

Individual Report

COMP1640 - Enterprise Web Software Development

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Table of Contents

l.		Evalu	ation of product and process	6
	1.	Eva	luation of Product	6
		a)	Final Product Images	6
		b)	Evaluative comments on the product	. 13
	2.	Eva	luation of process	. 14
		a)	Product Backlog	. 14
		b)	Sprint Backlog & Burndown Chart	. 15
		c) N	leeting minutes	. 17
		d)	Requirement Analysis	. 20
		e)	Evaluative comments on the Scrum process: Pros, Cons and Further improvements 21	S
II.		Evalu	ation of team	. 22
III.		Self-e	valuation	. 23
	1.	Му	contributions	. 23
		a)	Sitemap	. 23
		b)	Wireframe:	. 25
		c) F	lowchart	. 42
		d)	Structure of front end files	. 53
	2.	Refle	ection on my own performance	. 55
	3.	Less	sons learnt	. 55

Figure 1: Login page	6
Figure 2: Admin page	7
Figure 3: Quality Assurance Manager page	7
Figure 4: Event page	8
Figure 5: Change password page	8
Figure 6: Assurance manager page	9
Figure 7: Latest ideas page	9
Figure 8: Dashboard number people page	10
Figure 9: Assurance coordinator page	11
Figure 10: Latest ideas page	11
Figure 11: Staff page	12
Figure 12:All submit ideas page	12
Figure 13: List staff	13
Figure 14: Product backlog Error! Bookmark not define	ed.
Figure 15: Sprint Backlog 1	15
Figure 16: Burndown chart 1	15
Figure 17: Sprint backlog 2	16
Figure 18: Burndown chart 2	16
Figure 19: Sprint backlog 3	16
Figure 20: Burndown chart 3	17
Figure 21: Meeting 1	17
Figure 22: Meeting 1	18
Figure 23: Meeting 2	18
Figure 24: Meeting 2	19
Figure 25: Meeting 3	19
Figure 26: Meeting 3	20
Figure 27: Sitemap admin	23
Figure 28: Sitemap assurance manager	24
Figure 29: Sitemap assurance coordinator	24
Figure 30: Sitemap staff	25
Figure 31: Wireframe login page	26
Figure 32: Wireframe admin page	26
Figure 33: Wireframe Quality assurance manager page	27
Figure 34: Wireframe Quality assurance coordinator page	28
Figure 35: Wireframe Quality staff page	29
Figure 36: Wireframe Add new user	30
Figure 37: Wireframe event page	31
Figure 38: Wireframe Details event page	32
Figure 39: Wireframe Add new event page	33
Figure 40: Wireframe Assurance manager page	34
Figure 41: Wireframe Latest ideas page	35

Figure 42: Wireframe category page	36
Figure 43: Wireframe Add new category page	37
Figure 44: Wireframe Details of dashboard page	38
Figure 45: Wireframe Assurance coordinator page	39
Figure 46: Wireframe Staff page	40
Figure 47: Wireframe list staffs page	41
Figure 48: Flowchart for adding accounts	42
Figure 49: Flowchart for updates Account	43
Figure 50: Flowchart for delete Account	44
Figure 51: Login page	45
Figure 52: Add new category	46
Figure 53: Delete category	
Figure 54: Download zip and csv	48
Figure 55: Flowchart of liking idea.	49
Figure 56: Flowchart of disliking idea	50
Figure 57: Flowchart for posting idea	51
Figure 58: Flowchart for comment	52
Figure 59: Admin	53
Figure 60: Partials	53
Figure 61: QAC	53
Figure 62: QAM	54
Figure 63: Staff	54
Figure 64: Css	54

Table 1: Evaluation of team	
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I. Introduction

In this report, we explore how the agile scrum methodology can be utilized to create a tailored enterprise web system through a series of iterative releases referred to as sprints. Our methodology follows the agile framework carefully, starting with planning and organizing, which entails using a product backlog to prioritize features. Each sprint is made up of a sprint backlog and a burn-down chart, which the team must discuss during weekly meetings. To ensure that each team member contributes effectively to the project, they must each take on a role that plays to their strengths and skill set. Last but not least, our duty entails developing a safe webbased role-oriented system to record improvement ideas from a top university's staff. We shall go into more detail about the project's many criteria and roles later on in this report.

II. Evaluation of product and process

- 1. Evaluation of Product
- a) Final Product Images

Login:

The login screen allows admin to login and staff, assurance manager, assurance coordinator can login using the account admin created for them. They will enter the correct username and password in the box and click the login button, if the information they have just entered is not correct, there will be a message.

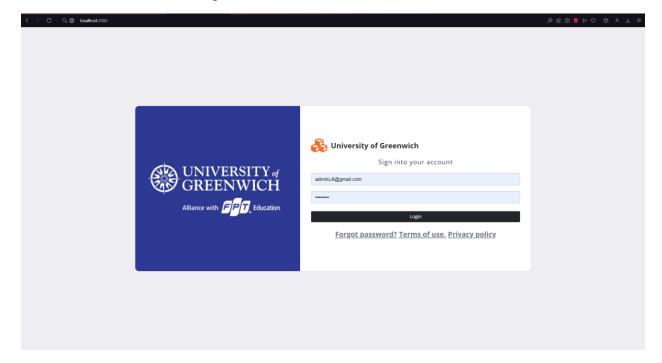


Figure 1: Login page

Admin:

The admin screen has a taskbar on the left that shows the function quality assurance manager, quality assurance coordinator, quality staff, and event. The taskbar above displays the username, the user can click on it to select change password or log out.

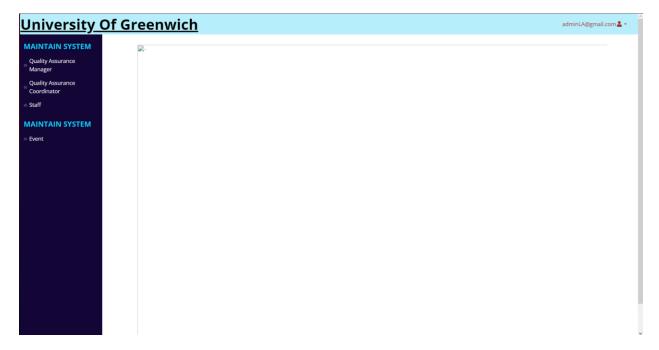


Figure 2: Admin page

This is the admin's quality assurance manager screen, admin can add new users, search for user information by username, edit and delete user information. The quality assurance coordinator and quality staff pages are similar.

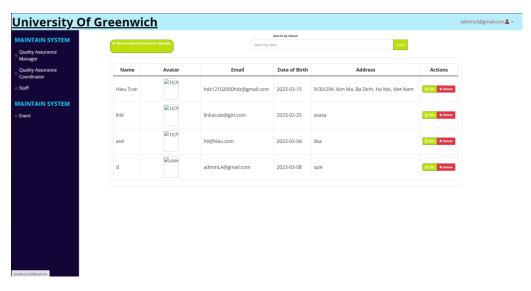


Figure 3: Quality Assurance Manager page

This is the admin's event screen, admin can search event information by name, edit event date information.



Figure 4: Event page

This is change password page. Admin can input new password to change, then press save button to save new password. The change password page of another role users are similar.

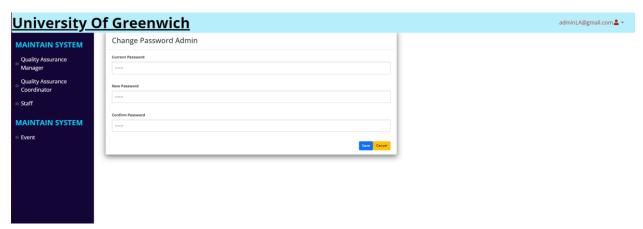


Figure 5: Change password page

Assurance manager:

The assurance manager screen has a taskbar on the left that shows the function latest ideas, most viewed ideas, category and dashboards. The taskbar above displays the username, the user can click on it to select change password or log out.

