

Group Report

---COMP1640 - Enterprise Web Software Development---

Subject Code: COMP1640

Subject Title: Enterprise Web Software Development

Team Name: Bee Magazine

Submission Date: dd/mm/yyyy

Team Information

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1. Introduction about the project

In this project, we will implement a web application to collect information from users to improve the system of a university. The system includes hierarchical roles: Administrator, Quality Assurance Manager, Coordinator, and Staff. Administrators can manage all systems. The quality assurance manager manages the categories. The coordinator will cover the staff management department. They will manage employee ideas and receive ideas via email from employees in each department. Employees of each department will give ideas or comments, and available ideas.

2. Group Information summary

Team Name		TeamName
Group Repository		
Group Board URL		
Deployment URL		
Front End Tech		Javascript,
Back End Tech		.NET/.NET Core
Database Tech		MySQL
Screen Cast URL		Jira (gắn link)
3rd party services		Cloudinary / Google Login / etc.
IDE		Visual Studio / Visual Studio Code / Jetbrains / etc.

3. Team Members information

FULL NAME	ROLE	RESPONSIBILITIES
Tran Dieu Thao	Developer, Scrum Master	<ul style="list-style-type: none">• Review Front-end code for other Front-End Developers• Responsible for creating Database• Manage the Scrum task board, evaluate scrum team members• Responsible for implementing Full-stack for the Marketing Manager role
Vo Nguyen Hoang Oanh	Product Owner	<ul style="list-style-type: none">• Responsible for managing Jira and the work progress of each team member

		<ul style="list-style-type: none"> • Complete the report
Le Huyen Bao Trang	Developer	<ul style="list-style-type: none"> • Responsible for implementing Full-stack for the Admin role
Nguyen Tan Khoa	Developer	<ul style="list-style-type: none"> • Responsible for implementing Full-stack for the Student role
Nguyen Xuan Truong	UI/UX Designer, Frontend	<ul style="list-style-type: none"> • Take charge in Front-End implementation • Take charge in website design
Nguyen Manh Ngoc Khanh	Developer	<ul style="list-style-type: none"> • Responsible for implementing Full-stack for the Marketing Coordinator role
Tran Ngoc Long	Developer	<ul style="list-style-type: none"> • Responsible for implementing Full-stack for the Marketing Coordinator role

4. Technologies evaluation

4.1. System architecture diagram

In our project, the following methods and tools have been used in this project to ensure its optimal development.

