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Introduction

Our coursework project revolved around developing the University Magazine Contribution Management System (UMCMSTTM), a role-based platform designed to streamline student contributions collection, management, and publication at our university. As part of the team, our collaborative efforts were instrumental in conceptualising, developing, and implementing this comprehensive solution. In this essay, I'll delve into my role in the design and development phases of UMCMSTTM, offering insights into the system's architecture, core functionalities, evaluation process, and prospects.

Within our team, I assumed the role of the Web Designer, Scrum Master, Product Owner, and Tester. Leveraging the principles of the Scrum methodology, we fostered a culture of collaboration, transparency, and adaptability. Weekly meetings were meticulously documented, capturing essential discussions, user stories, and sprint backlogs, ensuring alignment with project objectives and timelines. The diverse skill set of our team members, including programmers, web designers, and testers, complemented our collective effort in developing UMCMSTTM.

UMCMSTTM stands as a robust role-based system engineered to cater to the diverse needs of stakeholders involved in the magazine contribution process. With a strong emphasis on security, user-friendliness, and role-based access control, the system facilitates seamless collaboration among students, marketing coordinators, marketing managers, administrators, and guests. Core functionalities include submission management, submission lifecycle management, faculty-level access, administrative control, guest access, and statistical analysis, meticulously designed to optimise the magazine contribution workflow.

Throughout the development process, I thoroughly evaluated our methodologies and the efficacy of the Scrum framework. An in-depth analysis of each team member's contributions, supported by an Excel spreadsheet for rating, provided valuable insights into individual strengths and areas for improvement. Additionally, I assessed our collective efforts, presentation quality, and the alignment of the final product with project requirements.

Looking ahead, UMCMSTTM holds significant potential for further enhancements and refinements. Future developments may include advanced statistical analysis capabilities, enhanced user interface features, integration with external systems, and support for additional user roles or functionalities. By embracing a culture of continuous improvement and innovation, UMCMSTTM remains poised to evolve in tandem with the changing needs of its stakeholders.

To sum up, our development journey with UMCMSTTM exemplifies the collaborative spirit, technical prowess, and adherence to best practices in agile software development. Through effective communication, meticulous planning, and a commitment to excellence, our team successfully delivered a high-quality solution that meets the needs of its users. As the project evolves, UMCMSTTM is a testament to the power of teamwork, innovation, and continuous improvement in software development endeavours.

The Appendix contains some screenshots of our project.

1. Evaluation Of The Product

The meticulously crafted product, aptly named University Magazine Contribution Management System (UMCMSTTM), is a testament to our team's dedication to fulfilling a comprehensive array of client requirements. Demonstrating seamless functionality observable on the website, our platform serves as the quintessential hub for gathering student contributions. Throughout the development phase, our strategic selection of technologies, including ReactJs, TypeScript, and Tailwind CSS for Frontend development, alongside NestJS, Typescript, and SwaggerAPI for Backend creation, epitomises our unwavering commitment to efficiency and user satisfaction. These technologies were meticulously chosen for their innate capacity to deliver a seamless and intuitive user experience, aligning perfectly with our client's objectives.

The expeditious integration of pivotal features, such as article submission and high-resolution image uploads, speaks volumes to our proactive approach to addressing the client's urgent needs. Additionally, the seamless implementation of a messaging system, fostering student-coordinator chat, underscores our precision and attention to detail. Noteworthy is the system's ability to empower the marketing manager to publish student articles and feedback from coordinators, further highlighting the platform's robust functionality and versatility.

Our adherence to Agile principles, particularly within the Scrum framework, guided our development journey with an incremental and iterative approach. This methodological framework served as a cornerstone in managing the intricacies of client requirements, ensuring a systematic and organised development process. By breaking down tasks into manageable units and prioritising based on feasibility and impact, as facilitated by product backlogs, we maintained a laser focus on delivering tangible results promptly. The initial sprints were strategically dedicated to enabling marketing coordinators to provide feedback on student contributions and empowering students to edit their submissions, fostering iterative refinement and meticulous testing to uphold the reliability and robustness of implemented functionalities.

Moreover, our unwavering commitment to continuous improvement was palpable throughout the development cycle. Our agility and adaptability in responding to evolving client needs and insights underscored our proactive stance in driving innovation and excellence. As the project developed, adjustments and refinements were seamlessly integrated, ensuring alignment with evolving client expectations and industry standards.

The development of UMCMSTM epitomises the effectiveness of Agile methodologies in delivering client-centric solutions. We met and surpassed client expectations through meticulous planning, iterative development, and a steadfast focus on essential functionalities. Our collaborative efforts underscore the importance of effective communication, adaptability, and a relentless pursuit of excellence in software development endeavours. As we continue to innovate and refine our platform, UMCMSTM stands poised to redefine magazine management systems, setting new benchmarks for excellence in the domain.

1.1. The Positive Aspects of User Experience in the Project

In the project overview, the positive aspects of user experience are a key focus. This section highlights how UMCMSTM prioritises a seamless and intuitive user experience for all stakeholders. By incorporating modern design principles and user-friendly interfaces, the system ensures that users can easily navigate its features and accomplish their tasks efficiently. The platform's user-centric approach contributes to enhanced collaboration, effective communication, and satisfaction across the board. Let's delve into the specific ways in which UMCMSTM excels in providing a positive user experience.

1.1.1. Usability Heuristics

The UMCMSTM system offers myriad benefits that significantly enhance the user experience, streamline managing student contributions, and provide additional functionalities for the university magazine.

To refine the interface aesthetics and enhance overall usability, we have strategically employed the Heuristic principles outlined by (Nielsen & Mack, Usability inspection methods, 1994) and (Nielsen & Molich, Heuristic

evaluation of user interfaces, 1990). These Heuristics serve as guiding frameworks, meticulously integrated into the design process to ensure the visual appeal of the interface and its functional effectiveness. By leveraging the insights provided by these esteemed researchers, our design approach aims to optimise user experience and foster intuitive interaction with the system. Through the judicious application of heuristic principles, we endeavour to create an interface that not only meets but exceeds user expectations, thereby elevating the overall quality of the user interface:

- **Visibility of system status:** In UMCMS™, clear page titles ensure users know their location and tasks, improving navigation and usability for a smoother experience (*refer to Figure 1 for illustration*).

The screenshot shows the UMCMS™ homepage. At the top left is the logo 'UMCMS™' with a cloud icon. To its right are links for 'Home', 'Contribute articles', 'Manage contributions', 'Manage Profile', and 'Help'. On the far right is a 'SIGN OUT' button. Below the header, a breadcrumb trail 'Home > All Magazine' is visible. The main title 'All Magazine' is centered above a light gray content area.

Figure 1: Visibility of system status in the project

- **Match between the system and the real world:** Clear and concise text enhances user navigation in a diverse educational context. Logical organisation of page elements, like submission forms, minimises confusion and ensures a cohesive user experience, especially for non-English speakers (*Figure 2*).

The screenshot shows a submission form titled 'All Magazine'. It has two main sections: 'TITLE' and 'DESCRIPTION'. Under 'TITLE', there is a field labeled 'Input Title'. Under 'DESCRIPTION', there is a field labeled 'Input Description'. Below these are two file upload sections: 'UPLOAD IMAGE FILE' with 'DROP IMAGE FILE HERE' and 'BROWSE' buttons, and 'UPLOAD WORD FILE' with 'DROP WORD FILE HERE' and 'BROWSE' buttons. At the bottom of the form is a section titled 'CLOSE TERM AND POLICES' containing a list of five submission guidelines:

1. ACCEPTED FILE TYPES: WE ONLY ACCEPT WORD FILES (.DOCX) AND PNG IMAGES (.PNG) FOR SUBMISSION.
2. OWNERSHIP OF CONTENT: YOU MUST ENSURE THAT YOU ARE THE AUTHOR AND OWNER OF THE SUBMITTED CONTENT. PLAGIARISM OR SUBMITTING CONTENT WITHOUT PROPER AUTHORIZATION IS STRICTLY PROHIBITED.
3. USE OF SUBMITTED CONTENT: BY SUBMITTING A FILE, YOU GRANT US THE NON-EXCLUSIVE RIGHT TO USE, REPRODUCE, AND DISTRIBUTE THE CONTENT FOR THE PURPOSE OF EVALUATING SUBMISSIONS AND IMPROVING OUR SERVICES.
4. ACCURACY OF INFORMATION: YOU ARE RESPONSIBLE FOR THE ACCURACY AND LEGALITY OF THE CONTENT YOU SUBMIT. ANY MISLEADING OR FRAUDULENT INFORMATION WILL RESULT IN THE REJECTION OF YOUR SUBMISSION AND MAY LEAD TO FURTHER ACTIONS.
5. COMPLIANCE WITH LAWS: YOU MUST COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS WHEN SUBMITTING CONTENT. THIS INCLUDES BUT IS NOT LIMITED TO COPYRIGHT LAWS, PRIVACY LAWS, AND LAWS GOVERNING THE DISTRIBUTION OF SENSITIVE INFORMATION.

Figure 2: Match between the system and the real world in the project

- **User control and freedom:** Consistency in design is crucial for user-friendly interactions. The navigation bar will remain fixed across all pages, providing users with a reliable means of navigation. Additionally, users can quickly return to the homepage by clicking on the UMCMS™ logo, a common practice in web design. This ensures quick error correction and enhances user confidence, streamlining the overall experience within the University Magazine Contribution Management System (UMCMST™) (*Figure 3*).



Figure 3: User control and freedom in the project

- **Consistency and standards:** The UMCMS™ prioritises user-friendliness and consistency in design. Through Tailwind CSS, elements remain fixed, ensuring a predictable experience. Strategic placement of features like the "OK" button enhances usability, aiming for improved user comprehension and navigation efficiency within the system. (*refer to Figure 4*).