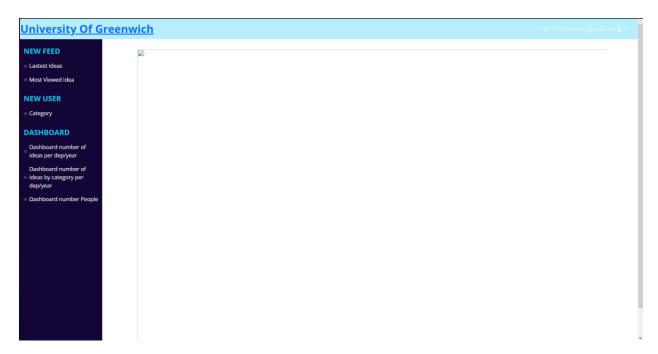


Figure 6: Assurance manager page

Latest ideas page shows ideas that were uploaded late

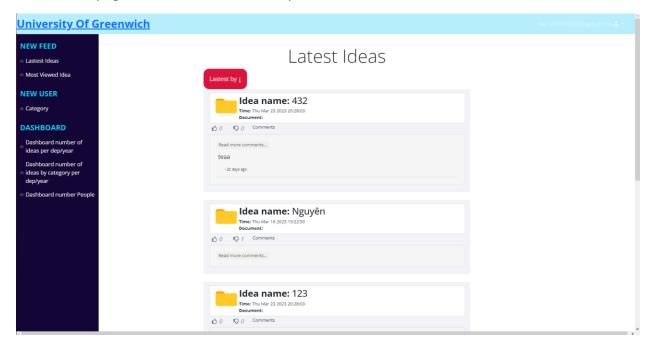


Figure 7: Latest ideas page

This is the assurance manager's quality category screen, they can add newcategory, search for category information by name, edit and delete category information. They can download zip file or csv file that include information of category.



Figure 8 Category:

This dashboard shows number of people in manager system of school.

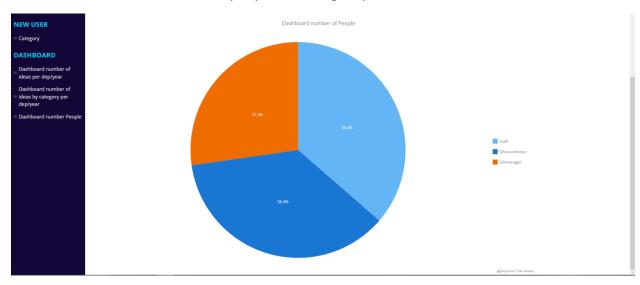


Figure 9: Dashboard number people page

Assurance coordinator:

The assurance coordinator screen has a taskbar on the left that shows the function latest ideas, most viewed ideas, most comments, latest comments. The taskbar above displays the username, the user can click on it to select change password or log out.

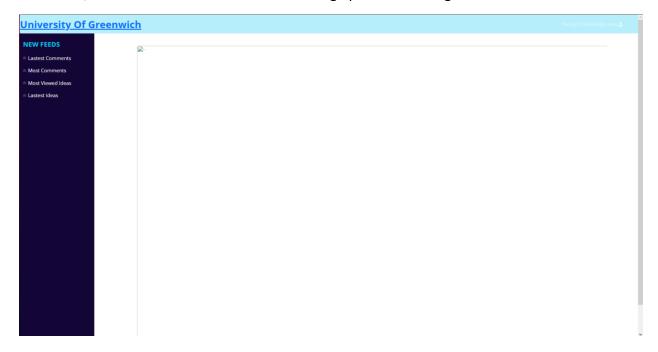


Figure 10: Assurance coordinator page

This page shows latest ideas.

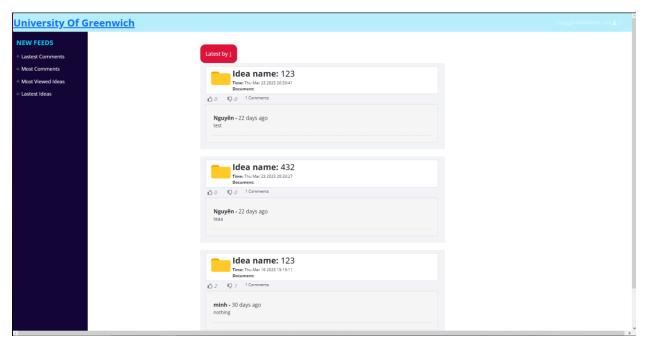


Figure 11: Latest ideas page

Staff

The Staff screen has a taskbar on the left that shows the function latest ideas, most viewed ideas, most comments, latest comments, all submit ideas, list staffs. The taskbar above displays the username, the user can click on it to select change password or log out.

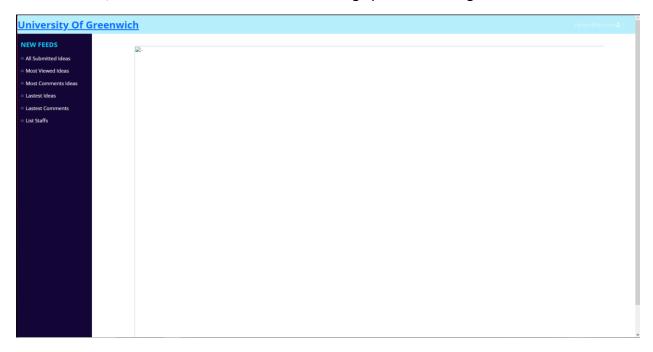


Figure 12: Staff page

All submit ideas page shows list information of all ideas. User can search staff by input name. User can create ideas.

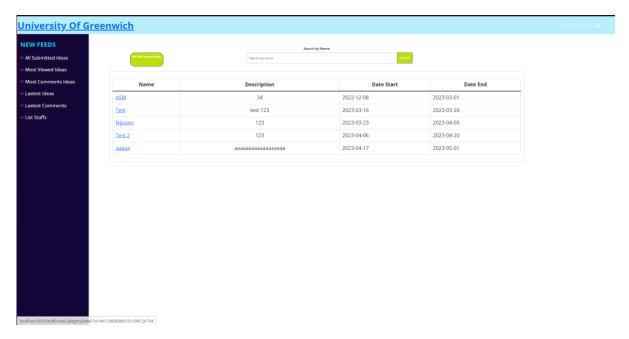


Figure 13:All submit ideas page

List staff page shows all information of staffs. User can search staff by input username.

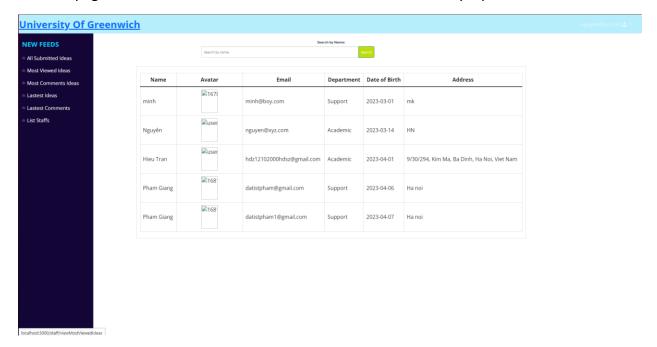


Figure 14: List staff

b) Evaluative comments on the product

Pros:

- To ensure that only authorized users may access particular functionalities, the system supports role-based access control.
- Users can interact with the system and submit their ideas using its user-friendly interface while also viewing other users' entries.
- The tracking of statistics offered by the system enables Quality Assurance Managers to keep track of developments and pinpoint areas in need of improvement.
- The program enables the download of data and files in the CSV and ZIP formats, respectively.

Cons:

- The collecting and storage of user data may raise privacy issues that the system will need to solve.
- To stop unwanted access to sensitive data, the system could need additional security measures.

Further improvements:

• The system could allow for the integration of machine learning algorithms to automate the categorization and prioritization of idea submissions.

 The system should have feedback mechanism to enable users to provide suggestions for system improvement.