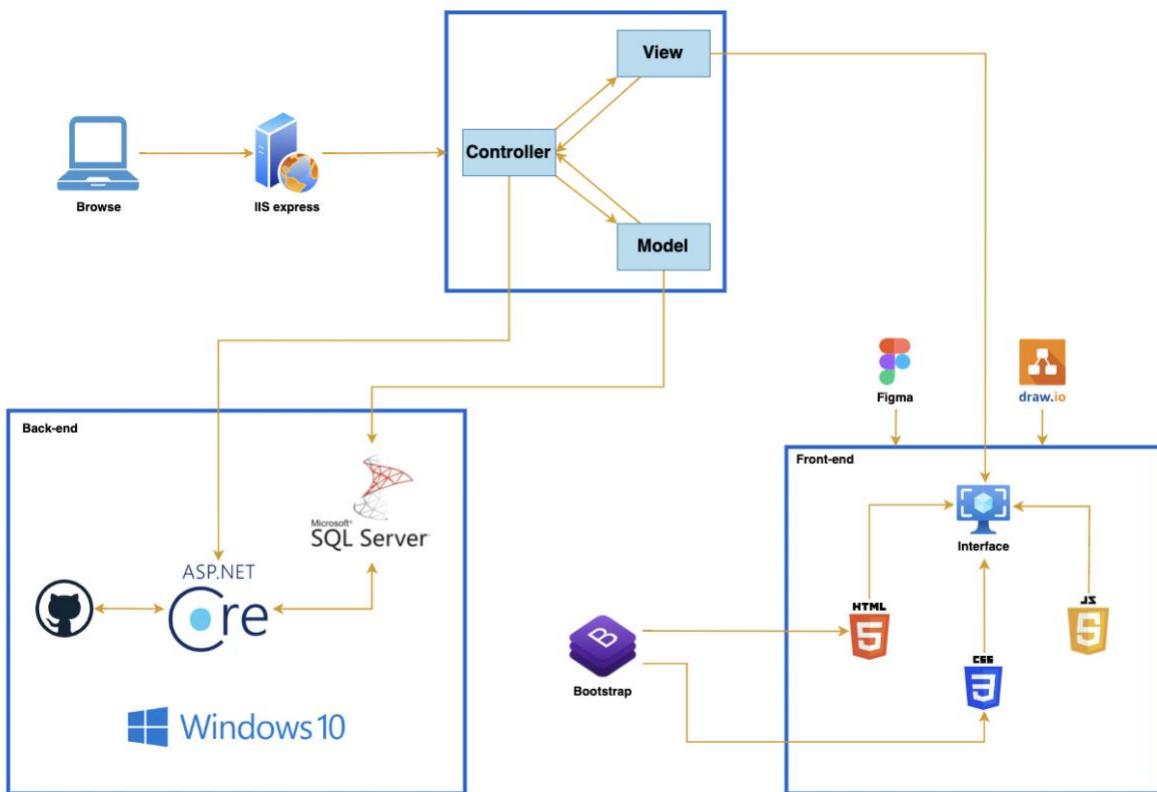


Figure 1: System architecture diagram.

We have constructed a system architectural system before putting each tool and method's specifics into practice. This makes it easier for every team member to get the broadest picture of our project system. In addition, we'll observe the tools available to the system and how they work together.

4.2. Tools

4.2.1. GitHub



Figure 2: GitHub¹

GitHub is now widely accepted by the software development community as an essential means of organizing software projects. GitHub is a developer-specific social network, code repository, and project management tool. Programmers can copy the source code from the repository. Anyone can create an account and set up their repository to work on this code repository server service. We discovered that using GitHub increases our productivity and enhances our workflow. GitHub gave us the ability to view other members' contributions and commitments during our research and support the creative process. The idea is that the project manager can divide the work into multiple branches to progress it, but to have a finished product, all of the branches must finally merge into the Master branch (Alexey , et al., 28 February 2015).

4.2.2. Diagram.io

¹ <https://foundations.projectpythia.org/foundations/github/what-is-github.html>

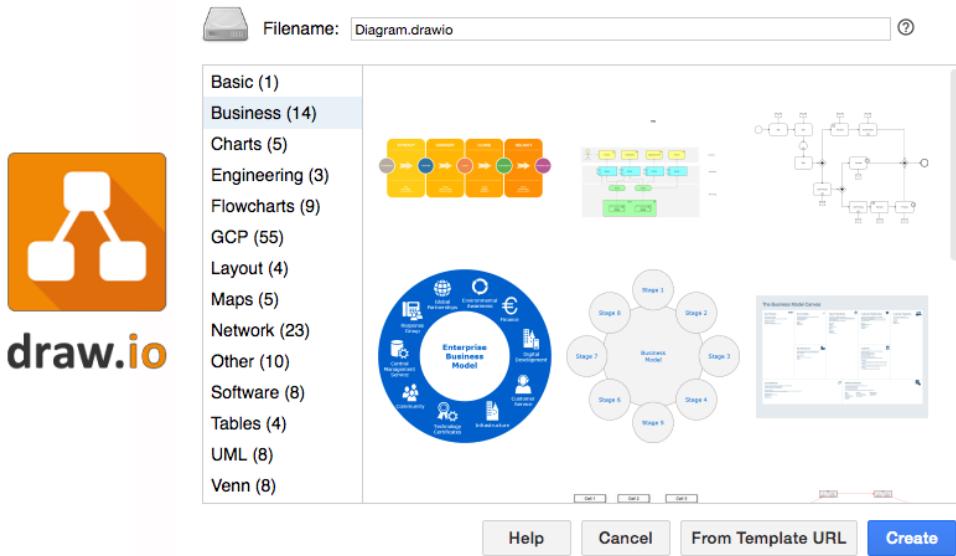


Figure 3: Diagram.io²

The software Draw.io is regarded as a simulation tool for programmers. We first used the website dbdiagram.io to design the database so that we could begin building the system before beginning to develop the database. The relationship between fields and tables may therefore be shown, strengthening the coherence and security of the system.