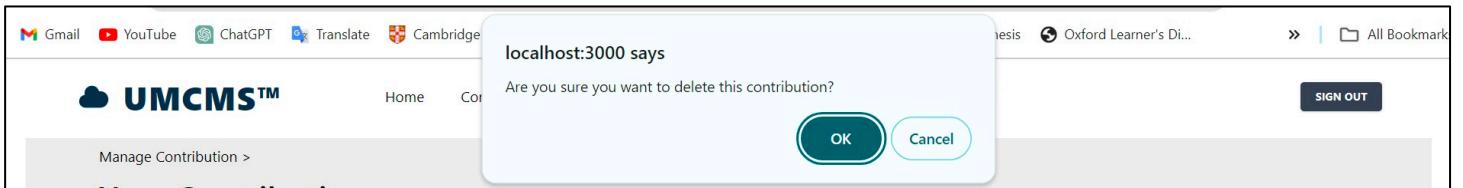


Figure 4: Consistency and standards in the project

- **Error prevention:** Incorporating validation mechanisms into the University Magazine Contribution Management System (UMCMST™) is essential for enhancing user experience. These mechanisms provide immediate feedback on errors or omissions in required fields, empowering users to rectify issues promptly. For example, incomplete fields on the contribution page prompt users to take corrective action swiftly. This proactive approach simplifies user interactions, leading to a smoother, more error-free experience with UMCMS™ (*see Figure 5*).

Figure 5: Error prevention in the project

- **Recognition rather than recall:** Enhancing user experience in UMCMS™ involves seamless information retrieval and contextual guidance. Users won't need to remember data across sections; UMCMS™ will retrieve it autonomously. This aids tasks like article posting, ensuring comprehensive system operation coverage and secure task execution. By facilitating smooth information retrieval and transparent recommendations, UMCMS™ aims to enhance user engagement and satisfaction, improving overall experience (*Figure 6*).

IMAGE	TITLE	DESCRIPTION	STATUS	COMMENT	ACTION
	Article9_ChiTrien	Peer tutoring and mentoring programs allow students to support each other academically, fostering a culture of academic excellence.	Pending	<button>Comment</button>	
	Article6_ChiTrien	Extracurricular activities organized by students enrich campus life and foster a sense of community among their peers.	Approved	<button>Comment</button>	
	Article8_ChiTrien	Extracurricular activities organized by students enrich campus life and foster a sense of community among their peers.	Published	<button>Comment</button>	

Figure 6: Recognition rather than recall in the project

- **Flexibility and efficiency of use:** Facilitating seamless navigation is crucial for enhancing the user experience in UMCMS™. Users can effortlessly move between pages by clicking on titles in the navigation bar. This simple functionality improves navigation efficiency and allows users to transition between different sections of UMCMS™ without interruption, enhancing productivity and workflow (*see Figure 7 for reference*).



Figure 7: Flexibility and efficiency of use in the project

- **Aesthetic and minimalist design:** Adopting a minimalist design approach can significantly improve the usability of UMCMS™. Users can navigate and complete tasks efficiently without feeling overwhelmed by reducing clutter and complexity. UMCMS™ will prioritise simplicity by displaying only essential elements relevant to the user's workflow. Additionally, a cohesive colour scheme will enhance the visual appeal of the interface, creating a visually engaging user experience where colours complement each other seamlessly (*refer to Figure 8 for visual representation*).

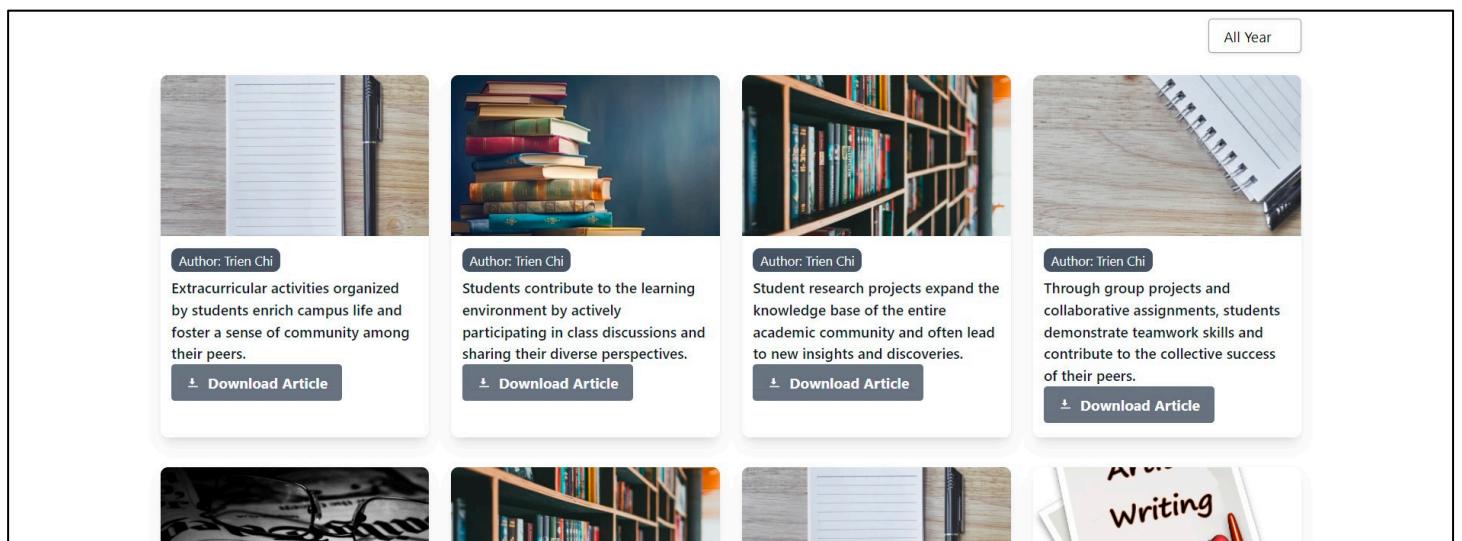


Figure 8: Aesthetic and minimalist design in the project

- **Help users recognise, diagnose, and recover from errors:** Effective error handling is vital for UMCMS™, ensuring a smooth user experience. Prompt identification of errors allows the system to offer informative guidance to users. For example, if users fail to agree to terms and conditions, clear prompts will guide them. Strategic prompts throughout UMCMS™ aid users in navigating and completing tasks efficiently, enhancing overall usability (*refer to Figure 9 for visual representation*).

CLOSE TERM AND POLICES

1. ACCEPTED FILE TYPES: WE ONLY ACCEPT WORD FILES (.DOCX) AND PNG IMAGES (.PNG) FOR SUBMISSION.

2. OWNERSHIP OF CONTENT: YOU MUST ENSURE THAT YOU ARE THE AUTHOR AND OWNER OF THE SUBMITTED CONTENT. PLAGIARISM OR SUBMITTING CONTENT WITHOUT PROPER AUTHORIZATION IS STRICTLY PROHIBITED.

3. USE OF SUBMITTED CONTENT: BY SUBMITTING A FILE, YOU GRANT US THE NON-EXCLUSIVE RIGHT TO USE, REPRODUCE, AND DISTRIBUTE THE CONTENT FOR THE PURPOSE OF EVALUATING SUBMISSIONS AND IMPROVING OUR SERVICES.

4. ACCURACY OF INFORMATION: YOU ARE RESPONSIBLE FOR THE ACCURACY AND LEGALITY OF THE CONTENT YOU SUBMIT. ANY MISLEADING OR FRAUDULENT INFORMATION WILL RESULT IN THE REJECTION OF YOUR SUBMISSION AND MAY LEAD TO FURTHER ACTIONS.

5. COMPLIANCE WITH LAWS: YOU MUST COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS WHEN SUBMITTING CONTENT. THIS INCLUDES BUT IS NOT LIMITED TO COPYRIGHT LAWS, PRIVACY LAWS, AND LAWS GOVERNING THE DISTRIBUTION OF SENSITIVE INFORMATION.

6. INDEMNIFICATION: YOU AGREE TO INDEMNIFY AND HOLD HARMLESS OUR ORGANIZATION, ITS AFFILIATES, AND EMPLOYEES FROM ANY CLAIMS, DAMAGES, OR LIABILITIES ARISING OUT OF YOUR SUBMISSION OR VIOLATION OF THESE TERMS AND POLICIES.

7. MODIFICATION OF TERMS: WE RESERVE THE RIGHT TO MODIFY THESE TERMS AND POLICIES AT ANY TIME WITHOUT PRIOR NOTICE. IT IS YOUR RESPONSIBILITY TO REVIEW THESE TERMS PERIODICALLY FOR ANY CHANGES.

AGREE TO TERM AND POLICIES

Figure 9: Help users recognise, diagnose, and recover from errors in the project

- **Help and documentation:** UMCMS™ prioritises concise assistance documentation, offered selectively when necessary to avoid overwhelming users with irrelevant information. Instructions are strategically placed on relevant pages within the interface, seamlessly integrated to aid users without disrupting their workflow. This approach fosters a smooth and user-friendly experience across the system (*see Figure 10 for visual representation*).

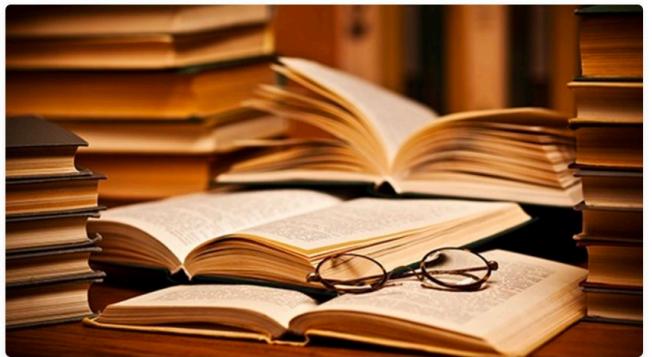
 **UMCMS™**

Home Contribute articles Manage contributions Manage Profile Help **SIGN OUT**

Welcome To The University Magazine Contribution Management System (UMCMS™)

 **Submission Management**

Students can easily submit articles as Word documents and upload high-quality images directly through the system. Submission is subject to agreeing to predefined Terms and Conditions, ensuring compliance and legal clarity.



