

Individual Report

COMP1640 - Enterprise Web Software Development

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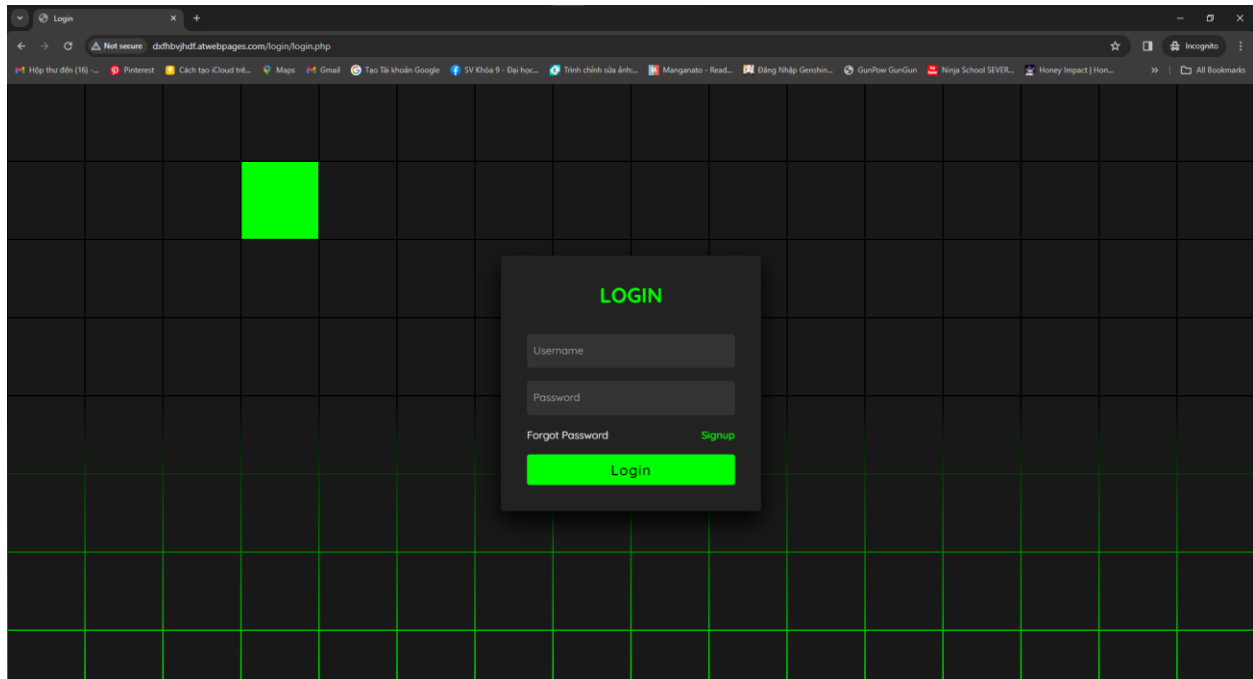
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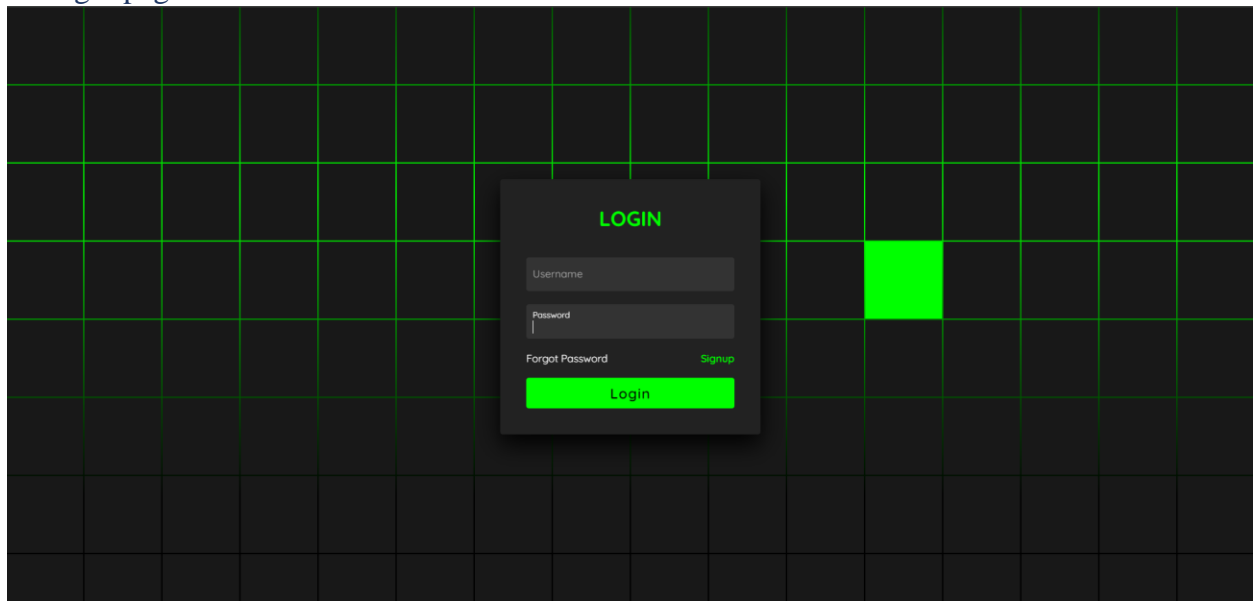
I. Evaluation of product and process

I.1. Evaluation of Product

Website: dxhbjhdf.atwebpages.com

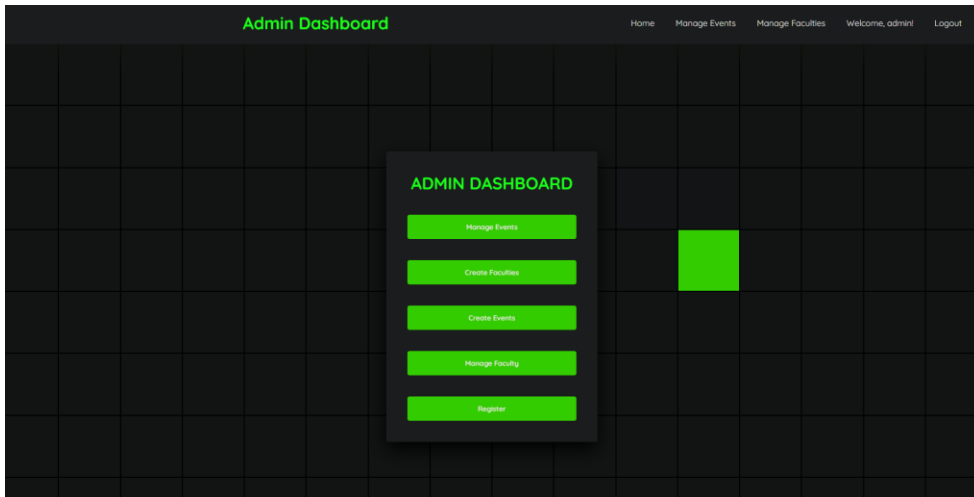


1. Login page

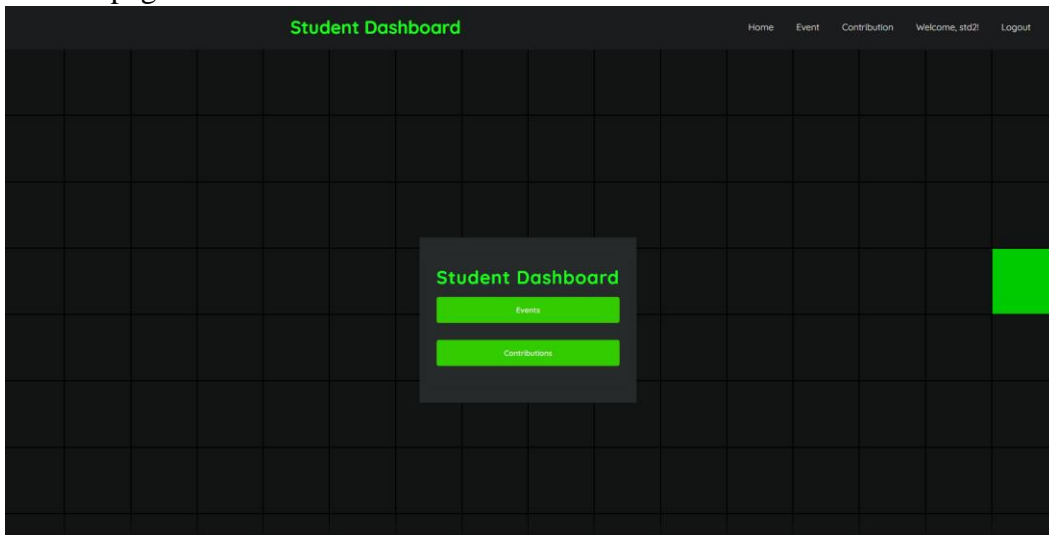


On this login page, the user will enter their account and password. If the user belongs to any role, they will be redirected to the page corresponding to their role.

