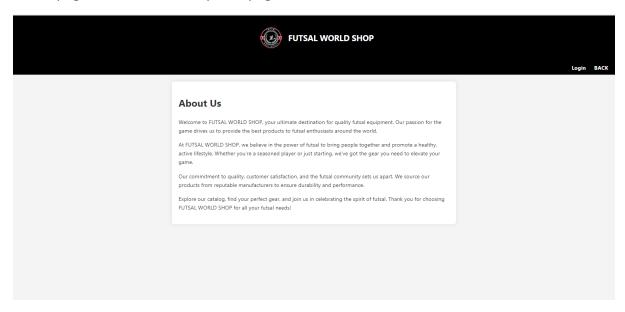
• Web Server: XAMPP

3.2 INTERFACE DESIGN

Home Tab: This is the main page of the GSS Club Information System. Users can click the 'Login' button to log in.

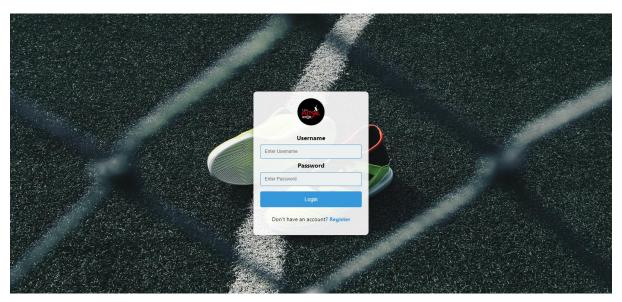


About page: This is about us system page.

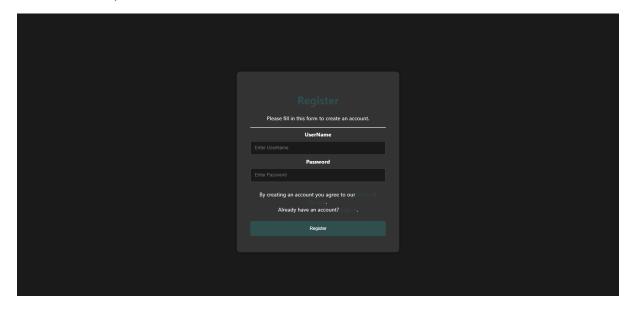


Customer Interface

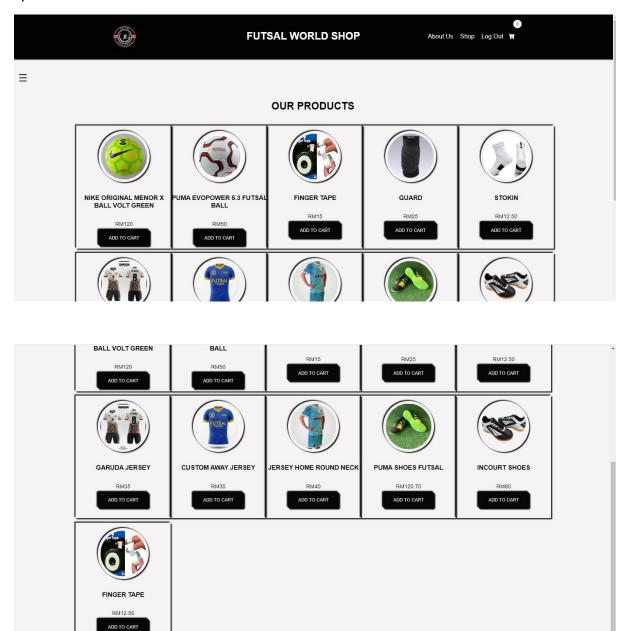
Login page for customer: Customer can click the 'Login' to log in. Then, enter username and password.



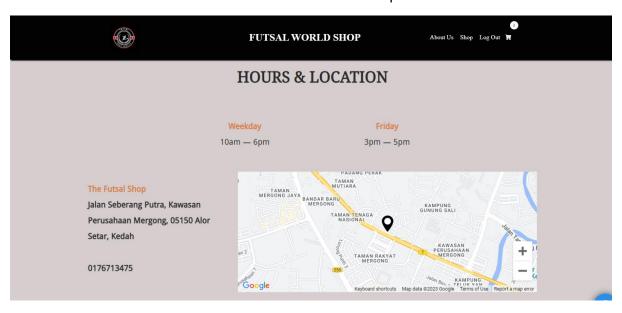
Register page for Customer: Customer can register account for this system by enter username and password