4.2.3. Figma



Figure 4: Figma³

Figma is a graphics editing and prototyping tool. You can design anything with Figma, including graphic artwork and user interfaces for websites. One of its best features is the companion app "The Figma Mirror," which is available for iOS and Android and allows users to view Figma prototypes on their phones in real-time. Therefore, we chose Figma to simulate how users interact. In addition, developers can also use the Live device preview

² <https://www.geekmaispasque.com/2019/06/draw-io-outil-gratuit-creer-des-diagrammes-en-ligne/>

³ https://uniceask.life/product_details/47402506.html

feature to view design simulations on mobile phones or can edit the frame size to see design compatibility on different device formats.

4.3. Front End technology stack

4.3.1. Bootstrap



Figure 5: Bootstrap⁴

Bootstrap is one of the most widely used CSS frameworks worldwide, Bootstrap gained notoriety right away because of its responsive design. Additionally, it was the first framework to prioritize mobile devices. It is not necessary to have a different design for mobile viewing when using Bootstrap. All you have to do is add the required classes, and the website will adjust to fit the device's screen size. With the introduction of the grid in Bootstrap, the amount of code that developers had to create was drastically reduced (TIm, 08 September 2011).

⁴ <https://devpress.csdn.net/react/62f42233c6770329307f9716.html>

4.3.2. JavaScript



Figure 6: JavaScript⁵

Programming languages like JavaScript are widely used and enable the implementation of sophisticated functionality on websites. When a page performs a dynamic action, including displaying interactive maps, video boxes, two- and three-dimensional animated visuals, or periodic content updates, it can be activated. JavaScript was selected by my team due to its exceptional characteristics. Additionally, JavaScript aids in the development of sophisticated websites that facilitate the processing and searching of complex data. My team's developers can employ JavaScript to increase readability and functionality as well as to improve user-website interaction (Sirmon , et al., 2009).

⁵ <https://www.oxfordwebstudio.com/en/did-you-know/what-is-javascript>

4.3.3. HTML



Figure 7: HTML⁶

The functions of HTML assist users in structuring and formatting text paragraphs, tables, photos, links, and many other elements that make up a website or application. Generally speaking, HTML formats and arranges web pages in a manner akin to that of Microsoft Word for text formatting. For this project, HTML, CSS, and JavaScript served as a strong foundation for web development, enabling the creation of stunning user interfaces and engaging interactive elements.

4.3.4. CSS



Figure 8: CSS⁷

CSS (Cascading Style Sheets) is a design language used to describe the presentation and formatting of a document written in HTML or XML (and XML-based languages such as SVG). CSS allows web developers to control the

⁶ <https://ayltoninacio.com.br/blog/o-que-e-html>

⁷ <https://www.oxfordwebstudio.com/da-li-znate/sta-je-css.html>

colors, fonts, spacing, size, and many other visual elements of a website. First introduced in 1996, CSS has become an essential part of web technology and is one of the three "core languages" every web developer needs to master, along with HTML and JavaScript. Besides, CSS allows separation between content (HTML) and presentation style (CSS). This makes HTML code cleaner and easier to maintain and makes designing and changing website design simpler. CSS improves website accessibility by providing methods to control how content is presented on different devices, including computer screens, mobile phones, tablets, etc (Eric , 1 August 2006).

4.4. Back End Programming

4.4.1. C#



Figure 9: C# (Visual Studio)⁸

C# (C sharp) is a general-purpose, object-oriented programming language, developed by Microsoft as part of the .NET Framework platform. First launched in 2000, C# was designed to provide a modern approach to software development, combining the ease of use of Java and C++ with a number of innovations and new features. C# is widely used in developing Windows applications, web applications through ASP.NET, mobile applications (such as through Xamarin), games (using Unity), and many other types of applications. C# benefits my team's developers when working on projects as used in the .NET Framework, a powerful software development platform that provides a large library of functions and APIs that help speed up the process of Software Development. C# is strongly supported by Microsoft as well as a large and active developer community. This ensures that developers can easily find documentation, tools, and libraries to support their development process (Jesse, 2005).

⁸ <https://web20.blc.edu.ba/?u=the-desktop-app-and-console-project-in-c-sharp-uu-9NxJKqSv>

3.4.2. ASP.Net Core



Figure 10: ASP.Net Core⁹

ASP.NET Core is an open source, cross-platform framework for web development, developed by Microsoft. It is a successor and extension of ASP.NET, supporting the development of web applications, APIs, and microservices. ASP.NET Core is designed to provide a modern, flexible, and high-performance approach to building web applications. Here are some key highlights and benefits that ASP.NET Core brings to developers when working on projects. ASP.NET Core supports cross-platform, allowing application development and deployment on many different operating systems. Additionally, this Framework provides high flexibility in configuration and extensibility, allowing developers to customize applications according to specific needs. Components can be added or removed easily, helping to optimize memory and performance. Thanks to these extremely outstanding features, we chose it to accompany this project (Andrew, 2010).