 **Role-Based Access Control**

UMCMS™ accommodates various user roles, including students, faculty marketing coordinators, the University Marketing Manager, guests, and administrators. Each role is assigned specific privileges and responsibilities tailored to their respective functions within the magazine contribution process.

 **Statistical Analysis**

UMCMS™ offers robust statistical analysis capabilities, providing insights such as the number of contributions per Faculty, helping stakeholders understand participation levels and trends.

Figure 10: Help and documentation in the project

1.1.2. Usability

In line with the principles outlined by (Nielsen & Mack, Usability inspection methods, 1994), The UMCMS™ website development strategy prioritises optimal usability, covering both frontend design and backend code architecture. Our goal is a user-friendly experience across platforms, achieved through responsive design. Rigorous testing, including simulations with Google Chrome developer tools, ensures consistent device performance. (*refer to Figure 11 for visual representation*).

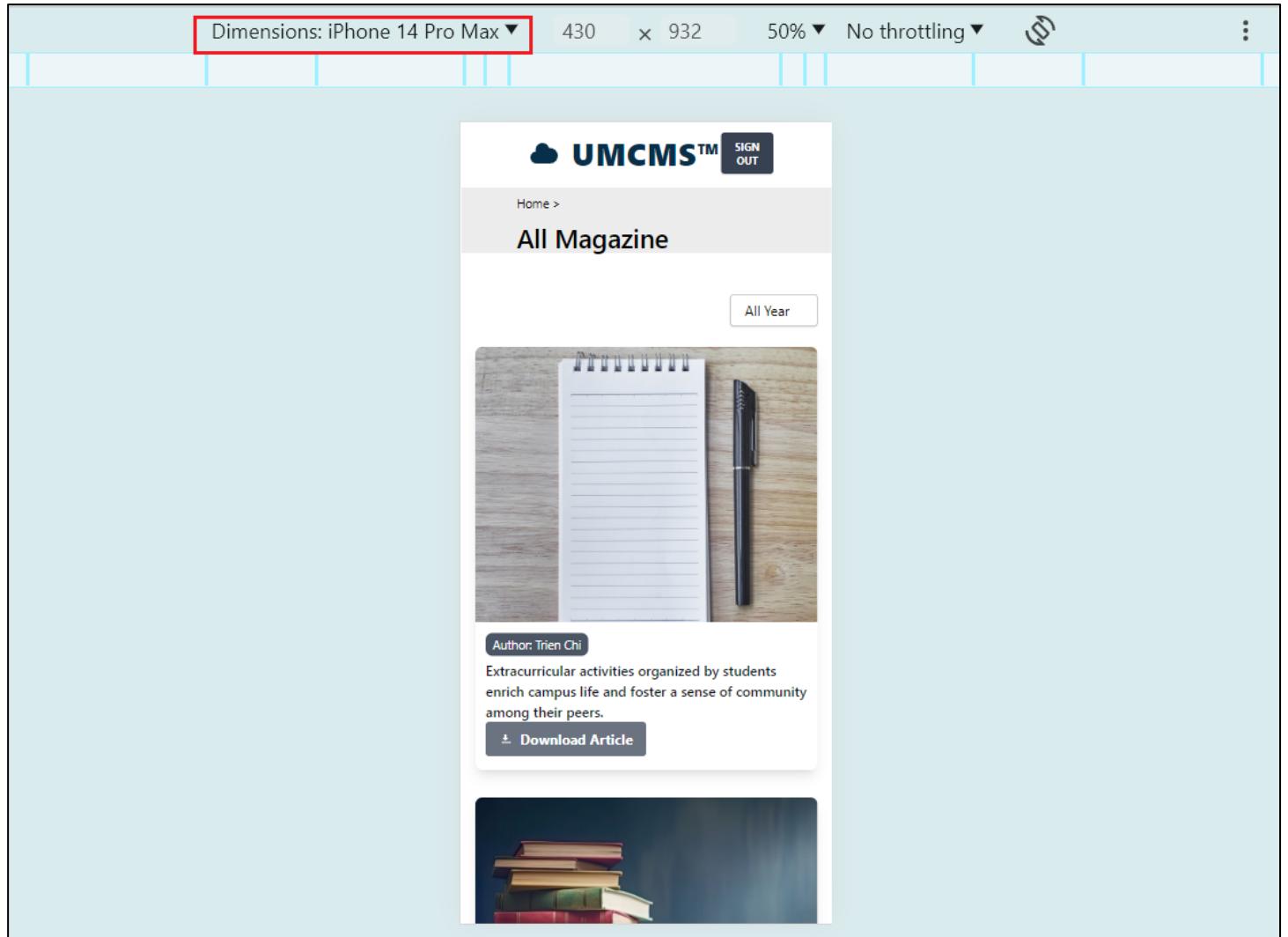


Figure 11: The usability of the project

1.1.3. Accessibility

In our pursuit of accessibility (Brophy & Craven, 2007), we meticulously select colours to balance aesthetic appeal and inclusivity. By analysing colour properties and their impact on emotional responses and readability, we aim to enhance the user experience for individuals with diverse needs. Our curated colour palette, comprising #6B7380, #8B949D, #FFFFFF, and #000000, is deployed thoughtfully across the project to ensure both visual appeal and accessibility:

- **The colour #6B7380:** The chosen colour plays a crucial role in the interface design, especially for buttons representing user actions. Its intentional use enhances user experience by providing clear cues for engaging with various functionalities. This deliberate choice guides user interactions, fosters a seamless experience, and contributes to the overall aesthetic coherence of the interface (*Figure 12*).



Figure 12: The colour #6B7380 is displayed in the project

- **The colour #8B949D:** This colour primarily acts as the background for author names on the home page, ensuring visibility and identification. It also denotes user roles, adding visual distinction. Consistent use enhances visual coherence, conveys important information and improves usability and engagement (*Figure 13*).

Author: Trien Chi Extracurricular activities organized by students enrich campus life and foster a sense of community among their peers.	Author: Trien Chi Students contribute to the learning environment by actively participating in class discussions and sharing their diverse perspectives.	Author: Trien Chi Student research projects expand the knowledge base of the entire academic community and often lead to new insights and discoveries.	Author: Trien Chi Through group projects and collaborative assignments, students demonstrate teamwork skills and contribute to the collective success.
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Figure 13: The colour #8B949D is displayed in the project

- **The colour #FFFFFF:** It serves as the system's universal background colour, providing a subtle backdrop for content. It fosters visual harmony, allowing content to stand out without overwhelming users. This deliberate choice enhances readability, simplifies navigation, and promotes an enjoyable user experience (*Figure 14*).

Welcome To The University Magazine Contribution Management System (UMCMS™)

Submission Management

Students can easily submit articles as Word documents and upload high-quality images directly through the system. Submission is subject to agreeing to predefined Terms and Conditions, ensuring compliance and legal clarity.

Role-Based Access Control

UMCMS™ accommodates various user roles, including students, faculty marketing coordinators, the University Marketing Manager, guests, and administrators. Each role is assigned specific privileges and responsibilities tailored to their respective functions within the magazine contribution process.

Statistical Analysis

UMCMS™ offers robust statistical analysis capabilities, providing insights such as the number of contributions per Faculty, helping stakeholders understand participation levels and trends.

Figure 14: The colour #FFFFFF is displayed in the project

- **The colour #000000:** Using #000000 for text elements is crucial for readability and clarity. This colour choice aligns with typography best practices, providing maximum contrast and reducing eye strain. It enhances the system's credibility and usability, creating a clean and professional aesthetic (*Figure 15*).