2. Evaluation of process

For this project, the Agile technique was our first choice because it allowed us to design and execute a top-notch website. In order to accomplish this, we chose Scrum, a crucial framework for managing large projects that is part of the Agile approach.

a) Product Backlog

Story ID	As a/an	Story	priority	added in sprint	story point (10/10)
1		I want to login to my account	Must have	1	10
2		I want to see the lists of Most Popular Ideas, Most Viewed Ideas, Latest Ideas and Latest Comments	Must have	2	7
3		I want to add add additional categories, delete unused categories	Must have	2	7
4		I want to view statistics of number of ideas per department/year	Should have	3	8
5		I want to view numbers of contributors (staffs with idea submission) per departments	Should have	3	8
6		I want to dowload all idea data after the final closure date in CSV file	Should have	3	8
7	Quality Assurance Manager	I want to dowload all uploaded documents in ZIP format	Should have	3	8
8		I want to login to my account	Must have	1	10
9		I want to receive email notifications for new submissions from staff	Should have	2	7
10	Quality Assurance Coordinator	I want to see the lists of Most Popular Ideas, Most Viewed Ideas, Latest Ideas and Latest Comments	Must have	3	10
11		I want to login to my account	Must have	1	10
12		I want to submit 1 or many documents until the first closure date	Must have	3	10
13		I want to see all submitted ideas	Must have	3	10
14		I want to read comment for any other ideas	Must have	3	10
15		I want to give comment for any other ideas until the final closure date	Must have	3	10
16		I want to give Like or Dislike for any idea.	Must have	3	10
17		I want to receive email notification	Should have	3	10
18	Staff	I want to see the lists of Most Popular Ideas, Most Viewed Ideas, Latest Ideas and Latest Comments	Must have	3	10
19		I want to login to my account	Must have	1	10
20		I want to create new accounts for each role	Must have	1	10
21		I want to set, edit first closure date and final closure date	Must have	3	10
22		I want to maintain system data	Must have	3	10
23	Admin	I want to See the lists of Most Popular Ideas, Most Viewed Ideas, Latest Ideas and Latest Comments	Must have	3	10

Figure 15: Product backlog

In accordance with our Agile methodology, we selected 23 user functions after assessing and examining the system. Three priority levels were assigned to each of these tasks: "Should have," "Must have," and "Could have been." The "Must Have" functions, which are highlighted in red, are vital to the system's success. The system might still function without the "Should have" characteristics, which are denoted in yellow but are not required.

b) Sprint Backlog & Burndown Chart

	SPRINT 1										
ID	User's story	Tasks	Responsible	Original Estimate (hours)	Day1 (22/02)	Day2 (23/02)	Day3 (24/02)	Day4 (25/02)	Day5 (26/02)	Day6 (27/2)	Status
		Code Login Page	Nguyễn Hà Nguyên Trần Trung Hiểu	3	2	1	1	0	0	0	Completed
		Testing login page	Dương Tiến Thành	3	1	0	1	0	0	0	Completed
	As a / an User, I want to	Code Back-end login function	Nguyễn Hà Nguyên Phạm Quang Huy	4	2	1	1	0	1	0	Completed
18	be able to log in to the system	Design and create table users and groups	Nguyễn Gia Nam Trần Anh Tú	5	3	1	2	1	0	0	Completed
		Code User information Page	Trần Trung Hiểu	3	2	2	0	1	2	0	Completed
		Testing User information page	Dương Tiền Thành Nguyễn Gia Nam	1	1	1	1	1	0	0	Completed
		Code Back-end User information function	Nguyễn Hà Nguyên Phạm Quang Huy	3	1	2	1	1	0	0	Completed
19	As an User, i want to edit in	Design database for User information	Trần Trung Hiểu Phạm Quang Huy	3	2	1	1	0	0	0	Completed
		Code faculty Page	Nguyễn Hà Nguyên	4	3	1	0	1	0	0	Completed
		Testing faculty page	Dương Tiến Thành Nguyễn Hà Nguyên	2	1	0	1	0	1	0	Completed
		Code Back-end faculty function	Nguyễn Gia Nam	5	2	1	1	1	1	0	Completed
20	As an Admin, i want to cre- each coordinator to manage	Design database for faculty	Phạm Quang Huy	2	1	1	1	0	0	0	Completed
		Code search button	Nguyễn Hà Nguyên Trần Trung Hiểu	5	1	3	2	1	0	0	Completed
		Testing search button	Dương Tiến Thành	4	2	1	0	1	2	0	Completed
		Code Back-end search function	Nguyễn Hà Nguyên	3	3	1	1	1	0	0	Completed
21), i want to search information	Design database	Phạm Quang Huy Trần Anh Tú	2	2	0	1	1	0	0	Completed
			Trần Trung Hiểu								
		Code Front end admin page	Dương Tiến Thành	4	1	1	9	0	1	0	Completed
		Testing admin	Nguyễn Gia Nam	3	1	0	0	1	0	0	Completed
		create database for admin	Phạm Quang Huy	3	1	1	1	0	0	0	Completed
14	As Admin, I want to be able to manage all accounts .	apply front end to work with backend	Trần Trung Hiểu Nguyễn Hà Nguyên	6	2	3	2	1	1	0	Completed
	accounts .	apply nont end to work with backend	Actual Remaining Hours Estimated Remaining Hours	68	34	22	27 68	12	9	0	Completed

Figure 16: Sprint Backlog 1



Figure 17: Burndown chart 1

	SPRINT 2											
ID	User's story	Tasks	Responsible	Original Estimate (hours)	Day1 (1/3)	Day2 (2/3)	Day3 (3/3)	Day4 (4/3)	Day5 (5/3)	Day6(6/3)	Status	
		Code admin indexpage	Nguyen Ha Nguyen Nguyen Gia Nam	5	1	1	1	1	1	0	Completed	
		Testing admin functions	Duong Tien Thanh Tran Anh Tu	3	2	1	0	0	0	0	Completed	
		Code Back-end Admin function	Nguyen Ha Nguyen Pham Quang Huy	5	1	2	1	1	1	0	Completed	
15	ministrator, I want to add Staff, QA Manager, QA Co	Design database for user	Nguyen Gia Nam	3	1	1	1	0	0	0	Completed	
		Code Front end Staff page	Tran Trung Hieu	2	1	1		1	0	0	Completed	
		Testing staff function	Duong Tien Thanh	5	1	1	1	0	0	0	Completed	
		Design database for Staff	Vu Tien Hieu Nguyen Van Minh	3	2	1	0	1	1	0	Completed	
10	As a manager, I want to view category, lastest idea, most viewed idea	Code Back-end Staff function	Nguyen Van Minh Vu Tien Hieu	4	1	1	2	0	0	0	Completed	
			Actual Remaining Hours	30	10	9	6	4	3	0		
			Estimated Remaining Hours	30	20	10	5	0	0	0		