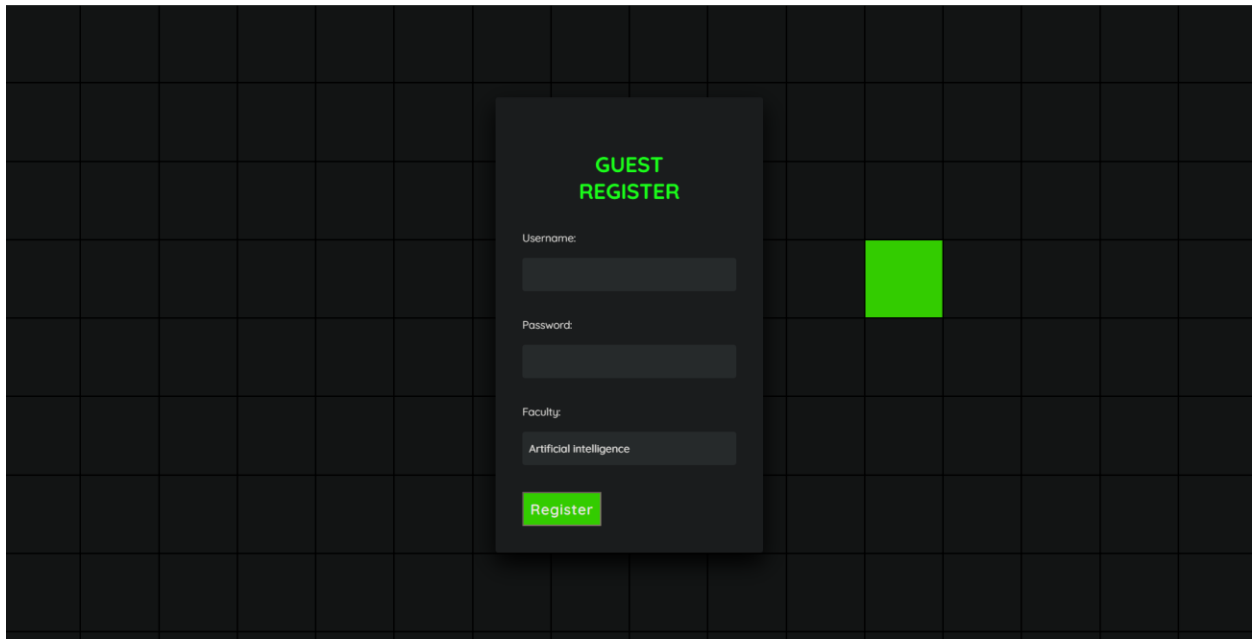
- Admin page:



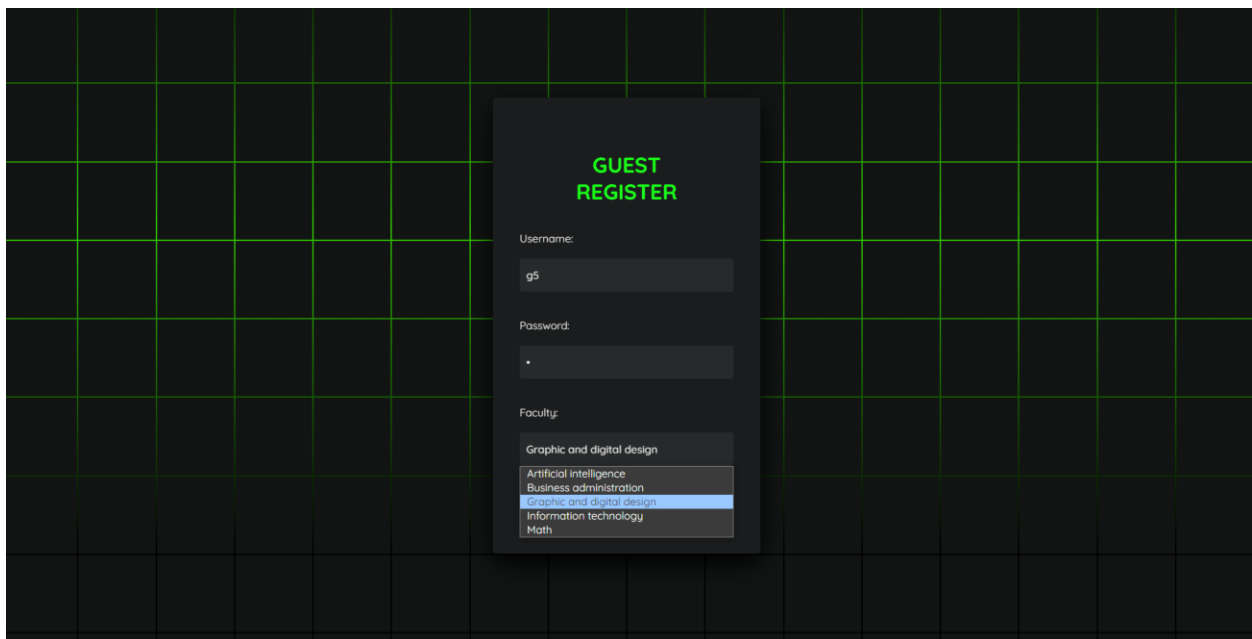
- Student page:



If the user is a guest and does not have an account, they can register for a new account



Guests can enter their account and password and select available faculties



2. Admin page

When the user is an admin, the admin's management page will appear like the image when the admin logs in above.

Admin can create new faculties and new events for faculties.

- Create new faculty

A dark-themed modal form titled "CREATE NEW FACULTY" in red. It features a text input field for "Faculty name:" containing the text "Electronic mechanics". Below the input field is a large red button labeled "Create". The background is a dark grid pattern.

- Create new event

A dark-themed modal form titled "CREATE NEW EVENT" in red. It contains several input fields: "Event name:" with the text "Event for the mechanical and electrical i", "Start date:" with "09/04/2024", and "End date:" with "30/04/2024". Each date field has a calendar icon. Below these is a "Faculty:" dropdown menu. The dropdown is open, showing a list of faculties: "Artificial intelligence", "Business administration", "Electronic mechanics" (highlighted in blue), "Graphic and digital design", "Information technology", and "Math". The background is a dark grid pattern.

Admin can go to the management page to view available events and courses. Admin can edit or delete them

- Manage events

MANAGE EVENTS	ID	EVENT NAME	START DATE	END DATE	FACULTY	ACTION
	9	Các thăm học thiên nhiên tác động thế nào đến với cuộc sống	2024-04-05	2024-04-23	Business administration	View Delete Update
	10	Làm sao giải quyết tình trạng thiếu giáo viên toán?	2024-04-01	2024-04-26	Math	View Delete Update
	12	All	2024-04-06	2024-04-25	Artificial intelligence	View Delete Update
	15	Event for the mechanical and electrical industry	2024-04-09	2024-04-30	Electronic mechanics	View Delete Update

- Manage faculties

MANAGE FACULTIES		
ID	Faculty name	Action
14	Artificial intelligence	View Delete Update
12	Business administration	View Delete Update
32	Electronic mechanics	View Delete Update
8	Graphic and digital design	View Delete Update
3	Information technology	View Delete Update
11	Math	View Delete Update

Admin can register accounts for students, marketing managers, and marketing coordinators.