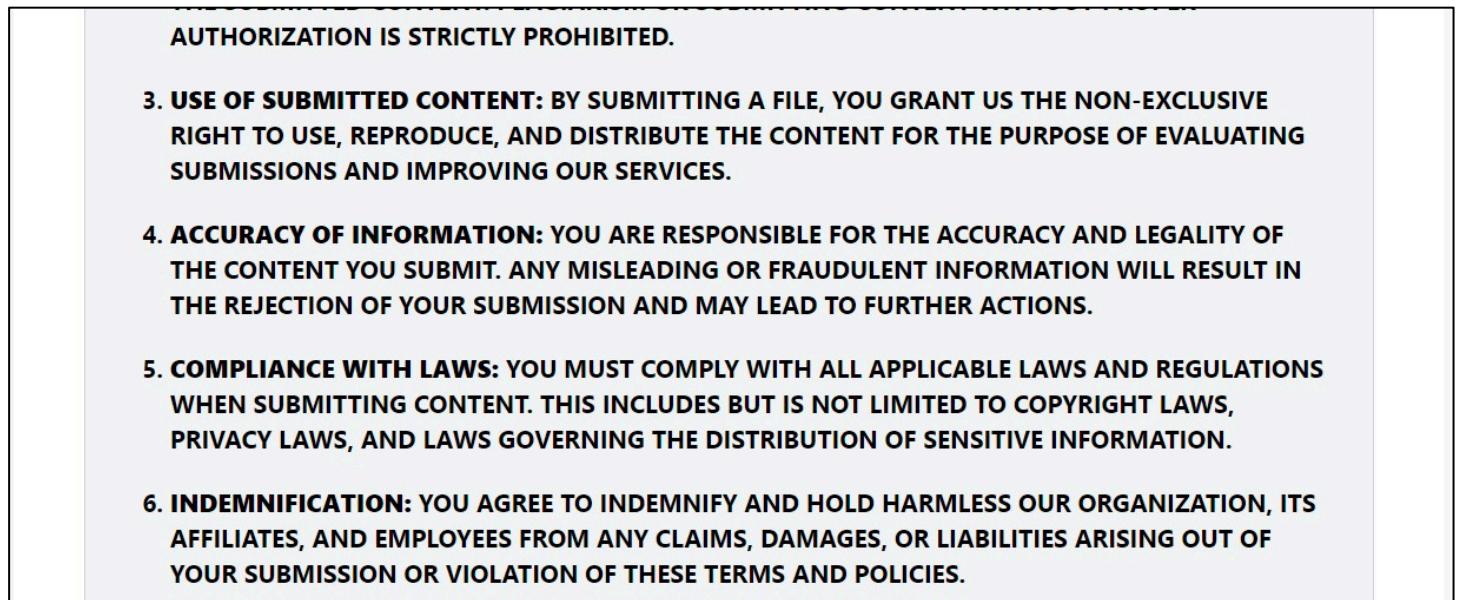


Figure 15: The colour #222831 is displayed in the project

1.1.4. Consistency

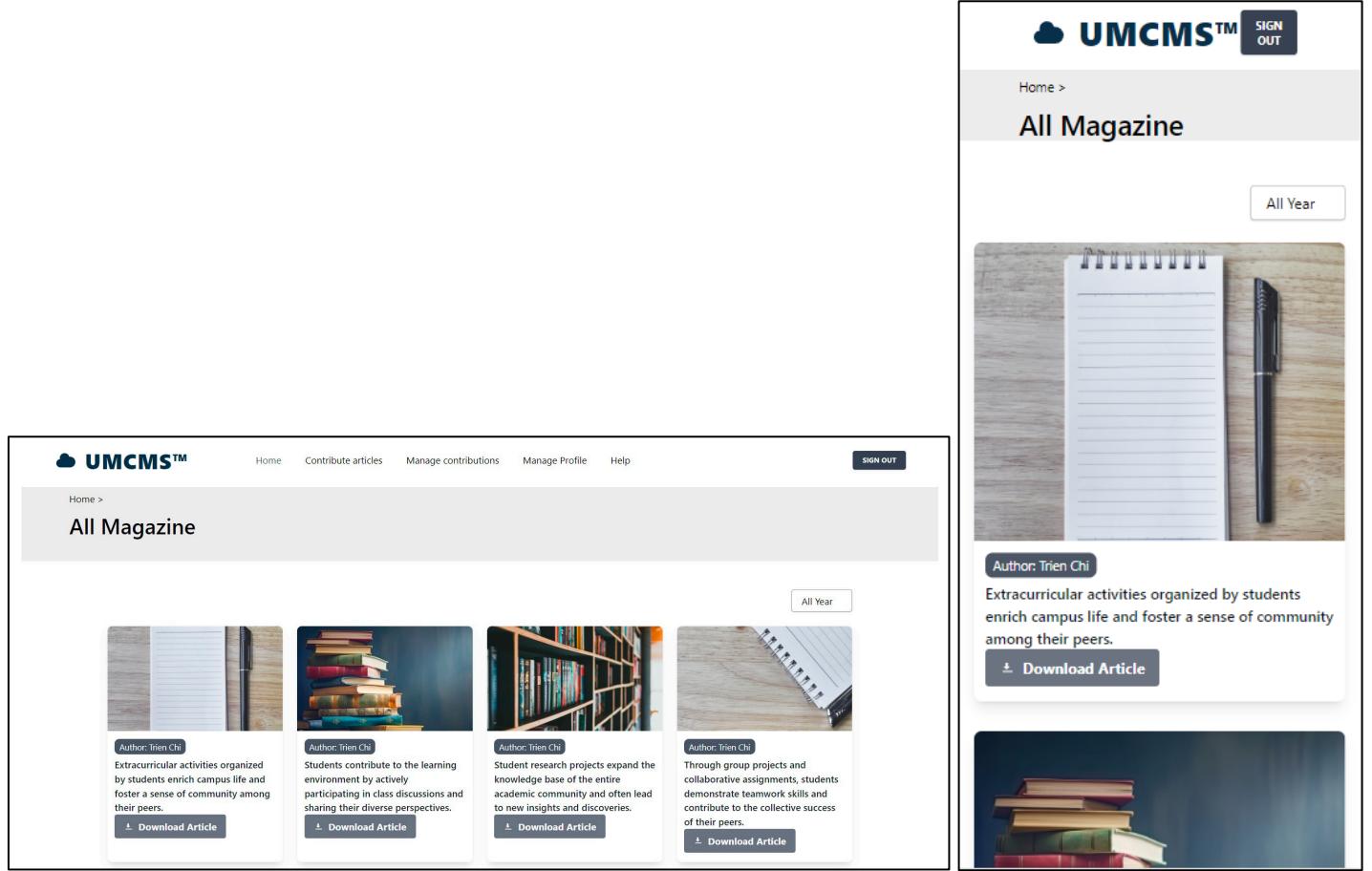
Consistency in design and content is essential for a superior user experience, promoting trust and simplicity, as noted by (Wake, 2016). Tailwind CSS technology in the UMCMS™ system ensures a consistent style, enhancing maintainability and reusability. Consistency is vital in our project:

- **Elements:** Keeping web components like headers and navigation bars consistent ensures a logical and intuitive interface, aiding usability.
- **Design:** Consistent visual elements like typography and colour schemes enhance aesthetic appeal and user interaction.
- **Content:** Maintaining consistency in content presentation fosters user engagement and trust.
- **Interaction:** Consistent website interaction provides predictability and reliability, improving the user experience.

1.1.5. Responsive

Ethan Marcotte's groundbreaking work on responsive design, employing fluid grids, media queries, and flexible images, has paved the way for modern websites to adapt elegantly to various screen sizes and devices (Natda, 2013). Recognising the increasing prevalence of mobile devices as primary platforms for accessing websites, the University Magazine Contribution Management System (UMCMS™) prioritises integrated support for smaller displays. Leveraging the Tailwind CSS framework ensures seamless access to UMCMS™ on mobile devices, even during commutes. With a responsive layout across all pages, UMCMS™ delivers a consistent and optimal user experience regardless of screen size (Geeks for Geeks, 2023).

Tailwind CSS simplifies responsive design implementation by utilising breakpoints, streamlining code writing and optimising development workflows. This framework influenced all visible design components in the UMCMS™ project, ensuring scalability and adaptability. *Figure 16* showcases the UMCMS™ landing page on desktop and mobile devices, illustrating Tailwind CSS's effectiveness in creating a responsive layout and seamlessly reorganising content. This underscores the system's commitment to providing users full access regardless of their chosen device.



a) The landscape view of the project

b) The mobile view of the project

Figure 16: The responsive of the project

1.2. The Positive Aspects of Functionalities in the Project

In this section, we will explore the positive aspects of the functionalities provided by the University Magazine Contribution Management System (UMCMSTTM). The system's design optimises efficiency and collaboration, benefiting users and stakeholders involved in the magazine production process. By focusing on user-centric features and a seamless workflow, UMCMSTM enhances the overall experience and productivity of all participants in the project. Let's delve into the specific functionalities that contribute positively to the success of the UMCMSTM project.

1.2.1. Security

At first, we utilised JWT (JSON Web Token) for secure user account protection. (JWT, 2024) ensures that only authorised users access protected resources using a compact and self-contained authentication method. Upon authentication, users receive a JWT token containing encoded identity and permissions (*see Figure 17*), which are used for subsequent requests to verify identity and control access. This enhances application security, preventing unauthorised access and safeguarding user data integrity and confidentiality.

```
X Headers Payload Preview Response Initiator Timing
1 {
- | "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2Vybmc6ImFkbWluIiwic3ViIjoiM2EwYzdmODctNTUzNS00MTU1LTk1ZmItYjAyODI4YmF1YjE4IiwiawF0IjoxNzExNzAzNzA5LCI"
- }
```

Figure 17: The token of the account is saved when successfully signed in

Then, using the MD5 hashing algorithm, passwords are encrypted and stored securely in the "User" database, as suggested by (Shacklett & Loshin, 2021). This approach adds a layer of protection to user credentials, preventing

unauthorised access even in a security breach. The system ensures secure authentication without storing plaintext passwords by comparing hashed passwords during sign-in attempts. This enhances overall system security by making it difficult for attackers to retrieve user passwords from the database (see Figure 18).