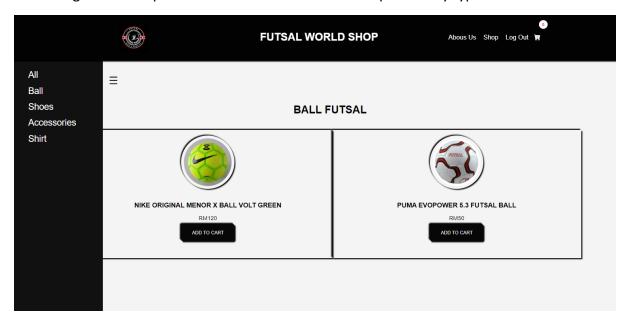
Customer Indeks: This is the main page for the customer, it will display the product that our system sells.

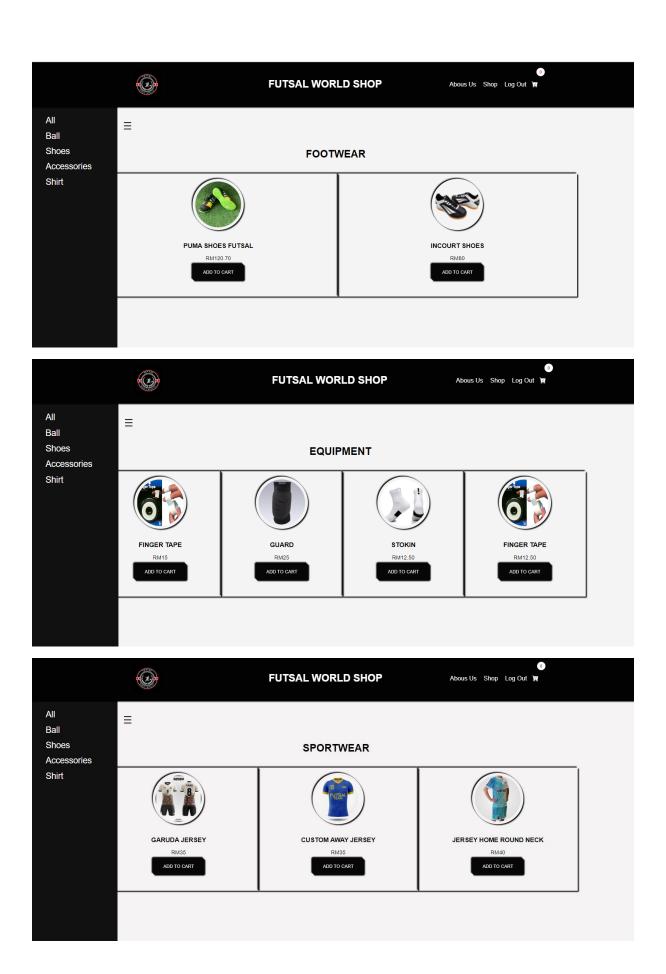


About Us Customer: The detail to customer about our shop.

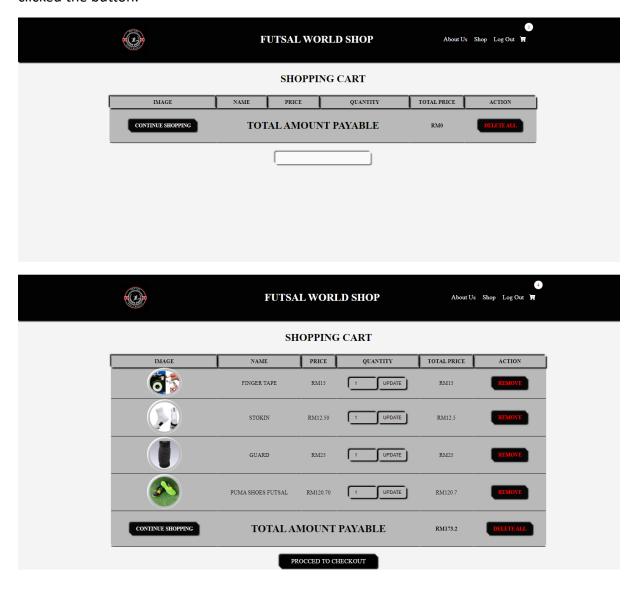


Filters Page: Filter Capabilities for customer to filter the product by type.