ADMIN
REGISTER

Username:
std5

Password:
•

Email:
vanhue2652k2@gmail.com

Role:
student

Faculty:
Electronic mechanics

Register

ADMIN
REGISTER

Username:
tch5

Password:
•

Email:
huenguyen260502@gmail.com

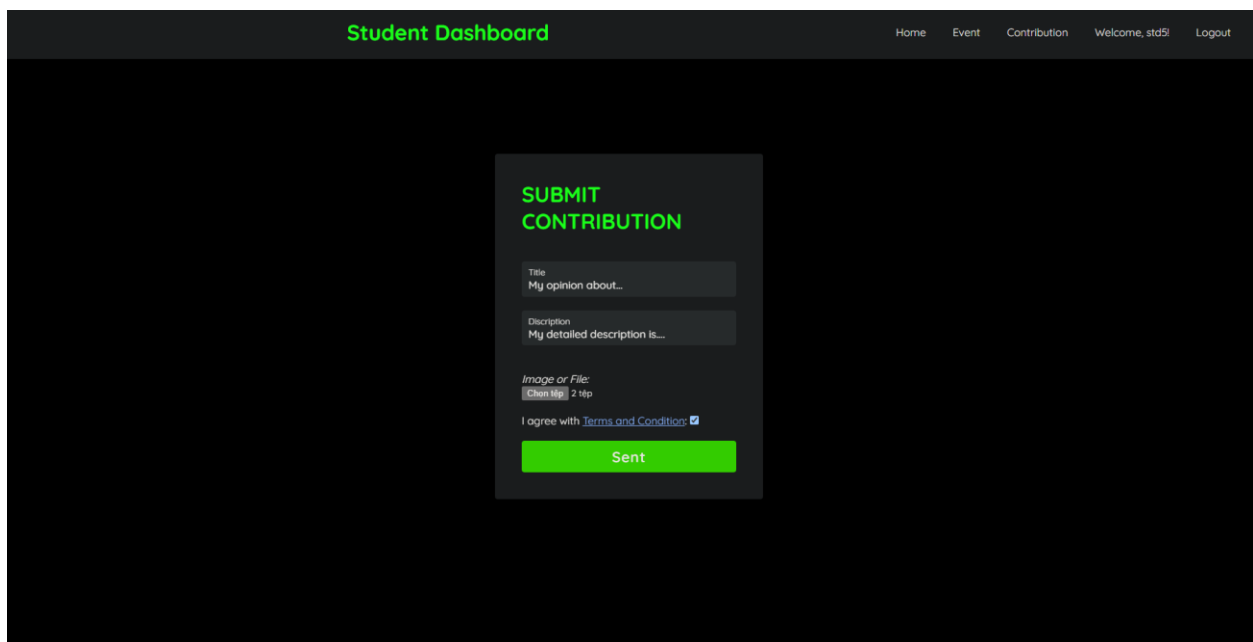
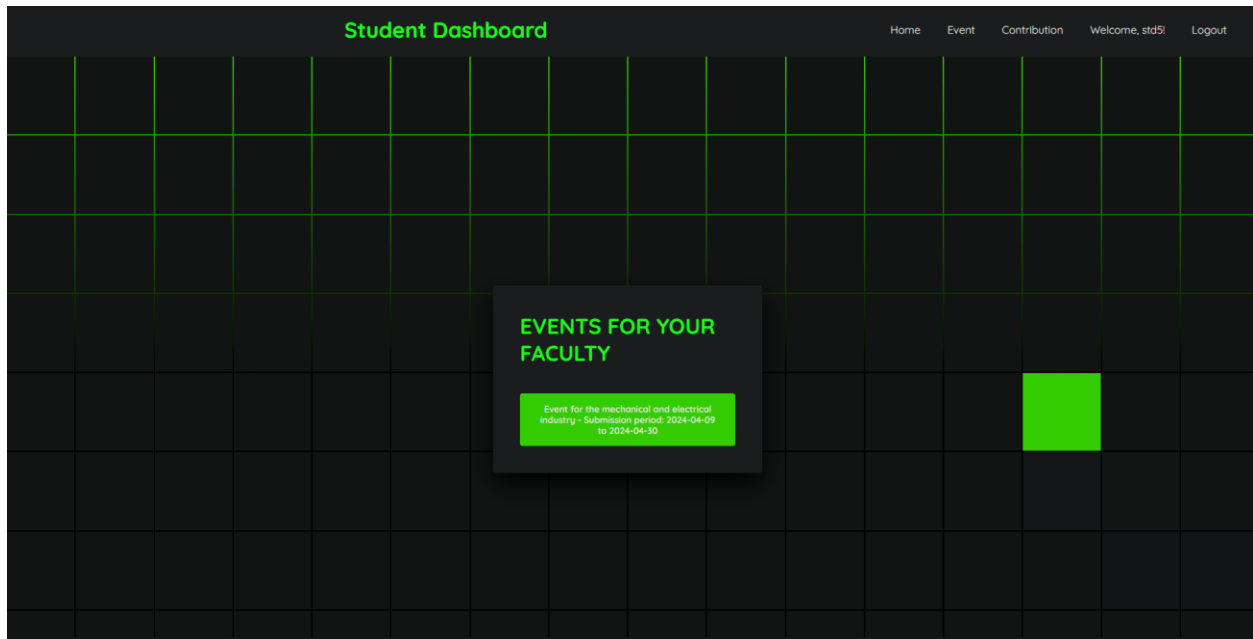
Role:
Marketing Coordinator