#	user_id	username	password	role_id	faculty_id
1	c81e2c7e-7605-4d00-baca-2559c60...	admin	202cb962ac59075b964b07152d234...	4efca5b7-0775-4d7e-93a4-9f19b8ac...	66c8e3c7-9ff0-4d37-a0d8-6b0938ee...
2	82eca353-202d-46a5-b222-47c7818...	studentMarketing	202cb962ac59075b964b07152d234...	8f63601e-f52c-49e9-a6c0-0ca500d4...	67d2df97-3112-4616-956f-d34682f...
3	0324414a-0ca1-41aa-b6da-d4f9a40...	studentDesign	202cb962ac59075b964b07152d234...	8f63601e-f52c-49e9-a6c0-0ca500d4...	adb14fcf-6e37-45ef-85d3-1903af29...
4	24124c9b-f7d1-4910-b3e3-f0c10eb3...	guestIt	202cb962ac59075b964b07152d234...	a14ee746-1cf1-49ec-a163-3f5941bb...	66c8e3c7-9ff0-4d37-a0d8-6b0938ee...
5	0661c62f-6606-4949-ba9a-eb34fdec...	guestMarketing	202cb962ac59075b964b07152d234...	a14ee746-1cf1-49ec-a163-3f5941bb...	67d2df97-3112-4616-956f-d34682f...
6	a678232a-7436-451e-bf96-f88ac4cd...	guestDesign	202cb962ac59075b964b07152d234...	a14ee746-1cf1-49ec-a163-3f5941bb...	adb14fcf-6e37-45ef-85d3-1903af29...
7	ba15dc17-7e1a-45ef-8b4a-7c42bd72...	coordinatorIT	202cb962ac59075b964b07152d234...	a2737b03-c39d-4e20-b473-1155d33...	66c8e3c7-9ff0-4d37-a0d8-6b0938ee...
8	20373f06-61e3-405c-baf3-3587595...	coordinatorMarketing	202cb962ac59075b964b07152d234...	a2737b03-c39d-4e20-b473-1155d33...	67d2df97-3112-4616-956f-d34682f...
9	c3cd22a7-e1dc-4b53-ac29-3182f0ce...	coordinatorDesign	202cb962ac59075b964b07152d234...	a2737b03-c39d-4e20-b473-1155d33...	adb14fcf-6e37-45ef-85d3-1903af29...
10	f8968335-579a-4b27-82e2-31503ac...	manager	202cb962ac59075b964b07152d234...	783b07c1-6e6f-4956-8e82-cccd31b8...	66c8e3c7-9ff0-4d37-a0d8-6b0938ee...
11	c737a75f-9695-4fd4-90c9-f9aacf6ca...	studentIT	202cb962ac59075b964b07152d234...	8f63601e-f52c-49e9-a6c0-0ca500d4...	66c8e3c7-9ff0-4d37-a0d8-6b0938ee...

Figure 18: The MD5 hashing to create password hashes in the database

1.2.2. Filter contributions

Incorporating a robust filtering mechanism within the UMCMS™ notably amplifies the efficiency of content management and retrieval processes. This functionality allows users to filter and organise academic year submissions effectively. Such capabilities enable users to pinpoint specific articles or submissions expeditiously, bolstering productivity and facilitating streamlined workflow management (refer to Figure 19 for visual representation).

IMAGE	TITLE	DESCRIPTION	STATUS	COMMENT	ACTION	YEAR FILTER
	Article9_ChiTrien	Peer tutoring and mentoring programs allow students to support each other academically, fostering a culture of academic excellence.	Pending	<button>Comment</button>		
	Article6_ChiTrien	Extracurricular activities organized by students enrich campus life and foster a sense of community among their peers.	Approved	<button>Comment</button>		
	Article1_ChiTrien	Extracurricular activities organized by students enrich campus life and foster a sense of community among their peers.	Pending			

Figure 19: Example of the filter function in the project

1.2.3. Chat on the specific contribution

The UMCMS™ integrates a chat functionality to facilitate smooth interaction between students and coordinators. This attribute allows students to solicit real-time feedback, clarification, or assistance from coordinators, thereby nurturing collaboration and augmenting the calibre of submissions. By enabling efficient communication, the chat feature cultivates a collaborative milieu within the system (Figure 20 and Figure 21).

IMAGE	TITLE	DESCRIPTION	STATUS	COMMENT	ACTION	YEAR FILTER
	Article9_ChiTrien	Peer tutoring and mentoring programs allow students to support each other academically, fostering a culture of academic excellence.	Pending			

Figure 20: Example of clicking on the chat icon on a specific contribution

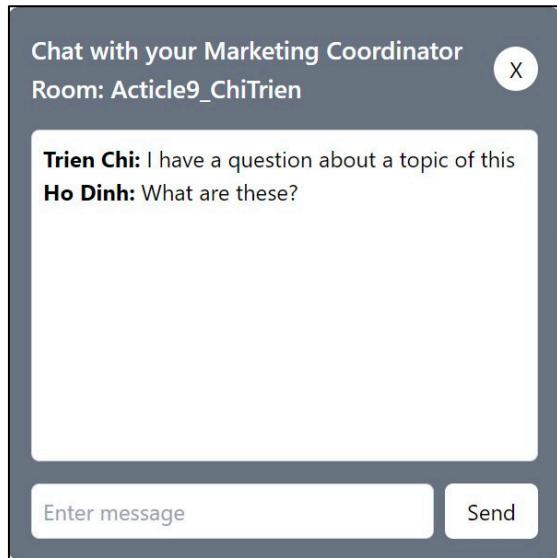


Figure 21: Example of the chat function in the project

1.2.4. Forget password

The University Magazine Contribution Management System (UMCMSTTM) prioritises user convenience and security by incorporating a robust "Forgot Password" feature. This functionality lets users reset their passwords straightforwardly, enhancing account security while ensuring ease of use. Users initiate the password reset by providing their username and email address. The system then generates a unique password change code sent directly to the user's registered email, confirming their identity and authorising the password change request. After receiving the code, users enter it into the system, granting them access to the password reset interface. Here, they can securely input a new password and regain access to their account. This streamlined approach balances security and user experience, allowing users to confidently reset their passwords without compromising data protection or user experience (*from Figure 22 to Figure 25*).

Figure 22: The user inputs the username and email of the account to change the password



Figure 23: The user receives the code to change the password

The screenshot shows a 'Forgot Password™' page. At the top, there is a cloud icon and the text 'Forgot Password™'. Below it, a message says 'Regenerate Code - 6 Characters Code'. A text input field contains the code 'iBROXn'. Below the input field is a dark blue button labeled 'Verify Code'. At the bottom of the page are two buttons: 'Sign Up' and 'Sign In'.

Figure 24: The user inputs the code to change the password

The screenshot shows a 'Forgot Password™' page. It has two text input fields: 'Password' and 'Confirm Password', both containing placeholder text '*****'. Below these fields is a dark blue button labeled 'Change Password'. At the bottom of the page are two buttons: 'Sign Up' and 'Sign In'.

Figure 25: The user inputs the new password

1.2.5. Publish contributions

The University Magazine Contribution Management System (UMCMSTTM) has added a key feature allowing marketing managers to curate and publish approved contributions from coordinators. This empowers managers to select high-quality content for external publication, creating a repository of valuable materials for all users. By highlighting the university's achievements and scholarly work, this enhancement enriches the user experience and extends the reach of notable content. This strategic addition strengthens the system's impact by showcasing top-tier contributions to a broader audience (*Figure 26 to Figure 27*).

The screenshot shows a table with columns: IMAGE, TITLE, AUTHOR, DESCRIPTION, STATUS, COMMENT, ACTIONS, and CHAT. There are two rows of data. The first row has an image of a bookshelf, title 'Article3_ChiTrien', author 'Trien Chi', description 'The research paper on the impact of using artificial intelligence in cancer detection and treatment.', and a status dropdown menu open with options: 'Select Status', 'Pending', 'Approved', and 'Denied'. The second row has an image of a document, title 'Tien', author 'Tien', description 'The research paper addresses the importance of applying information', and a status dropdown menu closed. Buttons for 'Comment', 'Save', and 'Cancel' are visible at the bottom of the dropdown menu. The 'Actions' column contains a pencil icon and a delete icon. The 'CHAT' column contains a speech bubble icon.

Figure 26: Example of the publishing contributions function in the project



Figure 27: Example of the published contribution on the homepage function in the project

1.3. Further Development

The University Magazine Contribution Management System (UMCMSTTM) is a pivotal platform for facilitating student contributions to the university magazine. As we strive for continual improvement, several critical areas of development have been identified to enhance the system's functionality and user experience. This part explores the potential benefits and considerations of implementing plagiarism detection algorithms, recommending published contributions based on user interactions, enabling password change functionality for users, and allowing students to upload multiple images within their contributions.

The integration of plagiarism detection algorithms within UMCMSTM offers multifaceted advantages. By leveraging such algorithms, the system can effectively identify and flag instances of plagiarism within student submissions. This proactive approach upholds academic integrity and fosters a culture of originality and scholarly rigour. Additionally, plagiarism detection enhances the credibility of published content, ensuring that the university magazine maintains high standards of authenticity and quality.

The recommendation system is crucial in enriching user engagement and facilitating content discovery within UMCMSTM. By analysing user interactions, such as reading history, preferences, and feedback, the system can intelligently recommend relevant and high-quality contributions to individual users. This personalised approach enhances the user experience by curating tailored content and increases user satisfaction and retention.

Enabling students to upload multiple images within their contributions expands the creative possibilities and enriches the visual appeal of content within UMCMSTM. Whether accompanying articles, essays, or creative works, images enhance storytelling and engagement by providing visual context and improving readability. Moreover, multi-image upload functionality encourages diverse forms of expression and accommodates various types of content, fostering inclusivity and creativity among student contributors.

Incorporating advanced features such as plagiarism detection algorithms, recommendation systems, user-controlled password change, and multi-image upload functionality represents a significant step forward in the evolution of the University Magazine Contribution Management System (UMCMSTTM). By prioritising these areas of development, UMCMSTM can further enhance functionality, user experience, and overall effectiveness as a platform for student contributions.

2. Evaluation Of The Process

Developing complex software projects demands a structured approach that fosters efficiency, collaboration, and adaptability. In the University Magazine Contribution Management System (UMCMSTTM) project, adopting Scrum methodology provided a framework for agile development, enabling a team of four members to navigate through six sprints effectively. This part explores the application of Scrum principles and practices within the context of the UMCMSTTM project, highlighting its impact on project outcomes and team dynamics.

Scrum is an agile project management framework that enables teams to structure and manage their work using a set of values, principles, and practices. Scrum, like a rugby squad (from which it derives its name), encourages teams to learn via experience, self-organise while working on a problem, and reflect on their victories and defeats to improve continually (Drumond, 2024).