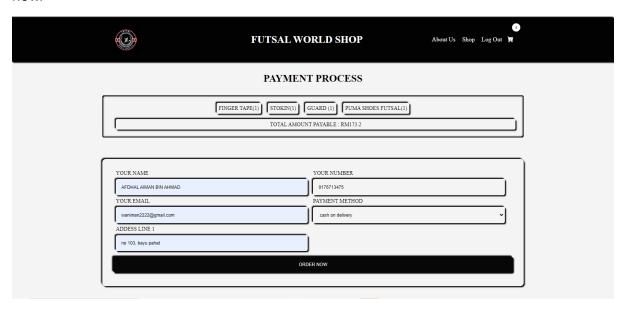




Cart Shopping: Customer can add product to cart and edit quantity and delete by just clicked the button.



Payment Page: Customer payment form, Customer need to fill the form and make order now.

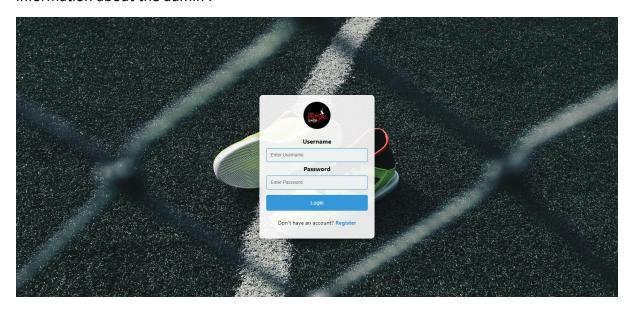


Receipt Form for the customer after make payment.



Administrators Interface

Login admin page: Admin login using the customer login, admin just need to fill the information about the admin .



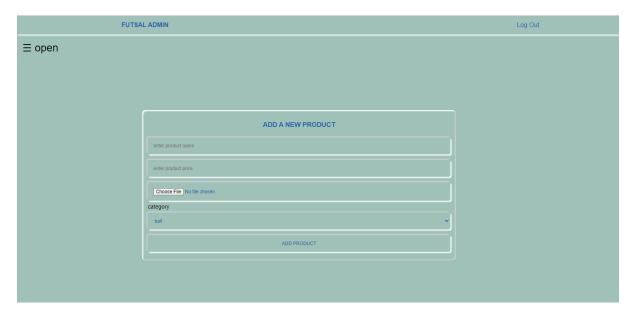
Admin Interface: An indeks for admin page after login.



Product details for admin, admin can edit and delete the product information like name price and image.



Admin add product page, admin need to click on the + button on top right on the interface , and then fill the form information.

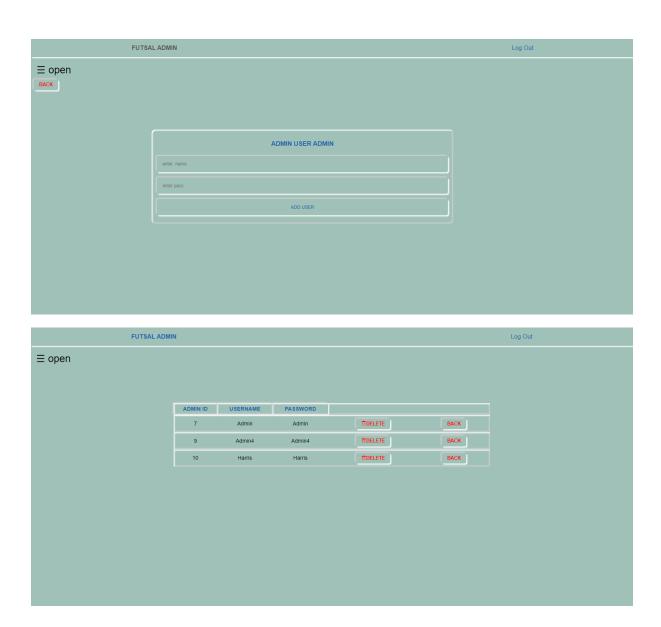


Admin show order and purchase detail, admin can see all the detail from customer and the product that the customer buys.



Admin can add and delete admin account,.





This is the report page for the admin, so the admin doesnt need to calculate the total purchase from the customer.



CHAPTER 4: TESTING AND IMPLEMENTATION

4.1: TESTING AND IMPLEMENTATION

Testing

During the Futsal World Shop System testing phase, security, reliability, and usability are the primary objectives. The system must be able to function without interruption. The system's functionality for customer and administrators is contingent upon its security. For the system, administrators have more power. Then comes usability. Members must be able to utilize the system with ease, and the system must function correctly. Reliability and security testing may be addressed by creating a few test cases and comparing the expected result with the actual outcome. In addition to adding, removing, updating, and modifying the system or website's data, testing also covered these operations. Administrators may test by adding members, editing members, removing members, watching activities, editing activities, removing activities, seeing reports, downloading reports, and removing reports. Customer can add product to cart and make payment and view receipt payment. The database must store the information correctly.