Faculty:
Electronic mechanics

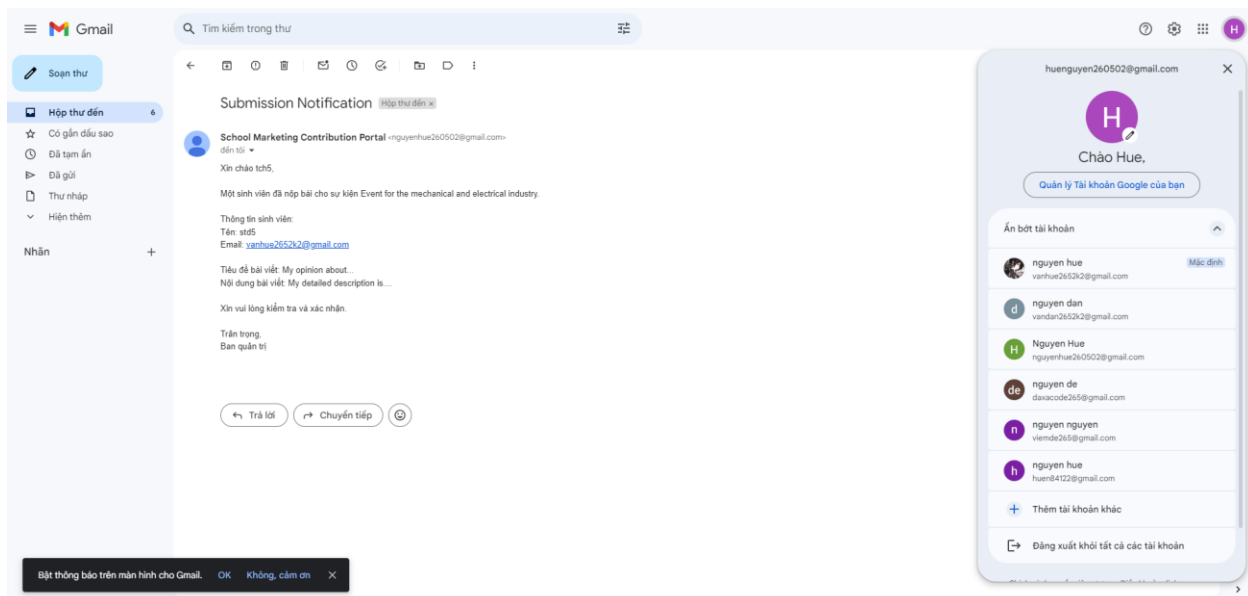
Register

3. Some other important pages

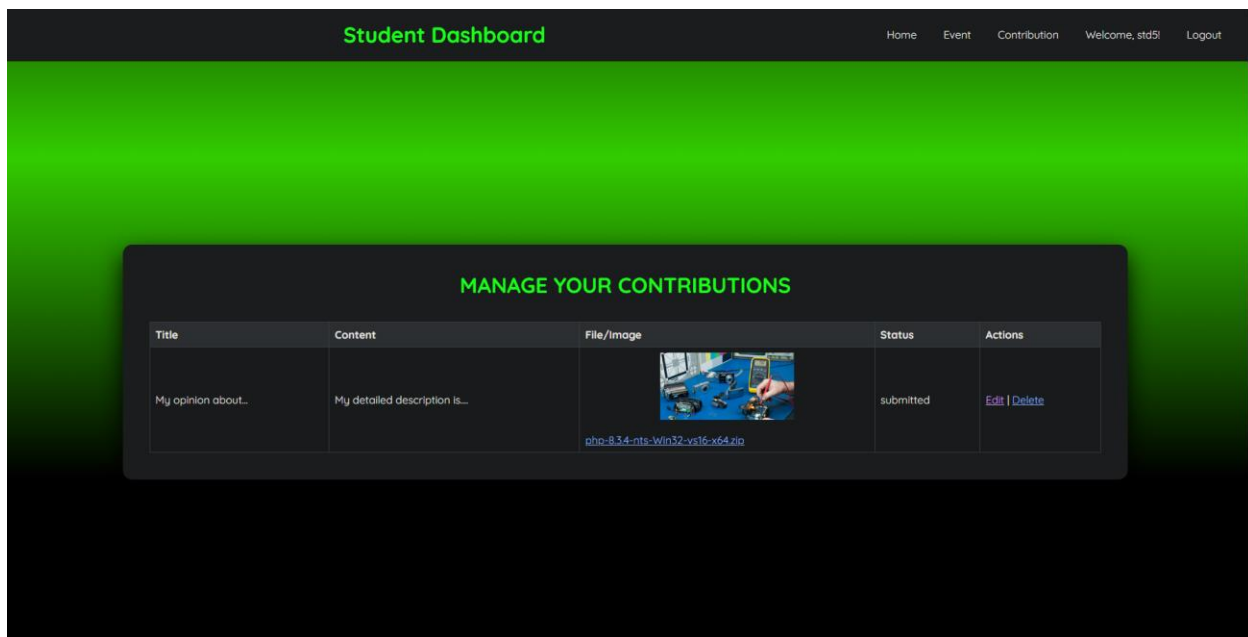
- Student submit page



On this page, students can select events that admins have created for their faculty so they can submit contributions for marketing coordinators to comment on. When student clicks submit, there will be an email notification to the corresponding marketing coordinator of that faculty

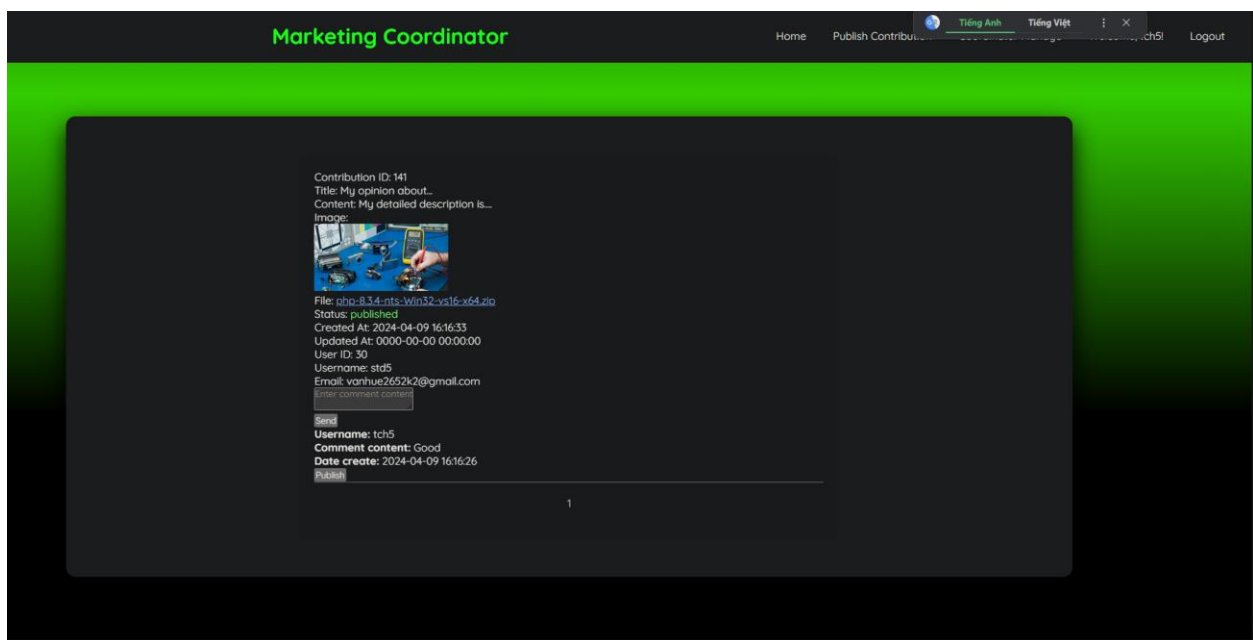
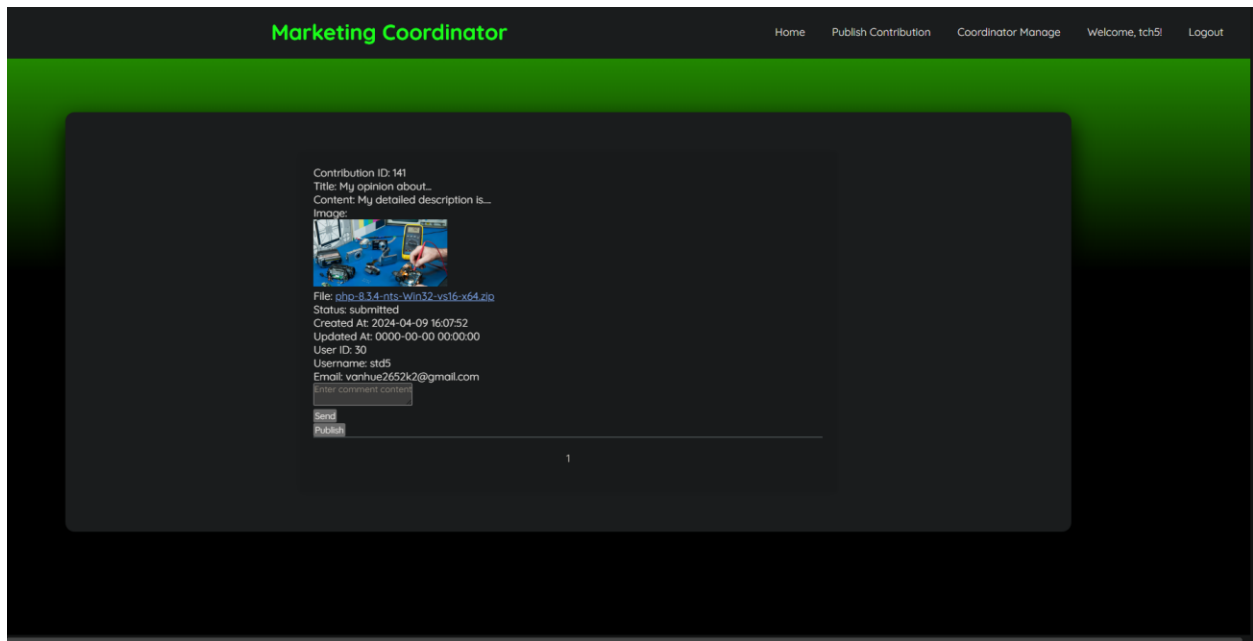


And students can also view their contributions and edit it before it's due.



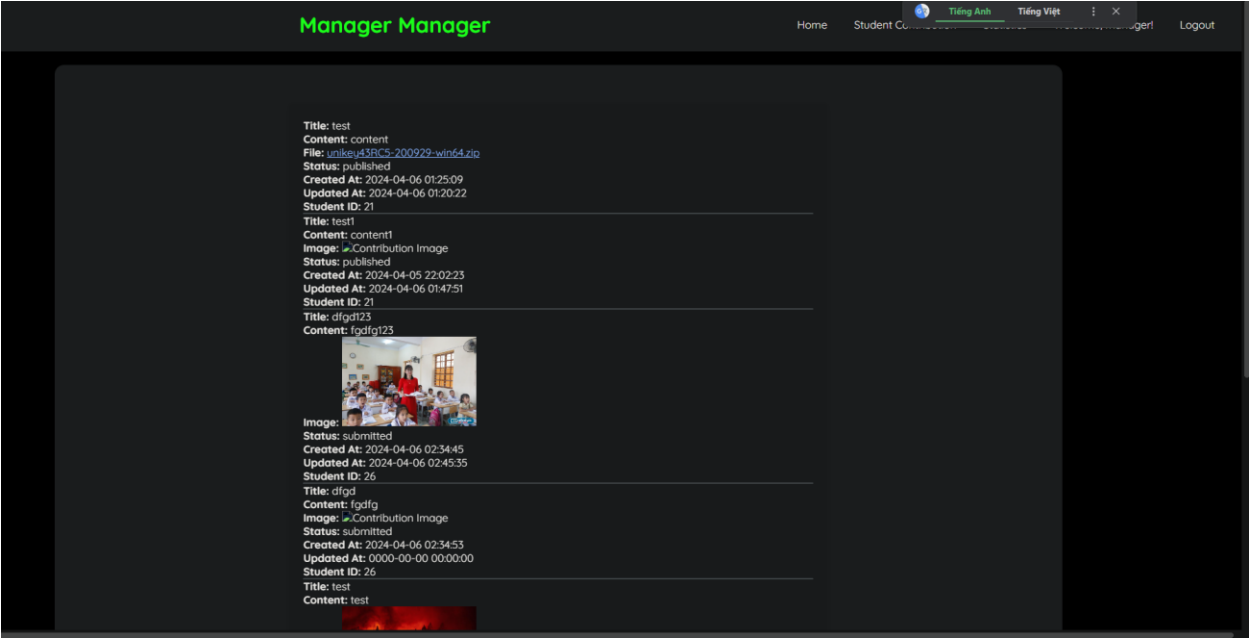
- Marketing Coordinator page

Coordinators can view contributions from students in their faculty and can comment and publish good contributions.