In the UMCMSTTM project, Scrum methodology was embraced to drive efficiency and collaboration among the team members. With a team size of four members, each assigned roles based on our strengths and expertise, the project commenced with meticulous sprint planning. The product backlog was curated to identify all functionalities required for the UMCMSTTM platform, serving as a roadmap for development. The team focused on delivering incremental enhancements to the UMCMSTTM platform for six sprints. Each sprint began with a sprint planning session, during which the team selected user stories from the product backlog and committed to delivering them within the sprint duration. Stand-up meetings allowed team members to synchronise our efforts, discuss progress, and identify impediments.

Continuous feedback from stakeholders, including client representatives, was crucial in shaping the project's direction. Sprint reviews allowed stakeholders to evaluate the delivered increments and provide feedback, while sprint retrospectives enabled the team to reflect on our processes and identify areas for improvement. Adopting the Scrum methodology significantly influenced the outcomes of the UMCMSTTM project. The team maintained focus and momentum throughout the project lifecycle by breaking the development process into manageable iterations. Continuous collaboration and communication fostered a sense of ownership and accountability among team members, driving productivity and innovation. Furthermore, the iterative nature of Scrum allowed for flexibility and adaptability in response to changing requirements or priorities as the project progressed through multiple sprints; the UMCMSTTM platform evolved organically, each increment building upon the previous ones to deliver a robust and feature-rich solution.

In conclusion, implementing the Scrum methodology proved instrumental in successfully developing the University Magazine Contribution Management System (UMCMSTTM) project. By leveraging agile principles and practices, the team of four members navigated through six sprints with efficiency, collaboration, and adaptability. The iterative nature of Scrum facilitated continuous improvement and innovation, ultimately resulting in the delivery of a high-quality and user-centric solution.

3. Evaluation Of The Team

This section assesses the performance and composition of the team responsible for the University Magazine Contribution Management System (UMCMSTM) project. The evaluation focuses on the team's efficiency, collaboration, and ability to meet project goals. The Team Evaluation section examines the team's productivity, communication, and adherence to best practices during development. Following this, the Team Justification section provides a rationale for the team's structure and roles, emphasising the strengths and contributions of individual members and their impact on the project's success. This comprehensive analysis offers insights into the team's overall effectiveness and areas for potential improvement.

3.1. Team Evaluation

I have comprehensively evaluated the project team after dedicating substantial time and effort to developing and implementing the University Magazine Contribution Management System (UMCMSTM). This assessment focuses on multiple performance criteria to gauge the effectiveness and contributions of each team member. These criteria include Attendance, Punctuality, Proactiveness, Communication, Cooperation, Concentration, and Dedication.

Attendance and Punctuality measure the reliability and consistency of team members in their involvement with the project, ensuring tasks and responsibilities are managed efficiently. Proactiveness examines each member's initiative and willingness to take on challenges and new responsibilities. Communication and Cooperation assess how effectively team members interact with each other and work collaboratively. These qualities are essential for fostering a cohesive team dynamic and ensuring smooth project progress. Concentration evaluates each member's focus and ability to work diligently on their tasks, while Dedication measures the level of commitment and passion brought to the project.

Table 1 below presents a detailed breakdown of individual scores across these criteria, providing a comprehensive summary of each team member's performance. This thorough assessment allows for an in-depth analysis of strengths and areas for improvement. *Table 2* displays the average score attained by each team member, offering a comparative overview of individual performances across the criteria mentioned above. This perspective provides insight into each member's overall contribution and effectiveness within the team. Additionally, *Figure 28* showcases a chart representing each member's overall team contribution. This visual representation highlights the varying levels of input and performance, allowing for a clearer understanding of the team's dynamics and the distribution of effort among members.

Through this meticulous evaluation, we can identify exceptional contributors and areas where additional support or development may be needed, ultimately helping to guide future projects towards even greater success.

Table 1: The weight of the team evaluation for each member

FACTOR	WEIGHT	Minh-Nghia Nguyen	Chi-Trien Nguyen	The-Tien Tran	Nhat-Tan Huynh
Attendance	10	8	8	9	8
Timekeeping	10	10	9	8	9
Initiative	10	10	10	10	10
Communication	10	9	8	8	8
Collaboration	10	8	10	10	9
Focus	10	9	10	8	9
Commitment	10	9	9	9	9
TOTAL	70	9,0	9,1	8,9	8,9

Table 2: The average score attained by each team member

PERSON	TOTAL
Minh-Nghia Nguyen	9,0
Chi-Trien Nguyen	9,1
The-Tien Tran	8,9
Nhat-Tan Huynh	8,9

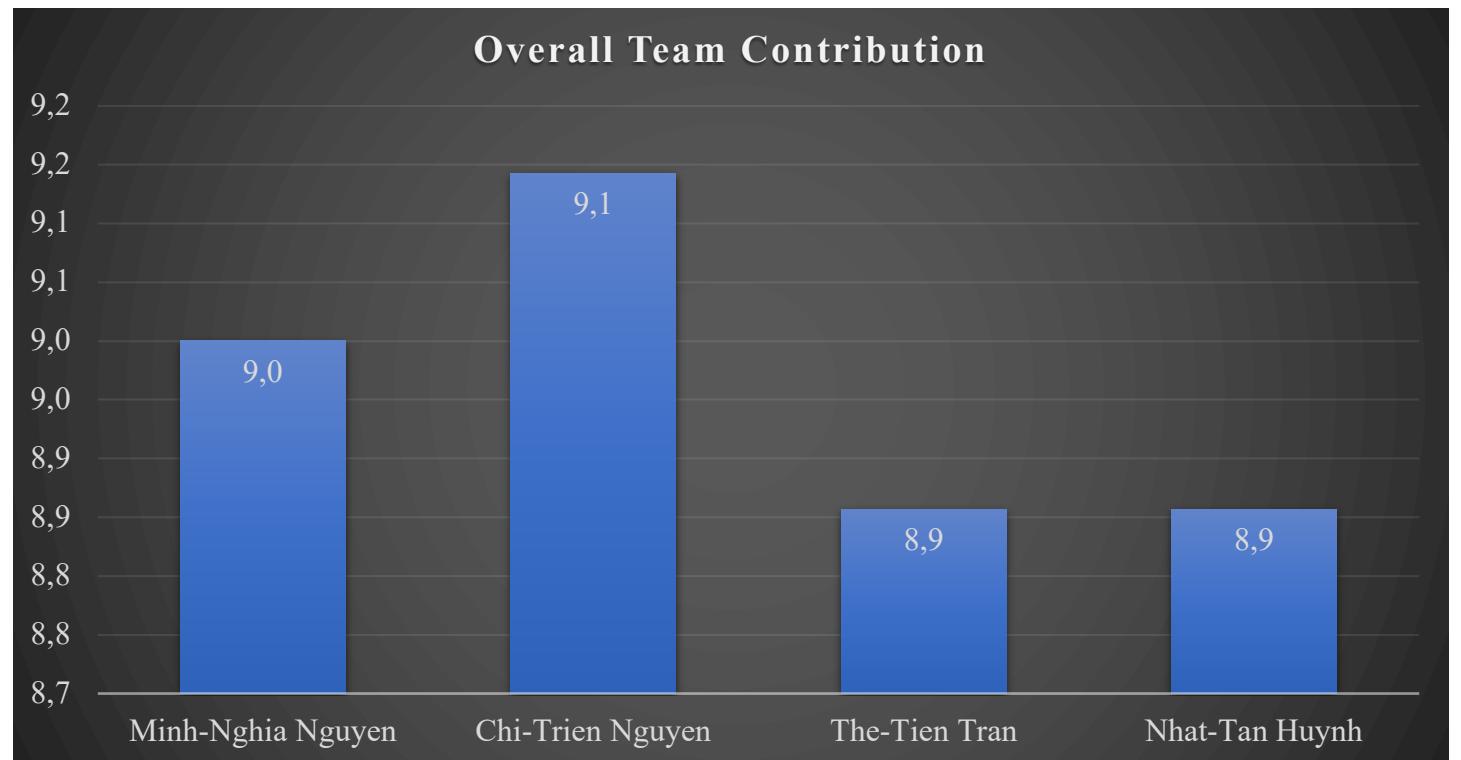


Figure 28: The chart of the overall team contribution of each member

Figure 29 below illustrates the comparison among members based on individual factors outlined in the evaluation table:

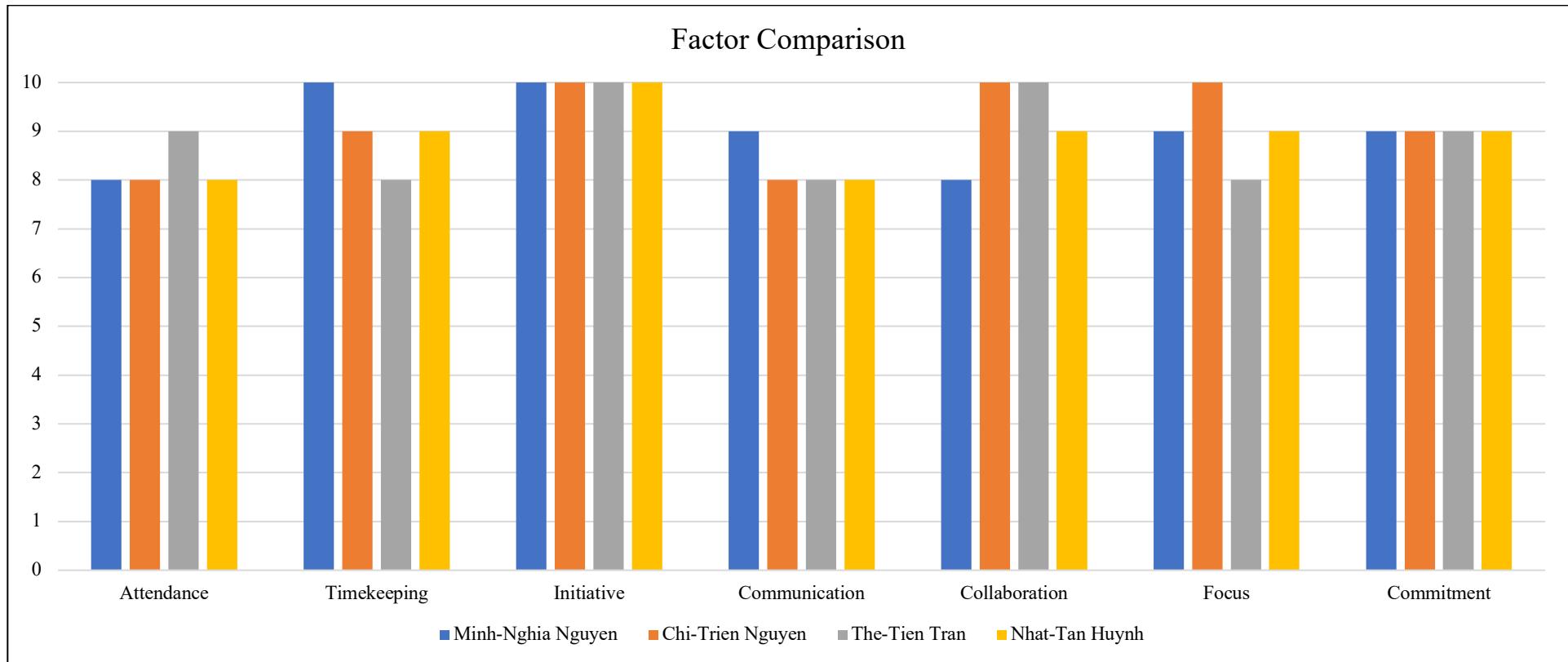


Figure 29: The chart of the overall team contribution of each member

3.2. Team Justification

Table 3 below assesses each member based on their component scores, highlighting areas for improvement in future tasks while acknowledging and encouraging the maintenance of positive attributes.

Table 3: The justification of each team member

Name	Factor	Average Rating	Comments
Minh-Nghia Nguyen (Author)	Attendance: 8 Timekeeping: 10 Initiative: 10	9,0	As the Product Owner, my leadership has been pivotal in steering the project towards its successful culmination by prioritising meticulous timekeeping and proactive initiative. Throughout the project lifecycle, I have diligently ensured the transparent communication of customer requirements, meticulously aligning them with our project objectives to guarantee utmost client satisfaction. Furthermore, I have actively

	Communication: 9 Collaboration: 8 Focus: 9 Commitment: 9		monitored the team's progress, consistently offered timely contributions, and maintained an unwavering commitment to project success. Looking ahead, I am committed to further strengthening my connections with team members and fostering a collaborative environment where everyone feels supported and empowered to excel. By being readily available to offer guidance and support, I aim to elevate our project outcomes and achieve even greater success in future endeavours.
Chi-Trien Nguyen	Attendance: 8 Timekeeping: 9 Initiative: 10 Communication: 8 Collaboration: 10 Focus: 10 Commitment: 9	9,1	Trien has exhibited remarkable technical prowess, spearheading the project's swift implementation. He has efficiently executed his tasks and extended support to fellow team members, leveraging his knowledge and skills to ensure the project's thorough completion. With unwavering focus and innovative thinking, Trien has collaborated seamlessly with team members, enabling the project to surpass milestones ahead of schedule. His steadfast commitment to the team's success has been evident throughout, as he consistently trusted and supported all team members. Moving forward, Trien recognises the areas for improvement, particularly in enhancing attendance and communication skills. He aims to refine his performance further and excel in future endeavours by addressing these areas.
The-Tien Tran	Attendance: 9 Timekeeping: 8 Initiative: 10 Communication: 8 Collaboration: 10 Focus: 8 Commitment: 9	8,9	As the principal designer of the team, Tien has demonstrated a flair for innovative design thinking, resulting in an interface that is both intuitive and user-friendly. Additionally, he has served as a vital link, fostering cohesion among team members throughout the project implementation process. Tien's unwavering commitment and consistent presence have significantly contributed to the project's success. While he performed admirably during the project implementation phase, there are areas for improvement, particularly in timekeeping, communication, and focus, which he acknowledges and aims to address for future collaborative efforts.
Nhat-Tan Huynh	Attendance: 8 Timekeeping: 9 Initiative: 10 Communication: 8 Collaboration: 9 Focus: 9 Commitment: 9	8,9	Tan assumed the roles of programmer and primary tester within the group, demonstrating exceptional dedication and competence in fulfilling his responsibilities. His commendable performance in timekeeping, collaboration, focus, and commitment significantly contributed to the successful completion of the project. Tan's proactive approach and innovative ideas facilitated the swift and flawless execution of tasks. While excelling in many areas, he acknowledges the need for improvement in attendance and communication to enhance his effectiveness in future teamwork. Tan aims to continue his growth and contribute more in future collaborative endeavours by focusing on these areas.

4. Self-Evaluation

Throughout my involvement in the University Magazine Contribution Management System (UMCMS™) project, I have engaged in a thorough process of self-reflection, evaluating my strengths and areas for growth. This introspection has guided my personal and professional development, helping me navigate the complexities of project management with clarity and focus.

A key strength I demonstrated during the UMCMS™ project was my unwavering commitment to meticulous timekeeping and proactive initiative. As the Product Owner and Scrum Master, I prioritised adherence to deadlines and took proactive measures to drive the project forward. This ensured smooth and efficient progress, contributing significantly to the project's success. Additionally, my forward-thinking approach allowed me to anticipate and address challenges proactively, fostering a culture of continuous improvement within the team.

However, one area where improvement is needed is time management during the initial sprint. All team members, including myself, faced challenges in effectively managing our time during Sprint 1. This led to increased pressure and a heavy workload, forcing the team to work hard to meet deadlines. As the Scrum Master, I recognise the need for more structured planning and better pacing to avoid overburdening the team and achieve a smoother workflow in future sprints.

As Scrum Master, I facilitated team communication and collaboration, keeping the team focused on the sprint goals. I worked closely with team members to remove obstacles and provide support where needed, enabling them to work effectively and efficiently. By maintaining clear communication channels and fostering open dialogue, I facilitated an environment that encouraged exchanging ideas and integrating feedback into our plans.

One key lesson from this experience is the importance of flexibility and adaptability in project management. While planning is crucial, unforeseen challenges may arise, necessitating quick adjustments. I will apply this lesson by being more open to changes in future projects, enabling the team to pivot strategies when needed. Another lesson learned is the value of fostering a supportive team culture. By encouraging collaboration and open communication, I aim to cultivate a sense of camaraderie and trust within the team. This will allow us to work together more effectively, overcome challenges, and achieve tremendous success in future projects. I also recognise the need to refine my time management skills to optimise productivity and effectively meet deadlines. By prioritising tasks, setting realistic goals, and utilising time-tracking tools, I can enhance my overall efficiency and contribute more effectively to our team's success.

In conclusion, my self-evaluation of my participation in the UMCMS™ project has been a journey of introspection, growth, and learning. By leveraging my strengths in timekeeping, initiative, and communication and addressing areas for improvement in collaboration and time management, I am committed to continuous improvement and personal development. Through reflection and proactive action, I am confident that I can make meaningful contributions to our team's success and further refine my leadership and team member skills. As a Scrum Master, I aim to foster an environment that encourages growth, collaboration, and excellence.

Conclusion

In retrospect, the development journey of the University Magazine Contribution Management System (UMCMSTTM) project under the Scrum methodology has been profoundly enriching, offering invaluable insights into both personal growth and system development. Adopting Scrum principles has honed my skills in agile project management, emphasising iterative development, collaboration, and adaptability. My ability to navigate changing requirements and deliver incremental value has emerged as a notable strength, driving the project's success.

Effective communication, teamwork, and time management are essential to achieving project objectives. While I have demonstrated proficiency in agile development practices, there are areas where improvement is warranted. Managing scope creep and effectively prioritising requirements within the iterative framework have presented challenges. Additionally, enhancing skills in stakeholder engagement and requirements elicitation is imperative to ensure alignment with user expectations.

Implementing the Scrum methodology has empowered the UMCMSTTM project to deliver incremental value to users. The iterative approach has facilitated rapid prototyping, feedback gathering, and continuous improvement, resulting in a responsive and adaptable system. Collaboration and user involvement have fostered a sense of ownership among stakeholders, driving project success.

Nevertheless, the UMCMSTTM project has faced scalability, performance optimisation, and security challenges. While iterative development has expedited feature delivery, it has led to technical debt accumulation and architectural complexities. Enhancements in security measures are essential to mitigate vulnerabilities and ensure data protection.

The development journey of the UMCMSTTM project has provided invaluable lessons for future endeavours. Key takeaways include the significance of stakeholder engagement, iterative development, and prioritising non-functional requirements from the outset. Moving forward, the UMCMSTTM project will evolve and improve, focusing on enhancing scalability, performance, and security. By embracing agile principles, the project will remain adaptable, responsive, and aligned with evolving user needs.

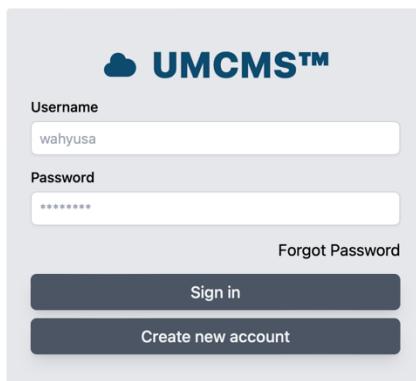
As for self-evaluation, while I have contributed significantly to the project's success, there is room for improvement. My strengths lie in adaptability, communication, and time management, but I recognise the need to further refine my skills in managing scope and engaging stakeholders effectively. By actively seeking opportunities for growth and learning from past experiences, I am committed to enhancing my contributions to future projects and continuing my professional development journey.