⁹ <https://www.oditeksolutions.com/asp-net-mvc-core-for-developing-modern-web-applications/>

4.5. Operating System

4.5.1. Windows

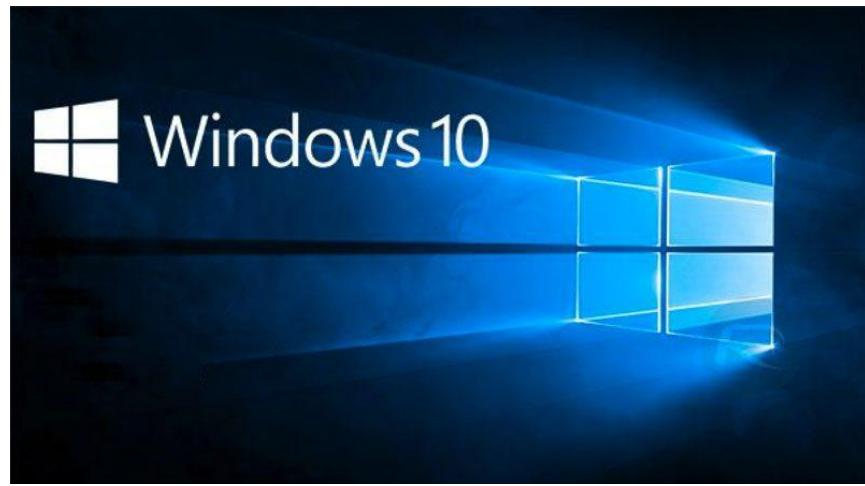


Figure 11: Windows 10

The operating system based on a graphical user interface that Microsoft created and distributed is known as Microsoft Windows (or just Windows). It consists of multiple operating system families, each catering to a certain segment of the computer industry.

4.5.2. Microsoft Internet Information Services (IIS)



Figure 12: Microsoft Internet Information Services (IIS)¹⁰

¹⁰ <https://www.elegantthemes.com/blog/wordpress/microsoft-iis>

The acronym IIS stands for Internet Information Services.

IIS comes packaged with some versions of Windows. Microsoft Internet Information Services (Internet Information Services) are services for Windows-based servers that supply and distribute information over a network. They include a variety of services such as Web Server, FTP Server, and so on.

It can be used to publish Web page content to the Internet/intranet via the "Hypertext Transport Protocol" (HTTP). So, once you've completed developing your Web pages, if you want to publish them online for everyone to see, you'll need to use a Web Server, namely IIS. Otherwise, your website can only be seen on your machine or via file sharing, just like any other file on the local network.

4.6. Database

❖ SQL Server



Figure 13: SQL Server¹¹

SQL Server is a database management system (RDBMS) developed by Microsoft. It is designed to store, retrieve, and manage data in application software, especially in enterprise environments. SQL Server supports many different tools and services to help develop, exploit, and manage application databases effectively. The main benefits we realized that SQL Server brings to my team's developers when working on this project are that SQL Server provides powerful tools for data integration, including SQL Server Integration Services (SSIS), which makes it easier to extract, transform, and load (ETL) data from multiple sources. Besides, SQL Server supports a wide range of programming languages and technologies, including .NET, PHP, Java, Ruby, and more, making application development flexible and easy to integrate with other systems.

¹¹ <https://tribes.agency/technologies/microsoft-sql-server/>

5. Agile Documentation and Artifacts

5.1. Product Backlog

The screenshot shows the Jira Software interface for the 'COMP1640 - Web Enterprise' project. The main view is titled 'Backlog' and displays 10 issues. Each issue is represented by a row with columns for the issue key, summary, reporter, priority, status, resolution, created date, updated date, and due date. The issues are categorized under 'Backlog' and include tasks such as 'View all user accounts', 'Edit user account', and 'Marketing Manager dashboard'. The sidebar on the left provides navigation links for planning, backlog, board, reports, and issues.