- Marketing Manager page

Manager can view all contributions from faculties

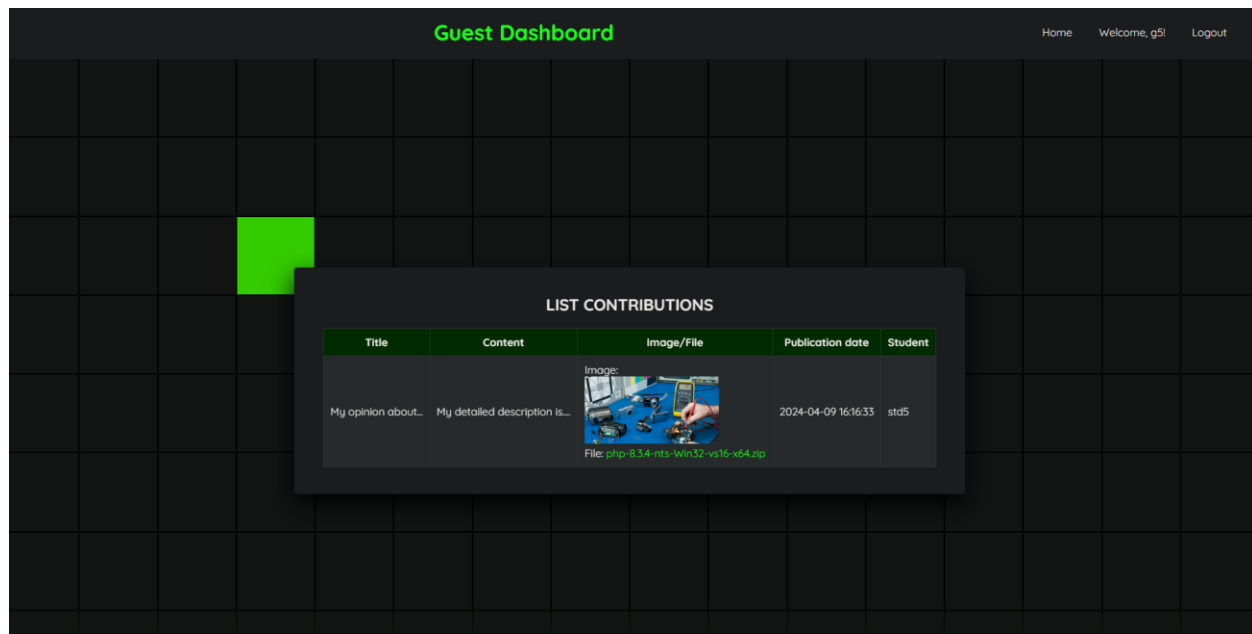


And Manager can view statistics in the dashboard such as number of contributions per faculty, contribution rate of each faculty, number of contributors (students) per faculty.



- Guest page

Guests can view published reports for their department



➤ Evaluative comments on the product:

- Pros:

Clear permissions module: This website has a good permissions scheme; each user role has appropriate functionality without causing confusion. Administrators, students, marketing coordinators, marketing managers, and guests all have distinct interfaces and functions, which helps optimize user interaction with the site.

Comprehensive management functions: Administrators have the ability to manage accounts, create events, and perform data maintenance. This functionality, combined with a detailed admin permissions panel, makes it easy for administrators to run the site.

Provide detailed statistics: The feature that allows viewing detailed statistics on the number of contributions and interactions for each department is a huge advantage, especially for marketing managers.

Update contributions: Students can update their contributions until the last closing date. This helps improve content quality and ensure students are satisfied with their work.

Responsive nature: Receiving email notifications of new contributions from students is a strength, helping the marketing coordinator stay up to date with what's going on.

Document Management: Allowing marketing management to download all documents as ZIP files helps in organizing and sorting documents effectively.

- Cons:

Lack of preview mode: Students cannot preview their contributions before submitting, which can cause some content quality issues.

Lack of notifications to students: There are no automatic notifications sent to students when there are new comments from the marketing coordinator about their contributions. This can hinder communication between the two parties.

Lack of search function: In the current website, there is no search function that allows users to quickly find the needed content.

Limited interface: The current website's interface is only suitable for computers and cannot be designed on phones. In addition, this website uses mainly black background, so it will cause discomfort for those who are used to using light background. Currently, the website has not changed the background.

Document restrictions: The current website can only send files and file types such as jpg, jpeg, png, gif.

- Further improvements:

Based on the shortcomings that the author's website lacks, measures can be taken to improve the website as follows:

Add student preview: This is a very useful feature for students to ensure that they are satisfied with their contributions before submitting. This also helps minimize the number of edits or updates needed after submission.

Add notification functionality for students: Students should receive automatic notifications when there are new comments from the marketing coordinator about their contributions. This will help increase communication between students and coordinators, and make it easier for students to improve and edit their contributions.

Create more search functionality: Integrating a more powerful and flexible search engine, allowing users to search by keyword, date, contribution type or specific user, will help enhance the user experience use.

Set up compatibility with mobile devices: Nowadays, many people use phones or tablets to access the Internet. Optimizing your user interface to fit all screen sizes will help your website reach more users and provide a better user experience.

Provide options to change layout and colors: Some users may prefer different layouts and colors. Providing options that allow users to customize the layout and colors can help them feel more comfortable using the website.

Expanded support for more file types: Expanding upload capabilities to include more file types such as Word, Excel, PowerPoint, PDF, image and video types could be useful. This will create more flexibility for users in terms of uploading the content they want to share.

I.2. Evaluation of Process

1. Product Backlog

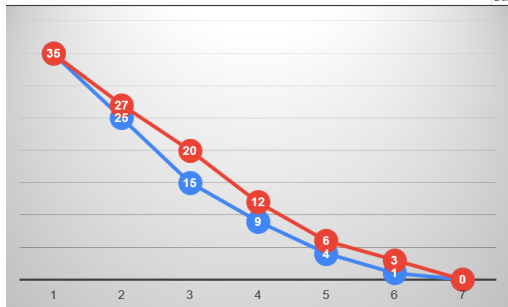
Story ID	As a/an	Story	priority	added in sprint
1	guest	I want to login my Account so that I can do my job	Must Have	Sprint 1
2		As a guest, I want to view selected reports for a specific Faculty.	Must Have	Sprint 4
3		I want to see a user-friendly interface on all devices (mobile phones, tablets, desktops).	Must Have	Sprint 1
4		As a guest, I want to view the Terms and Conditions before accessing selected reports.	Could Have	Sprint 4
5	student	I want to login my Account so that I can do my job	Must Have	Sprint 1
6		As a student, I want to submit articles to the university magazine.	Must Have	Sprint 3
7		As a student, I want to upload high-quality images for my contributions.	Must Have	Sprint 3
8		I want to see a user-friendly interface on all devices (mobile phones, tablets, desktops).	Must Have	Sprint 1
9		As a student, I want to receive a notification noticing that I have successfully submitted my works.	Could Have	Sprint 3
10	Marketing Coordinator	As a student, I want to view and accept the Terms and Conditions before submitting my works.	Must Have	Sprint 3
11		I want to login my Account so that I can do my job.	Must Have	Sprint 1
12		I want to see a user-friendly interface on all devices (mobile phones, tablets, desktops).	Must Have	Sprint 1
13		As a Marketing Coordinator, I want to manage contributions for my Faculty.	Must Have	Sprint 3
14	Marketing Manager	As a Marketing Coordinator, I want to provide feedbacks on students' works in my Faculty to edit their contributions.	Should Have	Sprint 3
15		As a Marketing Coordinator, I want to download submitted contributions for offline review.	Should Have	Sprint 3
16		As a Marketing Coordinator, I want to select contributions for publication in the magazine.	Must Have	Sprint 3
17	Marketing Manager	I want to login my Account so that I can do my job.	Must Have	Sprint 1
18		I want to see a user-friendly interface on all devices (mobile phones, tablets, desktops).	Must Have	Sprint 1
19		As a Marketing Manager, I want to view all contributions on all different Faculties.	Must Have	Sprint 4
20		As a Marketing Manager, I want to download all uploaded documents in ZIP format.	Should Have	Sprint 4
21	administrator	As a Marketing Manager, I want to view statistics in dashboard.	Should Have	Sprint 4
22		I want to login my Account so that I can do my job.	Must Have	Sprint 1
23		As an admin, I want to have CRUD on faculty, Account (Guest, Student, Marketing Coordinator, Marketing Manager).	Must Have	Sprint 2
24		I want to see a user-friendly interface on all devices (mobile phones, tablets, desktops).	Must Have	Sprint 2
25		As an admin, I want to create annual event then set first closure date & final closure date.	Must Have	Sprint 2
		As an admin, I want to maintain system data.	Must Have	Sprint 2
		As an admin, I want to create new accounts for all user types.	Must Have	Sprint 2