Implementation

In the third phase of the Software Development Life Cycle (SDLC), we delve into the implementation and coding stage. This follows the initial step of gathering and analyzing requirements, where crucial project information is compiled. A significant challenge encountered during this phase revolves around time constraints, acting as a major obstacle. The implementation process is not only time-consuming but demands meticulous coordination to ensure seamless execution.

One notable hurdle faced is rooted in the comprehension and application of programming languages such as CSS, JavaScript, and PHP. The integration of the database with CSS and JavaScript, forming the foundation of the core user interface package, necessitates a considerable investment of time and effort. Learning and implementing the intricate code required for this integration poses a substantial challenge, adding a layer of complexity to the implementation stage.

CHAPTER 5: CONCLUSION

5.1 REFLECTION

Completing the Futsal World Shop System project within a span of 14 weeks has provided me with valuable insights into the intricate world of system development. One notable realization is the laborious nature of this process, requiring developers to approach challenges from multiple perspectives and consider every potential avenue to enhance the end-user experience. This demanding procedure demands a broad spectrum of general knowledge and robust problem-solving skills, making it particularly time-consuming and potentially stressful for individuals new to the field.

Throughout this journey, I've deepened my understanding of various programming languages, discerning both their advantages and drawbacks in specific development contexts. Exploring the functionality and development of libraries, understanding syntax nuances, and grappling with numerous other concepts have further enriched my knowledge base. Time constraints emerged as a consistent obstacle in the project's completion, emphasizing the need for enhanced competence in system development.

The primary challenge surfaced during the learning curve of CSS and JavaScript programming languages, a hurdle that compelled me to deviate slightly from the initial plan due to time constraints. This adjustment resulted in the omission of certain features, such as a search filter for administrators and a timestamp for member reports. Despite these challenges, the project stands as a success, meeting most of its objectives—simplifying buying product from online. As a Devoloper, the Futsal World Shop System proves to be a valuable asset, operating seamlessly with minimal memory consumption.

Reflecting on the development process, I acknowledge the importance of effective time management. If given the opportunity to redo the process, I would prioritize critical aspects, ensuring a more organized allocation of time to add additional features and enhance the visual appeal of the website. The Futsal World Shop System stands as a testament to the iterative nature of software development, and the lessons learned will undoubtedly shape my approach to future projects.

5.2 RECOMMENDATION

The Futsal World Shop System comes highly recommended for administrators and customer seeking an efficient platform to manage and streamline data. Designed with user-friendliness in mind, this system offers flexibility, systematic organization, and substantial time-saving capabilities. As a result, administrators and customer of the futsal community can harness the full potential of this system, making data management a seamless and productive experience.

5.3 FUTURE IMPROVEMENT

The first thing I would like to do is design the website to be more attractive so it can be user-friendly. Then, for the member's interface, I would like to:

Augmented Reality (AR) Try-On:

Explore the integration of AR technology to allow users to virtually try on futsal shoes and apparel before making a purchase.

AI-Powered Customer Support:

Implement Al-powered chatbots for customer support to provide instant assistance, answer queries, and guide users through the shopping process.

Expanded Product Range:

Continuously expand the product range to offer a wider variety of futsal-related items, including limited edition releases and exclusive collaborations.

User Feedback Mechanism:

Implement a user feedback mechanism to gather insights on user experience and product satisfaction. Regularly analyze feedback to identify areas for improvement and address user concerns.

Mobile Responsiveness:

Enhance the mobile responsiveness of the website to ensure a seamless experience for users accessing the platform from various devices.

Personalized Recommendations:

Integrate a recommendation engine to provide personalized product suggestions based on user preferences, purchase history, and browsing behavior.

Enhanced Community Features:

Expand community features to encourage user interactions, such as forums, discussion boards, and user-generated content. Foster a sense of community among futsal enthusiasts through engaging activities and challenges.