Figure 18: Sprint backlog 2

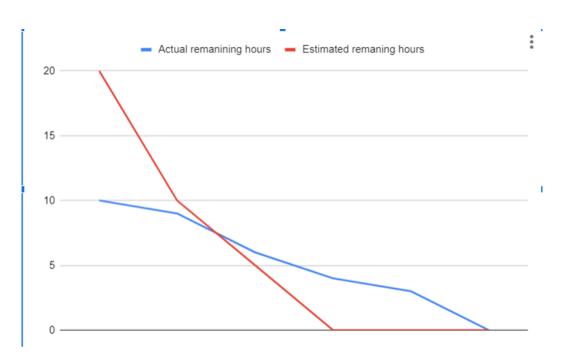


Figure 19: Burndown chart 2

	User's story	Tasks	Responsible	Original Estimate (Day1 (7/3)	Day2 (8/3)	Day3 (9/3)	Day4 (10/3)	Day5 (11/3)	Day6(12/3)	Day7 (13/3)	Day8 (14/3)	Day9 (15/3)	Day10 (16/3)	Day11 (17/3)	Day12(18/3)	Day13 (19/3)	Day14(20/3)	Status
		Code admin indexpage	Nguyen Ha Nguyen Nguyen Gia Nam	13	- 1	1	1	1	1	1	1	1	1	1	1	1	1	0	Completed
		Testing admin functions	Duong Tien Thanh Tran Anh Tu	5	2	1	0	0	- 1	0	0	1	0	0	0	0	0	0	Completed
		Code Back-end Staff function	Nguyen Ha Nguyen Pham Quang Huy	- 11	1	2	1	1		1	1	0	1	1	1	0	1	0	Completed
15	As a Staff, I want to submit idea, choose event	Design database for user	Pham Quang Huy	7	0	1	1	0	1	1	0	1	1	0	0	1	0	0	Completed
		Code Front end admin page	Tran Trung Hieu	8	1	1	0	1	1	0	1	1	0	1	1	0	0	0	Completed
		Testing admin function	Duong Tien Thanh	8	1	1	1	0	1	1	1	1	1	0	0	0	0	0	Completed
		Design database for admin	Vu Tien Hieu Nguyen Van Minh	8	1	1	0	1	1	0	0	1	0	1	1	1	0	0	Completed
10	As a Admin and QA, I want to view most liked idea, most disliked idea.	Code Back-end admin function	Nguyen Van Minh Vu Tien Hieu	8	1	1	1	0	1	2	1	1	0	0	0	0	0	0	Completed
		Code QAM indexpage	Nguyen Ha Nguyen Nguyen Gia Nam	8	1	1	1	0	1	1	1	1	0	1	0	0	0	0	Completed
		Testing QAM functions	Duong Tien Thanh Tran Anh Tu	6	2	1	0	0	1	0	0	1	0	0	0	1	0	0	Completed
		Code Back-end QAM function	Nguyen Ha Nguyen Pham Quang Huy	8	1	1	1	1	0	1	0	0	0	1	1	0	1	0	Completed
	a QAM, I want to see a dashboard show information in databa	Design database for QAM	Pham Quang Huy	7	1	1	1	0	1	1	0	1	1	0	0	0	0	0	Completed
		Code QAM indexpage	Nguyen Ha Nguyen Nguyen Gia Nam	7	1	0	1	1	1	0	1	1	٥	- 1	0	0	0	۰	Completed
		Testing QAM functions	Duong Tien Thanh Tran Anh Tu	5	2	1	0	٥	1	0	0	1	٥	0	٥	0	0	۰	Completed
		Code Back-end QAM function	Nguyen Ha Nguyen Pham Quang Huy	8	1	0	1	1	0	1	1	1	1	- 1	0	0	0	0	Completed
	As a QAM, I want to download ideas in CSV or ZIP file	Design database for QAM	Pham Quang Huy	5	1	0	1	0	1	1	1	0	0	0	0	0	0	0	Completed
			Actual Remaining Hours	122	18	14	- 11	7	13	- 11	8	13	- 0		5	- 4	3	0	
			Estimated Remaining Hours	122	20	20	15	10	15	15	10	20	10	10	5	5	0	0	,

Figure 20: Sprint backlog 3



Figure 21: Burndown chart 3

c) Meeting minutes

Meeting 1

Meeting subject: Assign roles group member

Meeting date: 22/02/2023

Meeting form: Online meeting. Tool: Google Meet

Meeting duration: 1 hour 15 minutes

Name	Role	Status
Nguyen Gia Nam	Scum master, Project manage	Attented
Nguyen Ha Nguyen	Backend developer	Attented
Tran Anh Tu	Frontend developer	Attented
Duong Tien Thanh	Tester	Attented
Pham Quang Huy	Database designer	Attented
Tran Trung Hieu	Frontend developer	Attented

Figure 22: Meeting 1

Topics Trainning project for team (router, controller, OOP) Refactor project structure, apply front end, config ip for project Analyze system requirements, design database, use case diagram, flowchart Set up environment, create database Apply framework build front end and apply with backend Examine and improve the team's code's login, logout, and registration features. Learn about react-js, node-js, mongodb Conclusions Learning new technologies Tasks Code Admin page and Login page, create faculty page Design and create table users and groups Apply front end to work with backend Test login and admin Deadline 28/02/2023

Figure 23: Meeting 1

Meeting 2

Meeting subject: Design system interface and coding important function

Meeting date: 01/03/2023

Meeting form: Online meeting. Tool: Google Meet

Meeting duration: 1 hour 10 minutes

Name	Role	Status
Nguyen Gia Nam	Scum master, Project manage	Attented
Nguyen Ha Nguyen	Backend developer	Attented
Tran Anh Tu	Business analyst	Attented
Duong Tien Thanh	Tester	Attented
Pham Quang Huy	Database designer	Attented
Tran Trung Hieu	Frontend developer	Attented

Figure 24: Meeting 2

Topics	
Build Front-end for Admin	
Get data from back-end	
Design front-end	
Get upload csv, zip files	
Fix mongodb create table Demo code reactJS Support member environment	
Conclusion	
Design web enterprise interface	
Tasks	
Code Student page, admin page	
Fix bug	
Create database	
Testing	
Deadline	07/03/2023

Figure 25: Meeting 2

Meeting 3

Meeting subject: Deploy on website

Meeting date: 20/03/2023

Meeting form: Online meeting. Tool: Google Meet

Meeting duration: 1 hour 30 minutes

Name	Role	Status
Nguyen Gia Nam	Scum master, Project manage	Attented
Nguyen Ha Nguyen	Backend developer	Attented
Tran Anh Tu	Business analyst	Attented
Duong Tien Thanh	Tester	Attented
Pham Quang Huy	Database designer	Attented
Tran Trung Hieu	Frontend developer	Attented

Figure 26: Meeting 3

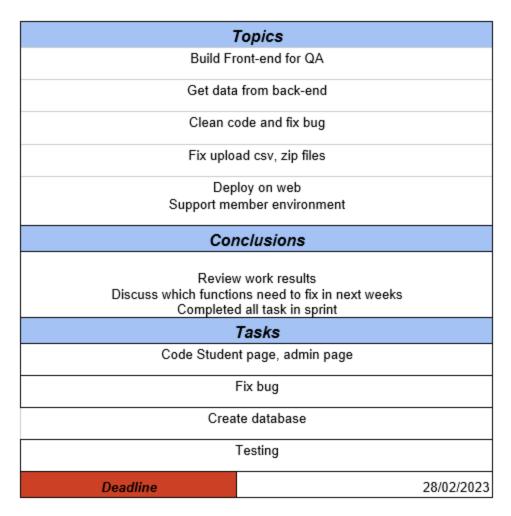


Figure 27: Meeting 3

d) Requirement Analysis

Our project involved designing a secure web-based role-oriented system for soliciting improvement suggestions from the staff members of a major university. The system comprises four distinct roles: Admin, Staff, Quality Assurance Manager, and Quality Assurance Coordinator. Each role has specific responsibilities outlined as follows:

- Admin: responsible for maintaining all system data and setting the closure date for submitting ideas.
- Staff: responsible for submitting their improvement ideas.
- Quality Assurance Manager: responsible for overseeing the entire process.
- Quality Assurance Coordinator: responsible for managing the process within their department and encouraging staff to participate actively.

e) Evaluative comments on the Scrum process: Pros, Cons and Further improvements

We evaluated the Scrum process and came up with the following list of its benefits, drawbacks, and potential areas for development:

Pros:

- Flexibility: Scrum approach enables adaptability to changes in project requirements, making it simpler to deliver products that satisfy customers' needs.
- Transparency: The daily Scrum meetings give team members a forum for free communication and transparency, which improves teamwork and morale.
- Incremental delivery: Scrum's iterative and incremental delivery approach makes sure
 that the product is supplied in brief but valuable bursts, encouraging early feedback and
 speedier value delivery.

Cons:

- Lack of documentation: Scrum approach downplays the importance of thorough documentation, which can make it difficult to grasp and clarify project requirements.
- Dependence on the team: The Scrum process relies largely on the team's dedication and willingness to follow the methodology, which might be difficult in particular circumstances.
- Time-consuming: Regular meetings and reviews are a part of the Scrum process, which can consume a lot of time and resources.

Further Improvements:

- Better communication: The Scrum process may be made more effective by enhancing communication channels and making sure that all stakeholders are appropriately informed about the project's status.
- Emphasis on documentation: Despite the Scrum methodology's preference for working software over documentation, making sure that it is thorough and current can help avoid misunderstandings and minimize errors.
- Clearer roles and responsibilities: The teamwork and participation of each team member can be enhanced by clearly outlining their roles and duties, which will result in a more effective Scrum process.