In this section, the author and his team created a table to describe requirements from different types of users, thereby analyzing the priority of tasks and ranking them in order to be completed efficiently. most optimal.

2. Sprints

- Sprint 1

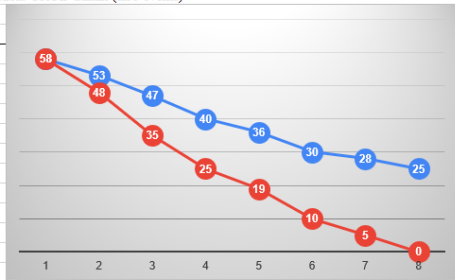
Task name	Volunteer	estimate time	Day 1 (09/03)	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Status
Create and design database for every data types in project	Vũ	6	4	2	0					Done
Code front-end for login page	Hiệp, Huệ	5	3	1	0					Done
Deploy the web online	Vũ	8	6	4	2	0				Done
Code draft pages for every required pages	Hiệp, Huệ	6	4	3	2	0				Done
Testing of linking MongoDB to project	Vũ	2	2	2	2	1	0			Done
Gather user requirements, drawing use cases for references	Minh, Hiếu	5	3	0	0	0	0			Done
Testing of first sprint's requirements	Vũ	3	3	3	3	3	1	0		Done
	Daily progress	35	25	15	9	4	1	0		
	Ideal progress	35	27	20	12	6	3	0		



In the first sprint, the author and his team decided to design the database and create interface files and put them online for testing.

- Sprint 2

Task name	volunteer	estimate time	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Status
Coding roles	Minh	3	1	0						Done
General testing and quality assurance	Vũ	3	3	3	2	2	2	0		Done
Create database for upload file and image	Vũ	6	4	2	0					Done
Code front-end for general upload	Hiệp, Huệ	6	6	6	6	4				Done
Code back-end for upload file	Hiếu, Minh	6	6	6	6	6	6	6	6	
Test upload file (docx)	Vũ	3	3	3	3	3	3	3	3	
Code back-end for upload images	Hiếu, Minh	5	5	5	5	5	5	5	5	
Test upload image	Vũ	3	4	3	3	3	3	3	3	
CRUD for admin creating accounts	Hiếu, Minh	8	6	4	0					Done
Code front-end of pages that need CRUD (Student, MC, MM, Guest, Admin)	Hiệp, Huệ	2	2	2	2	2	2	2	2	
Code frontend for the Marketing Coordinator to view the student's articles	Hiệp, Huệ	4	4	4	4	4	4	4	3	
Code backend for the Marketing Coordinator to view the student's articles	Hiếu, Minh	5	5	5	5	5	5	5	3	
Test function: CRUD admin (also events)	Vũ	4	4	4	4	2	0			Done
Daily progress		58	53	47	40	36	30	28	25	
Ideal progress		58	48	35	25	19	10	5	0	



In sprint 2, the task is to code the back end so that users can log in, register, assign roles, and perform the functions of each role. However, during the coding process, an unexpected accident occurred so the whole team could no longer continue the work. Some jobs were completed but some jobs were left unfinished, but some jobs remained. unfinished will be carried over to the next sprint.

- Sprint 3

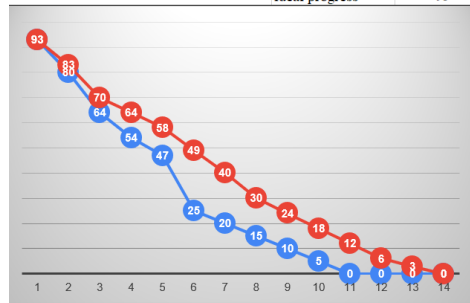
Task name	volunteer	estimate time	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Status
Code back-end for upload file (local)	Hiếu, Minh	3	3	3	3	3	2	0		Done
Test upload file (docx) (local)	Vũ	4	4	4	4	4	4	2	0	Done
Code back-end for upload images (local)	Hiếu, Minh	3	3	3	3	3	2	0		Done
Test upload image (local)	Vũ	3	3	3	3	3	3	1	0	Done
Code front-end of pages that need CRUD (Student, MC, MM, Guest, Admin) (local)	Hiệp, Huệ	7	5	2	1	0				Done
Code frontend for the Marketing Coordinator to view the student's articles (local)	Hiệp, Huệ	2	2	2	0					Done
Code backend for the Marketing Coordinator to view the student's articles (local)	Hiếu, Minh	4	4	4	4	2	0			Done
Database re-design	Hiếu, Minh	6	5	3	2	0				Done
Deploying Database on Azure	Vũ	4	4	4	4	2	1	0		
PHP Back-End	Hiếu, Minh	12	12	8	4	1	0	0		Done
Testing functions on Azure website through Swagger (No FE implemented yet)	Vũ	6	6	6	6	6	6	3	0	
Deploying Back-End on Azure	Vũ	3	3	3	3	3	0			
Daily progress		57	54	45	37	27	18	6	0	
Ideal progress		54	48	42	32	25	17	8	0	



In sprint 3, the team continued the unfinished work in sprint 2. Previously, the team used Nodejs and mongodb, but due to problems, the team decided to switch to using php and mysql. At this stage, the team has completed most of the front end functions and has decorated some front end pages. Besides, to deploy the website online, we no longer use render.com, the group decided to use Azure, but because the members are all new to this, they cannot push the website to Azure, the current group only has can run temporarily on the website dxfhbvjhdf.atwebpages.com.

- Sprint 4:

General QA	Everyone	10	10	10	10	10											Done
Back-End completion	Minh, Hiếu	20	16	10	5	2	0										Done
Database completion	Hiếu	10	6	0													Done
Deploy repository to server	Vũ	3	3	3	3	3	0										Done
Test Role Admin in sever	Everyone	5	5	5	5	5	0										Done
Test Role Marketing Manager in server	Everyone	5	5	5	5	5	5	0									Done
Test Role Marketing Coordinator in server	Everyone	5	5	5	5	5	5	5	0								Done
Test Role student in server	Everyone	5	5	5	5	5	5	5	5	0							Done
Test Role Guest in server	Everyone	5	5	5	5	5	5	5	5	5	0						Done
Test Email in server	Everyone	5	5	5	5	5	5	5	5	5	5	0					Done
Daily progress		93	80	64	54	47	25	20	15	10	5	0	0	0	0		
Ideal progress		93	83	70	64	58	49	40	30	24	18	12	6	3	0		



In this last sprint, the author team has completed all the functions from user requests and the pages have also been css to look better. The group's current work now is just to push the website to Azure to run online.

3. Evaluative comments on the Scrum process

- Pros:

To be honest, using the Scrum process has somewhat changed the way I work. First of all, I feel freer in choosing tasks and can be more flexible in setting my goals. Easily implementing new responses and changing direction when necessary has helped me see that I am no longer constrained to following a fixed work plan. This has helped improve my working spirit and reduce work pressure significantly.

Second, the way Scrum divides work into short-term sprints has made it easier for me to manage time and work. Specificity and clarity in planning work help me clearly understand what needs to be done and for what purpose. Overall, this transparency and clarity has created a work environment in which I am more comfortable and feel more secure in participating.

- Cons:

Despite its many advantages, I also realize that Scrum is not a perfect tool. Scrum's ability to adapt dynamically, while useful in many situations, can also create uncertainty and, in some cases, a sense of instability. This uncertainty can lead to difficulty in long-term work planning and sometimes create a loss of focus.