REFERENCES

- https://www.w3schools.com/ (For color picker and font css)
- https://stackoverflow.com/ (Forum that help people)
- https://thebootsmania.com/ (For knowing about futsal product)

APPENDICES

Appendix I: Survey through Google Form

FUTSAL WORLD SHOP SYSTEM					
asn211010036@student.kptm.edu.my Switch account Not shared	⊘				
age below 18 18-20 more than 25					
gender male female					

How often do you buy futsal equipment? Weekly Monthly Rarely What products do you typically purchase from futsal shop? Futsal balls
Monthly Rarely What products do you typically purchase from futsal shop?
Rarely What products do you typically purchase from futsal shop?
What products do you typically purchase from futsal shop?
O Futsal balls
O Futsal shoes
Goalkeeper gear
○ Team uniforms
O Protective gear
Do you think system will make your life easier to buy the product?
○ Yes
O No
0 140
Where do you prefer to buy the futsal accesories?
ONLINE STORE
O OFFLINE STORE
Submit Clear form

	A	В	С	D	E	F	G	Н
	Timestamp	age	gender	How often do you buy fu	t What products do you ty	Do you think system will	Where do you prefer to bu	y the futsal accesories?
_	15/10/2023 10:22:39	below 18	male	Weekly	Futsal balls	Yes	ONLINE SYSTEM	
	15/10/2023 10:23:03	18-20	male	Weekly	Futsal shoes	Yes	ONLINE SYSTEM	
	15/10/2023 10:23:29	18-20	female	Weekly	Goalkeeper gear	Yes	Ofline Store	
	15/10/2023 10:23:47	more than 25	male	Monthly	Team uniforms	Yes	ONLINE SYSTEM	
	15/10/2023 10:24:01	below 18	male		Protective gear	Yes	ONLINE SYSTEM	
	15/10/2023 10:24:18	18-20	female	Weekly	Protective gear	Yes	ONLINE SYSTEM	
	15/10/2023 10:24:29	18-20	male	Weekly	Futsal balls	Yes	ONLINE SYSTEM	
	15/10/2023 10:24:46	18-20	male	Monthly	Team uniforms	Yes	ONLINE SYSTEM	
	15/10/2023 10:25:11	below 18	male	Weekly	Futsal shoes	No	ONLINE SYSTEM	
	15/10/2023 10:25:21	18-20	male	Weekly	Protective gear	Yes	ONLINE SYSTEM	
	15/10/2023 10:25:32	more than 25	male	Weekly	Team uniforms	Yes	ONLINE SYSTEM	
3	15/10/2023 10:26:29	18-20	male	Monthly	Protective gear	Yes	ONLINE SYSTEM	
	15/10/2023 10:26:44	more than 25	male	Weekly	Futsal balls	Yes	ONLINE SYSTEM	
	15/10/2023 10:27:02	18-20	male	Weekly	Futsal shoes	Yes	ONLINE SYSTEM	
3	15/10/2023 10:27:15	more than 25	male	Weekly	Goalkeeper gear	Yes	ONLINE SYSTEM	
7	15/10/2023 10:27:31	more than 25	male	Monthly	Protective gear	Yes	ONLINE SYSTEM	
3	15/10/2023 10:27:54	18-20	female	Weekly	Protective gear	Yes	ONLINE SYSTEM	
9	15/10/2023 10:28:18	18-20	male	Weekly	Futsal shoes	Yes	ONLINE SYSTEM	
	15/10/2023 10:28:50	18-20	male	Weekly	Futsal balls	Yes	ONLINE SYSTEM	
	15/10/2023 10:29:15	18-20	male	Rarely	Team uniforms	Yes	ONLINE SYSTEM	
2	15/10/2023 10:29:39	more than 25	male	Weekly	Protective gear	Yes	ONLINE SYSTEM	
	15/10/2023 10:29:50	more than 25	male	Monthly	Protective gear	Yes	ONLINE SYSTEM	
	15/10/2023 11:37:21	18-20	male	Monthly	Futsal shoes	Yes	ONLINE SYSTEM	
5	15/10/2023 11:37:34	more than 25	female		Futsal shoes	Yes	ONLINE SYSTEM	
6	15/10/2023 11:37:47	below 18	female	Weekly	Futsal balls	Yes	ONLINE SYSTEM	
	15/10/2023 11:38:00	18-20	female	Rarely	Futsal balls	No	Ofline Store	
	15/10/2023 11:38:14	18-20	male	Monthly	Goalkeeper gear	No	ONLINE SYSTEM	
9	15/10/2023 11:38:23	below 18		Weekly	Futsal balls	No	ONLINE SYSTEM	
0	15/10/2023 11:38:34	below 18	female	Weekly	Futsal balls	Yes	Ofline Store	
1	15/10/2023 11:38:44	below 18	male	Weekly	Goalkeeper gear	Yes	ONLINE SYSTEM	
2	15/10/2023 11:38:52	18-20		Monthly	Team uniforms	Yes	ONLINE SYSTEM	