III. Evaluation of team

		Nguyễn	Phạm	×	Dương	Trần	Trần -
FACTOR	WEIGHT	Hà Nguyên	Quang Huy	Nguyễn Gia Nam	Tiến Thành	Anh Tú	Trung Hiếu
On time	6	8	9	8	9	9	9
Attendance	9	8	9	8	8	10	9
Contribute ideas	5	9	10	8	8	8	10
Functional skills	10	9	8	8	10	8	8
Knowledge	6	8	8	10	8	8	8
Communication	2	8	8	9	8	8	8
Friendly	5	10	8	9	9	9	8
TOTAL	43	8.6	8.6	8.6	8.6	8.6	8.6

Table 1: Evaluation of team

Nguyễn Hà Nguyên

Nguyen Ha Nguyen, the back-end developer, played a vital role in developing the project's server-side components. Their contributions to the project ensured that the system was reliable, secure, and scalable. His dedication to writing clean, efficient code helped to reduce the overall development time and ensured that the system was maintainable in the long run.

Phạm Quang Huy

Pham Quang Huy, the database developer, was responsible for designing and implementing the system's database architecture. Their expertise in database management systems helped to ensure that the system was efficient, reliable, and scalable. His contributions were instrumental in ensuring that the system could handle large volumes of data while maintaining optimal performance.

Nguyễn Gia Nam

Nguyen Gia Nam, the team leader, played a critical role in keeping the project on track and ensuring that all team members were working towards the same goals. Their communication skills were essential in keeping everyone informed and engaged throughout the project's life cycle. His ability to identify and resolve issues in a timely manner helped to ensure that the project was delivered on time and within budget.

Dương Tiến Thành

Duong Tien Thanh, the tester, was responsible for ensuring the system's quality by testing and identifying any issues or bugs. His attention to detail and dedication to delivering a high-quality product were essential in ensuring that the final product was reliable and met the client's requirements.

Trần Anh Tú

Tran Anh Tu - the front-end developers, were responsible for creating an engaging and intuitive user experience. Their ability to create visually appealing designs and develop responsive interfaces helped to ensure that the system was easy to use and accessible across different devices. His contributions were crucial in creating a final product that met the client's expectations and provided an enjoyable user experience.

Trần Trung Hiếu

I am front-end developer too, I work with Tran Anh Tu together. The project's success depended heavily on my commitment and excellent work, and I hope to keep developing my abilities and adaptability in future assignments.

Overall, each team member's contributions were instrumental in ensuring the project's success, and their dedication and expertise were essential in delivering a high-quality product. Working in an agile process, the team was able to collaborate effectively, adapt to changes, and deliver a product that met the client's requirements.

IV. Self-evaluation

1. My contributions

Assigned position in the team: Fornt end developer.

a) Sitemap

Admin page:

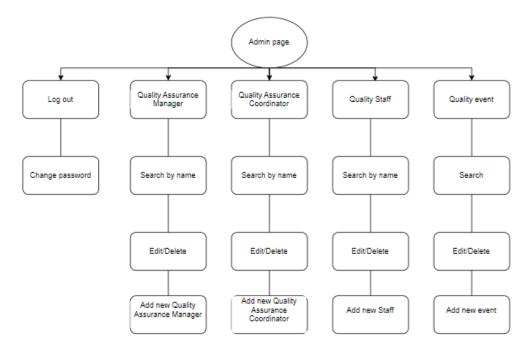


Figure 28: Sitemap admin

Assurance manager page:

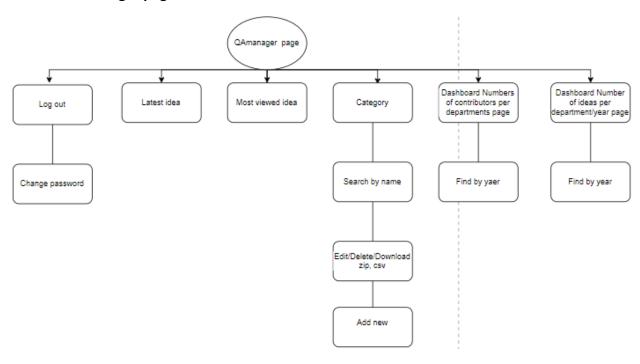


Figure 29: Sitemap assurance manager

Assurance coordinator page:

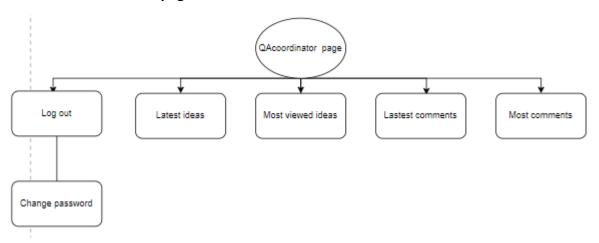


Figure 30: Sitemap assurance coordinator

Staff page:

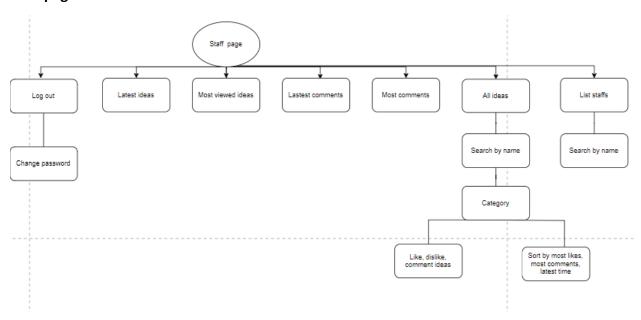


Figure 31: Sitemap staff

b) Wireframe:

Login page

The user will input the right username and password in the empty boxes on the login page and click the login button to gain access to the account that the admin created.

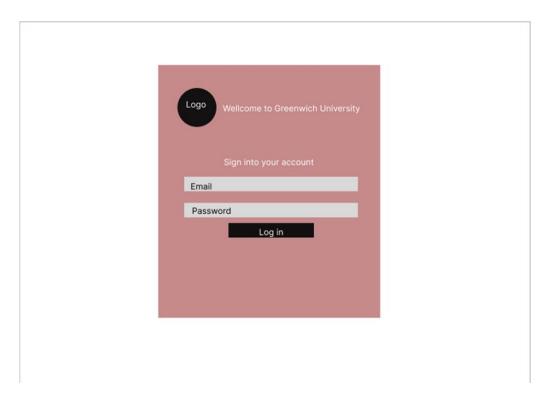


Figure 32: Wireframe login page

Admin page

The part on the admin page that displays the account username and the task bar with the quality assurance manager, quality assurance coordinator, quality staff, and event creation features.

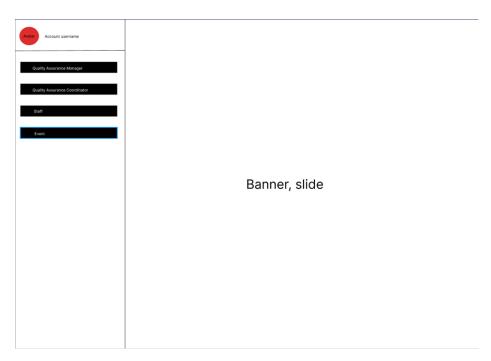


Figure 33: Wireframe admin page

Quality assurance manager page

Administrators have access to the quality assurance manager page, where they may add a new assurance manager, do a name-based search, and view the list of existing assurance managers.

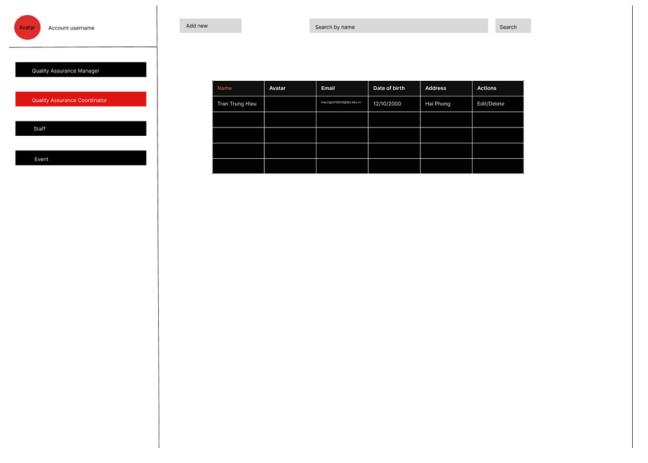


Figure 34: Wireframe Quality assurance manager page

Quality assurance coordinator page

Administrators can create a new quality assurance coordinator on this page, do a name-based search for assurance coordinators, and check the list of assurance coordinators shown below.