Second, Scrum requires everyone's commitment. This created pressure for me when a team member could not meet a request or could not keep up with the work schedule. In such situations, the pressure can increase and I have to find a way to handle these sensitive aspects.

Finally, the level of flexibility and constant change in Scrum can make it difficult to analyze and make predictions about project progress. This made me feel blocked and unable to really shape the overall image of the project. My need to stay alert and ready for constant change means that Scrum can lead to high levels of stress and demand a constant level of focus and effort from me.

- Things to improve when applying Scrum

First, I think I need to pay more attention to keeping the team stable, which means clearly defining the position and role of each team member. This way, each person will know clearly what they need to do and be responsible for their own work. This not only ensures consistency in workflow, but also reduces instability and the possibility of risks arising when a member cannot meet requirements.

Next, I need to be transparent, which means I will share information with the team about goals, work progress, and of course any difficulties or challenges the project is facing. This will help everyone on the team better understand the project and have a better grasp of the scope of their work.

Finally, I should schedule periodic progress checks and performance reviews. This helps me get an overview of what has been going on, thereby identifying issues that you may have missed during your work. At the same time, it also helps the team make timely adjustments, when necessary, thereby increasing the efficiency and effectiveness of the project.

II. Evaluation of team

During the process of applying Scrum to complete the project, I worked with my colleagues, each of them has their own advantages and disadvantages, including me but thanks to teamwork, we I can make up for each other's shortcomings. This section will focus on evaluating other members of my team.

II.1. Comments about colleagues

1. Vu

Combining extensive professional knowledge and sharp analytical thinking, Vu has constantly analyzed, adjusted and optimized options to solve tasks as well as ensure project progress. Vu's tasks such as creating and designing the database, deploying it online, and testing the MongoDB link with the project were all completed with a high level of quality, signaling a database design expert. and top-notch implementation. Vu also has a great influence on examining project requirements with back-end programming. Vu's quality monitoring and project control skills ensured progress and quality of work, making an important contribution to the success of the project.

2. Hiep

Hiep is a solid pillar in the front-end programming field of the project. Hiep's deep understanding of programming languages and good compliance with source code standards helped Hiep quickly

deploy and complete the initial pages and a number of other important pages for the project. Hiep is also the person behind the friendliness of the project's user interface, making interacting with the project more comfortable for users.

3. Hue (Me)

Not only supporting Hiep in building the project's front-end, I also work with Hiep in developing core pages that need CRUD features and other important pages of the project. Certainly, my work has helped make the project more user-friendly, with the goal of helping users have the best experience when interacting with the project.

4. Hieu

Hieu was responsible for programming the back-end, deciding the functions and operations of the website. With professional knowledge and strong programming skills, Hieu has built a powerful system to support image and file uploads, ensuring that users can use the website without hassle. Hieu has also contributed to improving the database, ensuring it is organized in a logical, efficient and secure manner.

5. Minh

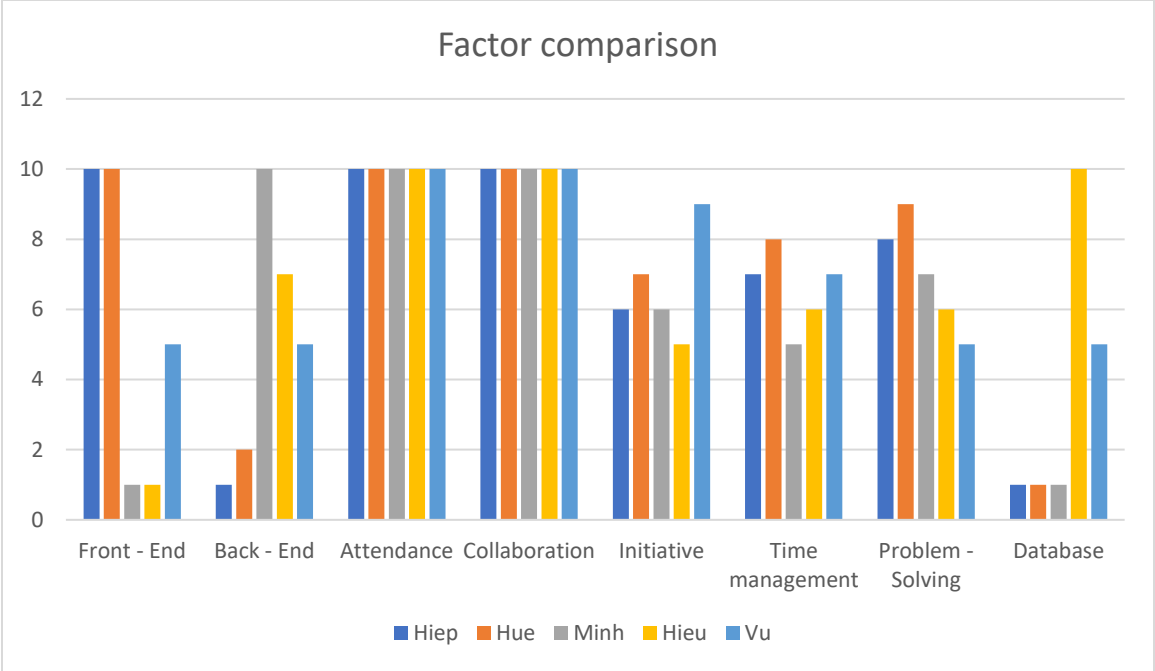
Starting the project with collecting user requirements and creating use case diagrams, Minh showed intelligence in capturing customer requirements and creatively proposing solutions. Minh is also responsible for back-end programming, where he plays a key role in ensuring all project functions operate correctly and smoothly.

II.2. Coefficient

- Factor table:

FACTOR	WEIGHT	Hiep	Hue	Minh	Hieu	Vu
Front - End	10	10	10	1	1	5
Back - End	10	1	2	10	7	5
Attendance	5	10	10	10	10	10
Collaboration	10	10	10	10	10	10
Initiative	8	6	7	6	5	9
Time management	8	7	8	5	6	7
Problem - Solving	6	8	9	7	6	5
Database	8	1	1	1	10	5
TOTAL	65	6.5	6.9	6.1	6.7	6.9

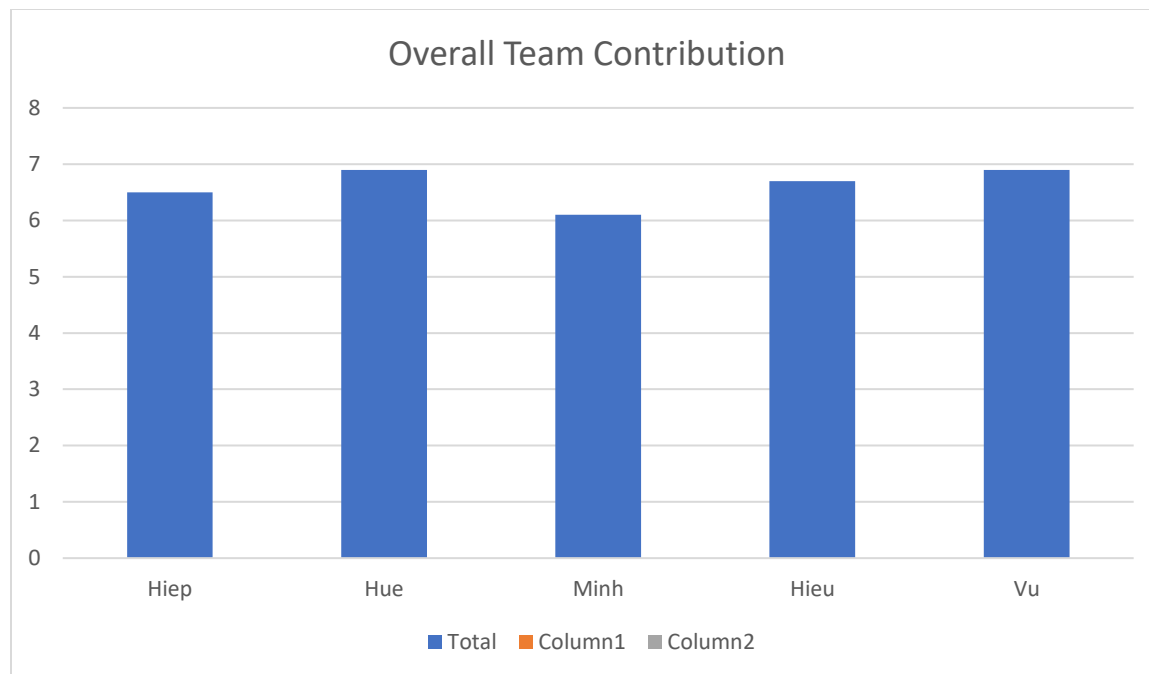
- Factor comparison:



- Grade of Overall Team Contribution:

PERSON	TOTAL
Hiep	6.5
Hue	6.9
Minh	6.1
Hieu	6.7
Vu	6.9

- Overall Team Contribution:



III. Self-evaluation

III.1. My contributions

I'm Hue, part of the team developing this project. As a front-end developer, I have a huge responsibility to ensure that users have a friendly, easy experience when using our website.