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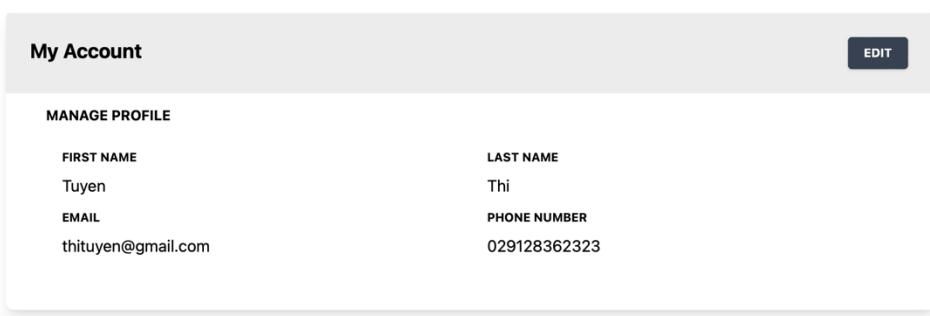
Appendix – Some Pages Of The Project

Some pages of the project are shown in the figures (*from Figure 30 to Figure 42*) below:



The sign-in page for UMCMS™ features a logo with a blue cloud icon and the text "UMCMS™". It includes fields for "Username" (containing "wahyusa") and "Password" (containing "*****"). Below these are links for "Forgot Password", "Sign in" (in a dark button), and "Create new account" (in a dark button).

Figure 30: The Sign-in page



The manage profile page for UMCMS™ shows a header with the UMCMS™ logo, navigation links for "Home", "Statistical Analysis", "Profile", and "Help", and a "SIGN OUT" button. A breadcrumb trail "Profile information > Your profile information" is displayed. The main content area is titled "My Account" and contains a "MANAGE PROFILE" section. It lists "FIRST NAME" (Tuyen), "LAST NAME" (Thi), "EMAIL" (thituyen@gmail.com), and "PHONE NUMBER" (029128362323). An "EDIT" button is located in the top right corner of this section.

Figure 31: The Manage Profile page

UMCMS™

Home Contribute articles Manage contributions Manage Profile Help SIGN OUT

Welcome To The University Magazine Contribution Management System (UMCMS™)

Submission Management

Students can easily submit articles as Word documents and upload high-quality images directly through the system. Submission is subject to agreeing to predefined Terms and Conditions, ensuring compliance and legal clarity.

Role-Based Access Control

UMCMS™ accommodates various user roles, including students, faculty marketing coordinators, the University Marketing Manager, guests, and administrators. Each role is assigned specific privileges and responsibilities tailored to their respective functions within the magazine contribution process.

Statistical Analysis

UMCMS™ offers robust statistical analysis capabilities, providing insights such as the number of contributions per Faculty, helping stakeholders understand participation levels and trends.

Figure 32: The Help page

UMCMS™

Home Contribute articles Manage contributions Manage Profile Help SIGN OUT

Home >

All Magazine

Author: Trien Chi

Extracurricular activities organized by students enrich campus life and foster a sense of community among their peers.

[Download Article](#)

Author: Trien Chi

Students contribute to the learning environment by actively participating in class discussions and sharing their diverse perspectives.

[Download Article](#)

Author: Trien Chi

Student research projects expand the knowledge base of the entire academic community and often lead to new insights and discoveries.

[Download Article](#)

Author: Trien Chi

Through group projects and collaborative assignments, students demonstrate teamwork skills and contribute to the collective success of their peers.

[Download Article](#)

Figure 33: The Homepage page of the student's role

Contribute Articles >

Contribute Your Article

My Contribution

[SENT FILE](#)
[CLEAN FORM](#)
TITLE:

DESCRIPTION

UPLOAD IMAGE FILE
DROP IMAGE FILE HERE

OR

[BROWSE](#)
UPLOAD WORD FILE
DROP WORD FILE HERE

OR

[BROWSE](#)
SELECTED IMAGE FILE:
SELECTED WORD FILE:
[CLOSE TERM AND POLICES](#)
1. ACCEPTED FILE TYPES: WE ONLY ACCEPT WORD FILES (.DOCX) AND PNG IMAGES (.PNG) FOR SUBMISSION.

Figure 34: The Contribute articles page of the student's role

Manage Contribution >

Your Contributions

[All Year](#)

IMAGE	TITLE	DESCRIPTION	STATUS	COMMENT	ACTION	CHAT
	Article2_MinhNghia	The research paper on the role of renewable energy in reducing greenhouse gases and climate change.	Denied	Comment	 	
	Article3_MinhNghia	The research paper explores the challenges and opportunities of using blockchain technology in the financial industry.	Published	Comment	 	
	Article4_MinhNghia	The research paper explores the challenges and opportunities of using blockchain technology in the financial industry.	Published	Comment	 	
	Article1_MinhNghia	The research paper on the role of renewable energy in reducing greenhouse gases and climate change.	Published	Comment	 	

Figure 35: The Manage contributions page of the student's role

Manage Contribution >

Manage Contribution / Comment

[All Year](#)

IMAGE	TITLE	AUTHOR	DESCRIPTION	STATUS	COMMENT	ACTIONS	CHAT
	Article6_TheTien	Tien The	The research paper explores the challenges and prospects of applying artificial intelligence in education and training.	Approved	 Comment 		
	Article1_TheTien	Tien The	The research paper addresses the importance of applying information technology in managing and protecting natural resources.	Approved	 Comment 		
	Article12_TheTien	Tien The	The research paper explores the challenges and opportunities of using blockchain technology in the financial industry.	Approved	 Comment 		
	Article2_ChiTrien	Trien Chi	The research paper on the impact of using artificial intelligence in cancer detection and treatment.	Approved	 Comment 		

Figure 36: The Manage Contribution page of the marketing coordinator's role

Manage Contribution >

Manage Contribution / Publish Magazine

[All Faculty](#)
[All Year](#)
[Search](#)
[Download All Files](#)

IMAGE	TITLE	AUTHOR	DESCRIPTION	STATUS	ACTIONS
	Article4_ChiTrien	Trien Chi	The research paper on the role of renewable energy in reducing greenhouse gases and climate change.	Published	 
	Article9_ChiTrien	Trien Chi	The research delves into analyzing digital marketing strategies and their applications in modern businesses.	Published	 
	Article6_TheTien	Tien The	The research paper explores the challenges and prospects of applying artificial intelligence in education and training.	Approved	 
	Tien	The	The research paper addresses the importance of applying information	In Progress	 

Figure 37: The Manage Contribution page of the marketing manager's role

Manage Closure Date >

Manage Closure Date / Final Closure Date

[Create New Academic Year](#)

ACADEMIC YEAR	CLOSURE DATE	FINAL CLOSURE DATE	ACTION
2023	Friday 2024-04-12 1:11:58 AM	Friday 2024-04-12 1:11:58 AM	
2022	Friday 2024-03-01 1:11:00 AM	Saturday 2024-03-23 1:11:00 AM	
2024	Monday 2024-03-11 1:11:00 AM	Tuesday 2024-04-30 1:11:00 AM	

Figure 38: The Manage Closure Date page of the administrator's role

Manage Account >

Manage User Account Information

[Refresh](#) [Create New Account](#)

Username	Password	Email	Faculty	Role	Actions
admin	*****	admin@gmail.com	IT	Administrator	
thetien	*****	thetien@gmail.com	IT	Student	
nhattan	*****	nhattan@gmail.com	Marketing	Student	
quocbao	*****	tancv23@gmail.com	Marketing	Marketing Coordinator	
manager	*****	manager@gmail.com	IT	Marketing Manager	
hungdung	*****	tancv23@gmai.com	Design	Marketing Coordinator	
quoctuan	*****	quoctuan@gmail.com	Marketing	Student	
minhngchia	*****	minhngchia2466@gmail.com	Design	Student	
tranhuynh	*****	tranhuyhn@gmail.com	Design	Student	
thituyen	*****	thituyen@gmail.com	Design	Guest	

Figure 39: The Manage Accounts page of the administrator's role

Manage Faculty >

Manage Faculty Information

[Refresh !\[\]\(8f3ec3126694d835f2e1584652e390da_img.jpg\)](#)[Create New Faculty](#)

Faculty Name	Actions
IT	 
Marketing	 
Design	 

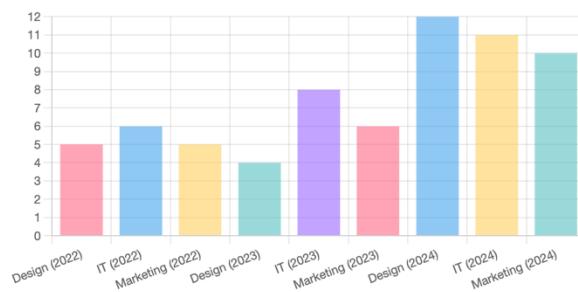
Figure 40: The Manage Faculty page of the administrator's role

Statistical Analysis >

Statistic Chart

[All Year](#)

Statistic Based On Number Of Contributions Within Faculty



Statistic Based On Percentage Of Contributions Within Faculty

 Design (2022)
 IT (2022)
 Marketing (2022)
 Design (2023)

Statistic Based On Number Of Contributors Within Faculty

 Design (2022)
 IT (2022)
 Marketing (2022)
 Design (2023)

Figure 41: The Statistical Analysis page of the administrator's role

Statistical Analysis >

Statistic Chart

All Year

Statistic Based On Number Of Contributions Within Faculty In Year 2024*Figure 42: The Statistical Analysis page of the guest's role*