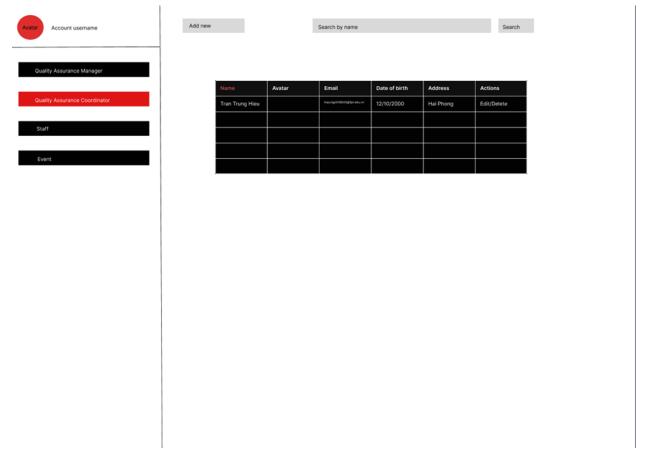


Figure 35: Wireframe Quality assurance coordinator page

Quality staff page

Administrators get access to the quality staff page where they may add new employees, do a name-based search, and examine the staff roster.



Figure 36: Wireframe Quality staff page

Add new assurance manager, assurance coordinator, staff page

This screen is where assurance managers, assurance coordinators, and staff can be added new information by admin.

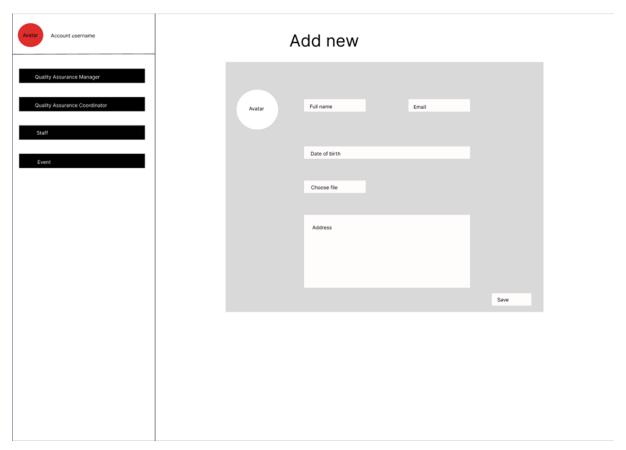


Figure 37: Wireframe Add new user

Event page

Admins can create a new event on the quality event page, search for events by name, and view the list of events below.

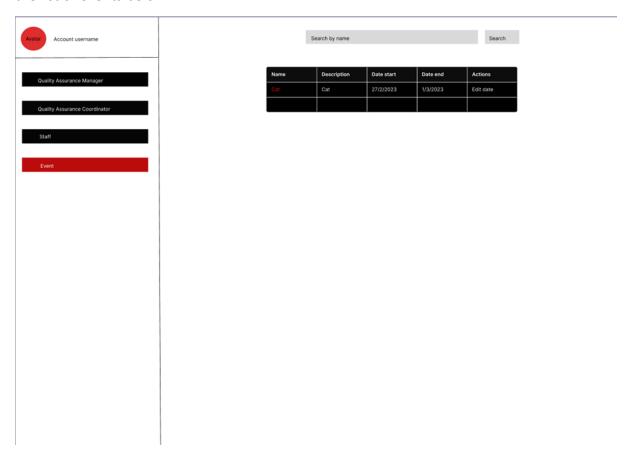


Figure 38: Wireframe event page

Details event page

Details of this event are given on this page.

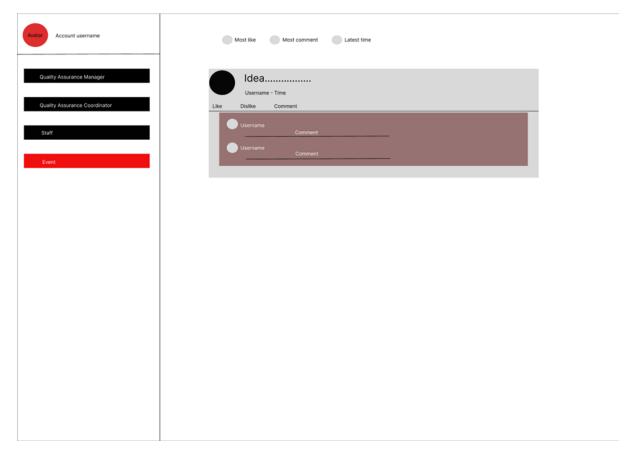


Figure 39: Wireframe Details event page

Add new event page

This page enables the administrator to update event information.



Figure 40: Wireframe Add new event page

Assurance manager page

On the quality assurance manager page, there is a section that displays the account username and a task bar with the functions of the most recent ideas, the most popular ideas, the categories, and a dashboard with information about the number of ideas by department/year and the number of contributors per department.



Figure 41: Wireframe Assurance manager page

Latest ideas page

This page shows details of latest ideas.

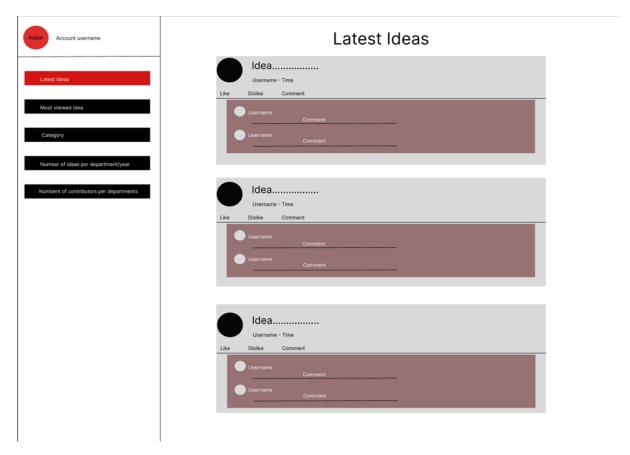


Figure 42: Wireframe Latest ideas page

Category page

The category page allows assurance manager create a new category, search for category by name and view the list of category below.



Figure 43: Wireframe category page

Add new category page

The assurance manager can enter data on this page to create a new category.

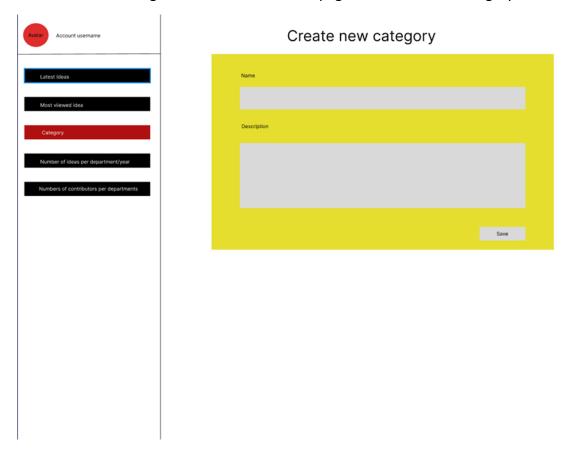


Figure 44: Wireframe Add new category page

Details of dashboard page

This page displays a chart with data from the dashboard.

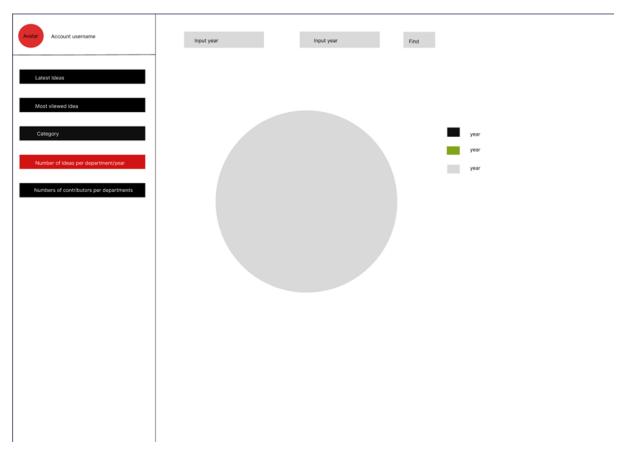


Figure 45: Wireframe Details of dashboard page

Assurance coordinator page

Quality assurance coordinator page has a section showing account username and task bar with functions of latest ideas, latest comment, most viewed ideas, most comments.