During the work process, I participated in many different stages and tasks of the project. I was part of the front-end programming team with Hiep, we created many of the initial websites for the project. User interface design is one of my main tasks.

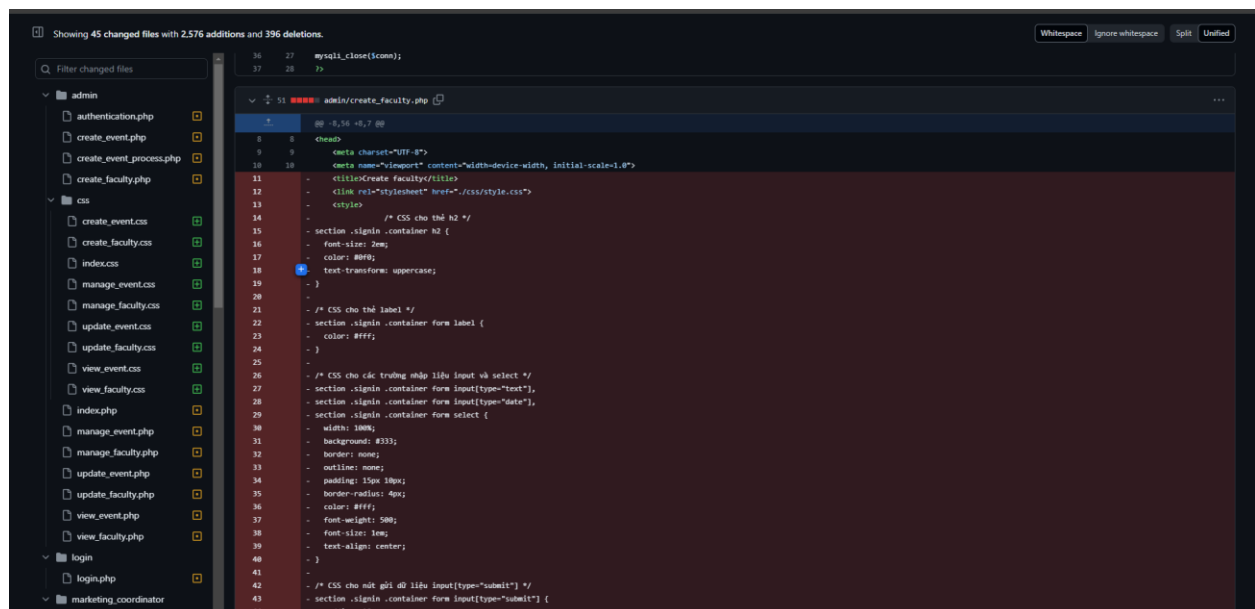
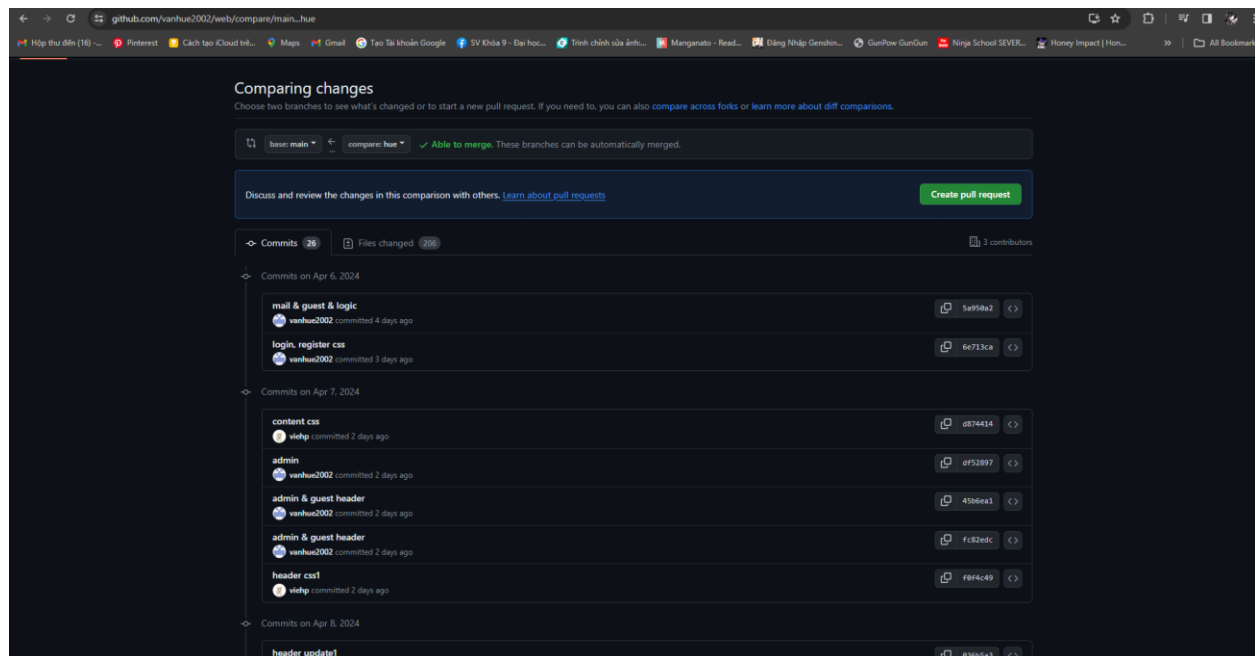
A large part of my time in front-end development has been heavy on CRUD features, which are essential to understanding the problem. I spent a lot of time programming and optimizing these pages so that users can navigate easily and lag smoothly.

Wait a minute, my work doesn't stop there. During my work, I also cooperated closely with Hieu and Minh in designing the database, and every time there were changes or additional data needed, I quickly updated the status and made adjustments. website interface accordingly. I have also designed pages for the Marketing Coordinator to view local students' work, ensuring that they can easily control and review their work in the most comfortable way.

I am confident that, with the skills and expertise I have applied to this project, I have contributed greatly to the project's success. However, I am also aware that there is always space to learn and improve, therefore, I will continue to try and do my best in future projects.

- Evidence:

I created a repository on github for everyone to work together. Here I did the work as described above



Link Github: <https://github.com/vanhue2002/web/>

III.2. Reflection on my own performance

When I look back at my work on this project, I am proud to say that I encountered many successes. My contributions at different positions on the project have not only helped me expand my professional knowledge but also recognize the value of effort, work pace and team collaboration.

Every time I complete a new goal or task is an opportunity for me to embrace success and discover more about my own abilities. My flexibility and willingness to learn and adapt have helped me overcome many barriers and challenges.

I feel very grateful to have worked with a trusted team who helped me broaden my perspective and learn from their experiences. I understand that everyone has something unique to contribute and that teams work best when we collaborate and support each other.

But I also realized one last thing: success in this project is not only the result of my work, but also the result of everyone's efforts. And that's what makes me feel most proud. To be part of a team with vision, determination and talent, with the common goal of bringing the best products to users. I will continue to take the opportunity to learn, grow and collaborate with other members to together take the project to even higher levels in the future.

III.3. Lessons learnt

Participating in this project, I have learned many valuable lessons from the work process.

First of all, I have truly understood the value of team collaboration. Each member has an important role and unique contributions. Respecting and accepting each person's differences has helped me understand that we can achieve better results through the combination of different abilities and ideas.

Second, I realize that flexibility and willingness to adapt to changes are even more important in a fast, constantly changing environment like information technology. Every time a requirement changes, I see it as an opportunity to learn and improve my skills.

Finally, working on the project helped me realize that continuously improving my skills and knowledge is extremely necessary. Digital technology is constantly evolving, and in order to not be left behind, I need to stay updated regularly and always be willing to learn.

These lessons not only helped me become a better frontend developer, but also taught me how to be a more effective member of a team, how to approach new challenges optimistically. and determination. I will definitely carry these lessons into my future work.