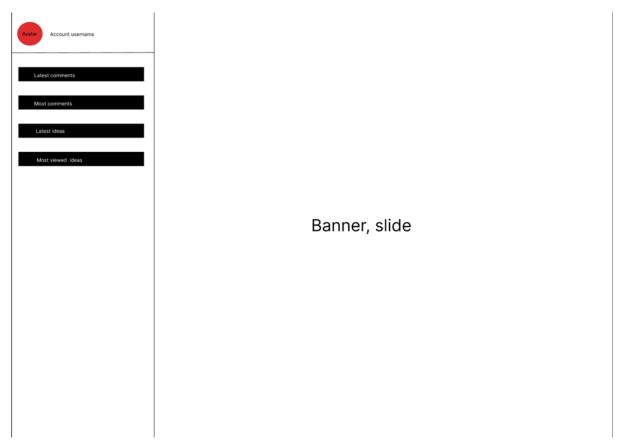


Figure 46: Wireframe Assurance coordinator page

Staff page

The task bar on the staff page includes buttons for all submit ideas, the most recent ideas and comments, the most popular ideas and comments, and a list of the staff.

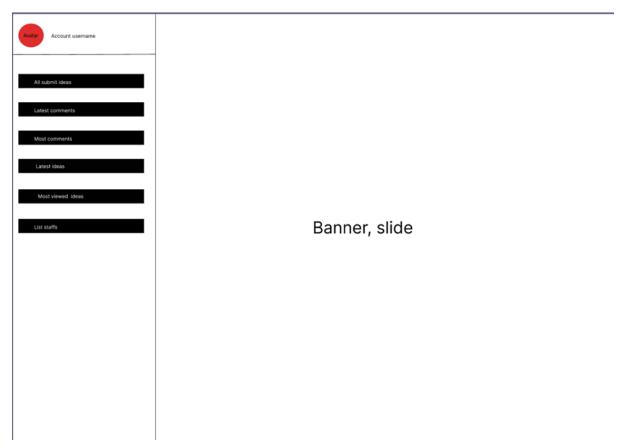


Figure 47: Wireframe Staff page

List staff page

All staff information is displayed on this website, and users can search by name.

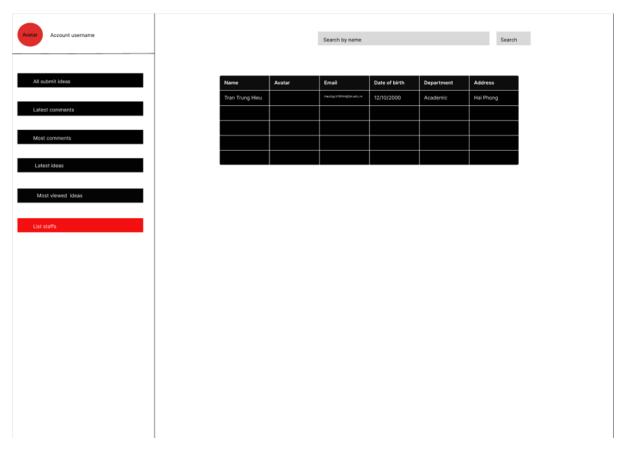


Figure 48: Wireframe list staffs page

c) Flowchart

Flowchart for adding accounts.

The administrator must provide data, such as a username, password, email address, etc., to create a new account. After that, the system will determine whether or not the newly generated account information is already in the system. A warning will be displayed if the freshly created data has already been recorded. New account information entered will be stored in the database.

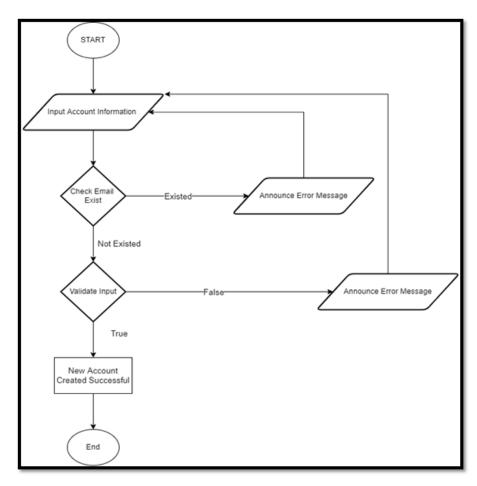


Figure 49: Flowchart for adding accounts

Flowchart for updates Account.

Using the edit information of account function, the admin will choose the account to edit and enter new information; if the information has already been entered and needs to be repeated, the admin must do so; if the information is entirely accurate, the account's data will be successfully changed in the database.

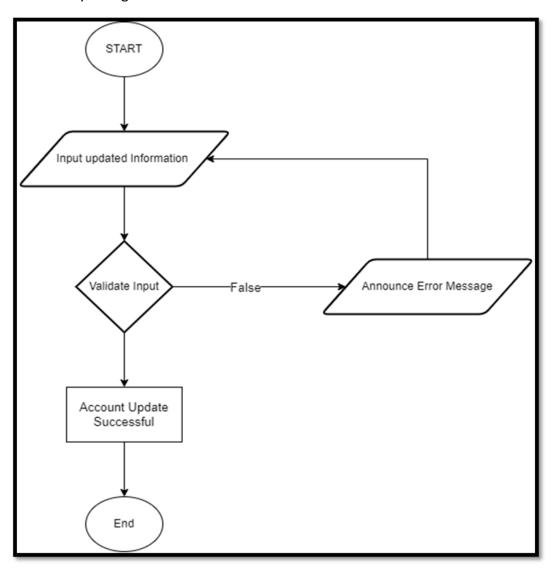


Figure 50: Flowchart for updates Account

Flowchart for delete Account.

With the delete account function, the administrator chooses the account to delete, receives a confirmation message from the system, and then selects "yes" to confirm the deletion of the data from the database.

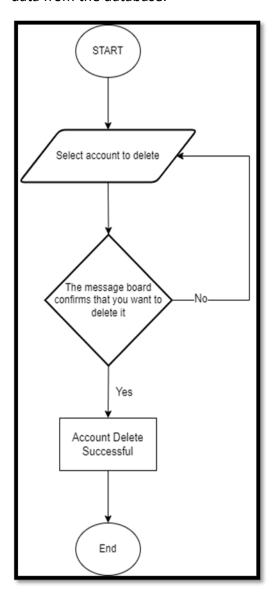


Figure 51: Flowchart for delete Account

Login page

To log in, the user must enter the username and password that the administrator has already set. If the necessary login information is given, the system will automatically assign the user to their appropriate role; if not, a notification will be displayed and the user will need to check in to the appropriate account.

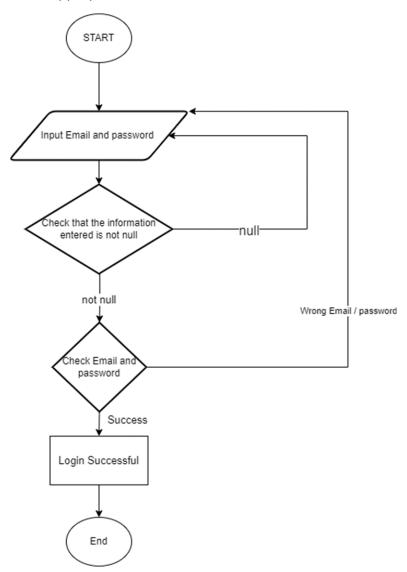


Figure 52: Login page

Add new category

The assurance manager must provide the category name in order to create a new category. The system will then determine whether or not the newly added category information is already there. A warning will be displayed if the freshly created data has already been recorded. The database will be stored with the information entered for a new category.

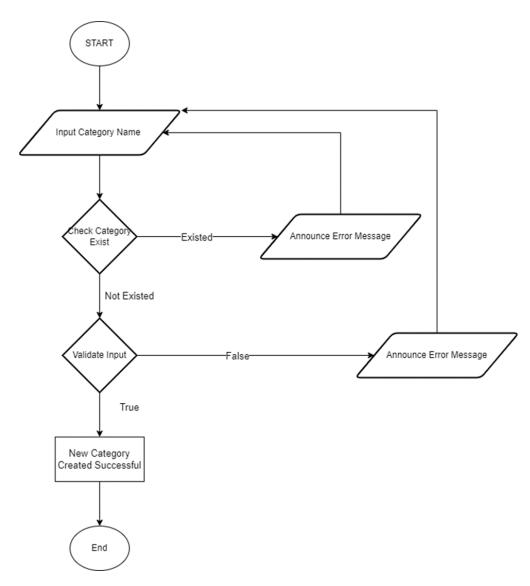


Figure 53: Add new category

Delete category

When using the delete category function, the assurance manager chooses the category to remove, receives a confirmation message from the system, and selects "yes" to confirm the deletion of the data from the database.

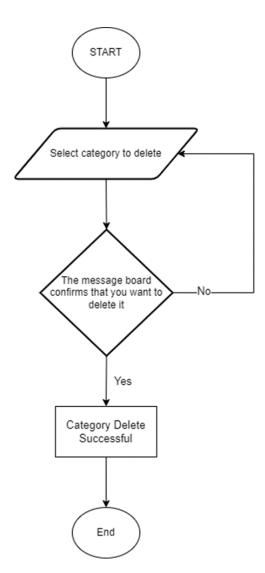


Figure 54: Delete category

Download zip and csv

The user can choose a category and download a zip or csv file containing that category's information.

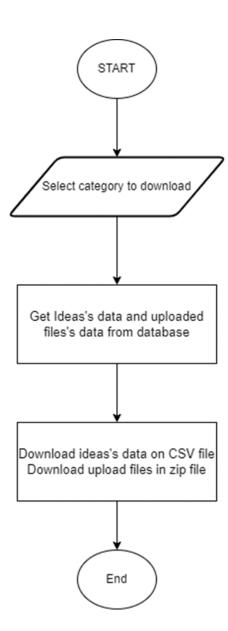


Figure 55: Download zip and csv

Flowchart of liking idea.

The system checks whether the user has liked or disliked the post when the user clicks the like button. If the user has liked the post, the system will send a notification; if the user has disliked it, the system will change dislike to like.

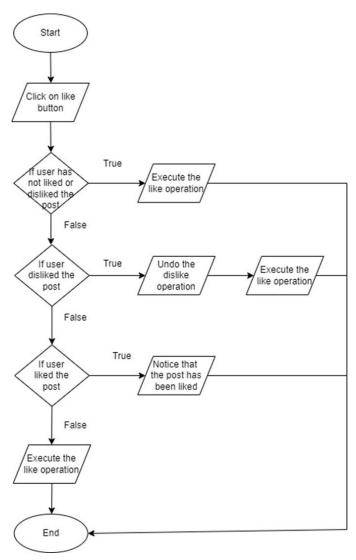


Figure 56: Flowchart of liking idea.

Flowchart of disliking idea

When a user clicks the dislike button, the system checks to see if the user has liked or disliked that particular post; if not, the user disliked it successfully; if the user disliked the post, the system will send a notification; if the user has liked that particular post, the system will remove the like and change the status to dislike.

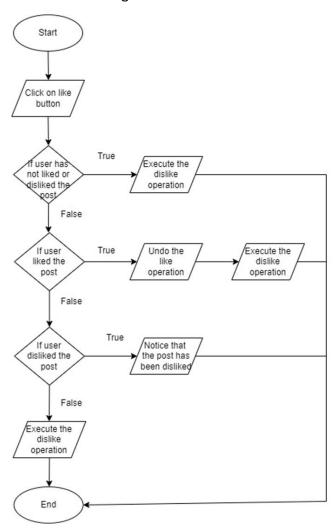


Figure 57: Flowchart of disliking idea

Flowchart for posting idea

The employee must attach a word or pdf file before selecting a date while utilizing the "updating ideas" feature. A failure message will show up if the date they select has already passed. If the staff member decides to publish anonymously or using their current name, the idea will then be added to the database; otherwise, they won't be able to.

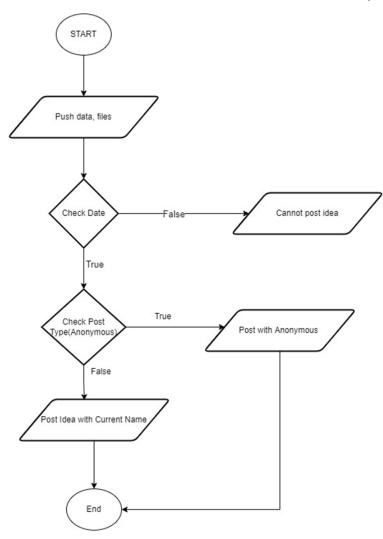


Figure 58: Flowchart for posting idea

Flowchart for comment

The employee must enter a comment into the box before using the "comment" function. The comment will be published unless the staff member chooses to post anonymously or using their real name.

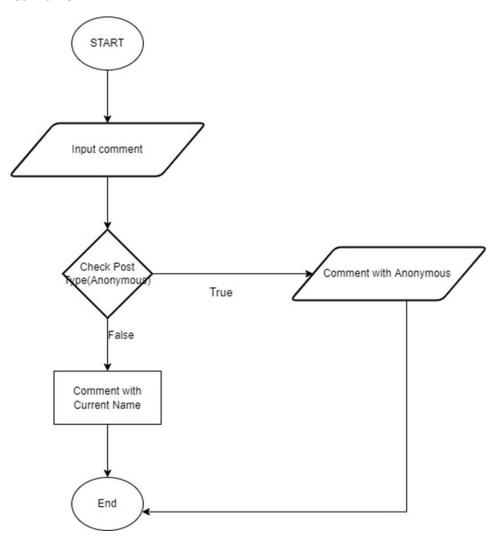


Figure 59: Flowchart for comment

d) Structure of front end files

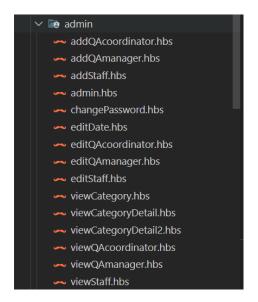


Figure 60: Admin

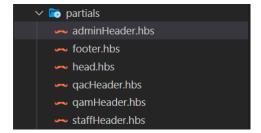


Figure 61: Partials

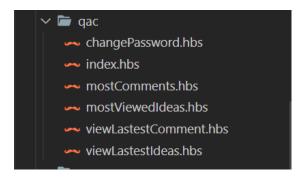


Figure 62: QAC

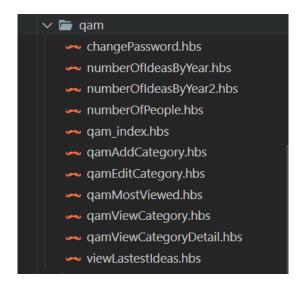


Figure 63: QAM

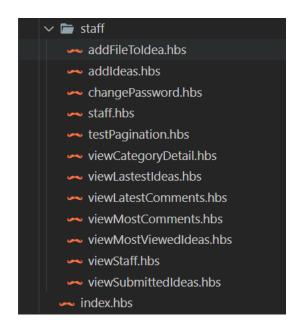


Figure 64: Staff

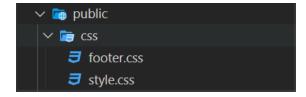


Figure 65: Css

2. Reflection on my own performance

As a front-end team member in an agile project, I played a critical role in creating flowcharts, sitemaps, and wireframes to visualize the system and ensure that all team members were aligned with project goals. My attention to detail and willingness to make changes contributed to a seamless user experience and a final product that met the client's needs. To improve, I plan to develop my agile methodology skills and communication with team members and stakeholders. Overall, my dedication and high-quality work were essential to the project's success, and I aim to continue improving my skills and adaptability in future projects.

3. Lessons learnt

Some potential lessons learned from the project could include:

- Collaboration and communication are key to success in an agile team. It's important to have open lines of communication and regular check-ins to ensure that everyone is on the same page and working towards the same goals.
- Clear visualization of the system through flowcharts, sitemaps, and wireframes can help ensure that everyone has a shared understanding of the project's objectives and goals.
- Attention to detail is crucial, especially in the front-end development phase, to ensure that the final product is functional and aesthetically pleasing.
- The ability to adapt quickly to changes in project requirements is essential in an agile team, and being willing to make changes as needed can help ensure that the project stays on track and meets the client's needs.