Figure 14: Product Backlog

5.2. Daily Meetings

5.2.1. Sprint 1

a. Sprint Backlog

Jira										
Displaying 19 issues at 17/Apr/24 11:42 PM.										
Issue Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated	Due date
Story	CMP-77	Navbar, Footer	Truong Xuan	Vo Nguyen Hoang Oanh	Medium	Done	Done	04/Mar/24 3:01 PM	07/Mar/24 1:52 PM	
Story	CMP-75	Show confirmation modal when delete	Truong Xuan	Vo Nguyen Hoang Oanh	Medium	Done	Done	04/Mar/24 1:14 AM	17/Mar/24 3:49 PM	
Story	CMP-71	Login page, logout	Truong Xuan	Vo Nguyen Hoang Oanh	Medium	Done	Done	04/Mar/24 1:13 AM	19/Mar/24 1:03 PM	
Story	CMP-65	Submit article for a specific magazine	Tấn Khoa Nguyễn	Vo Nguyen Hoang Oanh	Medium	Done	Done	04/Mar/24 1:02 AM	17/Mar/24 9:30 PM	
Story	CMP-59	View content of a specific article	Long Tran	Vo Nguyen Hoang Oanh	Medium	Done	Done	04/Mar/24 12:58 AM	19/Mar/24 1:03 PM	
Story	CMP-55	View all articles in faculty	Khánh Nguyễn	Vo Nguyen Hoang Oanh	Medium	Done	Done	04/Mar/24 12:53 AM	17/Mar/24 3:48 PM	
Story	CMP-53	View all magazines in faculty	Long Tran	Vo Nguyen Hoang Oanh	Medium	Done	Done	04/Mar/24 12:18 AM	17/Mar/24 3:48 PM	
Story	CMP-34	Delete semester	Thảo Trần Diệu	Vo Nguyen Hoang Oanh	Medium	Done	Done	02/Mar/24 11:37 AM	19/Mar/24 1:03 PM	
Story	CMP-32	View all semesters	Thảo Trần Diệu	Vo Nguyen Hoang Oanh	Medium	Done	Done	02/Mar/24 11:37 AM	18/Mar/24 4:03 PM	
Story	CMP-31	Create semester	Thảo Trần Diệu	Vo Nguyen Hoang Oanh	Medium	Done	Done	02/Mar/24 11:36 AM	18/Mar/24 4:03 PM	
Story	CMP-24	Delete faculty	Bảo Trang L.H	Vo Nguyen Hoang Oanh	Medium	Done	Done	02/Mar/24 11:33 AM	19/Mar/24 1:03 PM	
Story	CMP-23	Edit faculty	Bảo Trang L.H	Vo Nguyen Hoang Oanh	Medium	Done	Done	02/Mar/24 11:33 AM	17/Mar/24 3:48 PM	
Story	CMP-21	Create faculty	Bảo Trang L.H	Vo Nguyen Hoang Oanh	Medium	Done	Done	02/Mar/24 11:33 AM	17/Mar/24 3:48 PM	
Task	CMP-12	Define DbSet and initialize migration	Thảo Trần Diệu	Thảo Trần Diệu	Medium	Done	Done	01/Mar/24 11:20 PM	07/Mar/24 12:37 PM	
Task	CMP-11	Create models	Thảo Trần Diệu	Thảo Trần Diệu	Medium	Done	Done	01/Mar/24 11:11 PM	07/Mar/24 12:37 PM	
Task	CMP-8	Group Rules	Vo Nguyen Hoang Oanh	Vo Nguyen Hoang Oanh	Medium	Done	Done	01/Mar/24 2:43 PM	06/Mar/24 1:20 PM	
Story	CMP-4	Setup Identity Framework	Thảo Trần Diệu	Vo Nguyen Hoang Oanh	Medium	Done	Done	01/Mar/24 2:40 PM	06/Mar/24 1:18 PM	
Task	CMP-3	Setup Github	Thảo Trần Diệu	Vo Nguyen Hoang Oanh	Medium	Done	Done	01/Mar/24 2:25 PM	06/Mar/24 1:18 PM	
Task	CMP-2	Design ERD	Vo Nguyen Hoang Oanh	Vo Nguyen Hoang Oanh	Medium	Done	Done	01/Mar/24 2:22 PM	05/Mar/24 10:55 AM	

b. Chart

◆ BurnDown Chart

Date - March 5th, 2024 - March 19th, 2024

Sprint goal - Finishing some basic features for roles in the website.

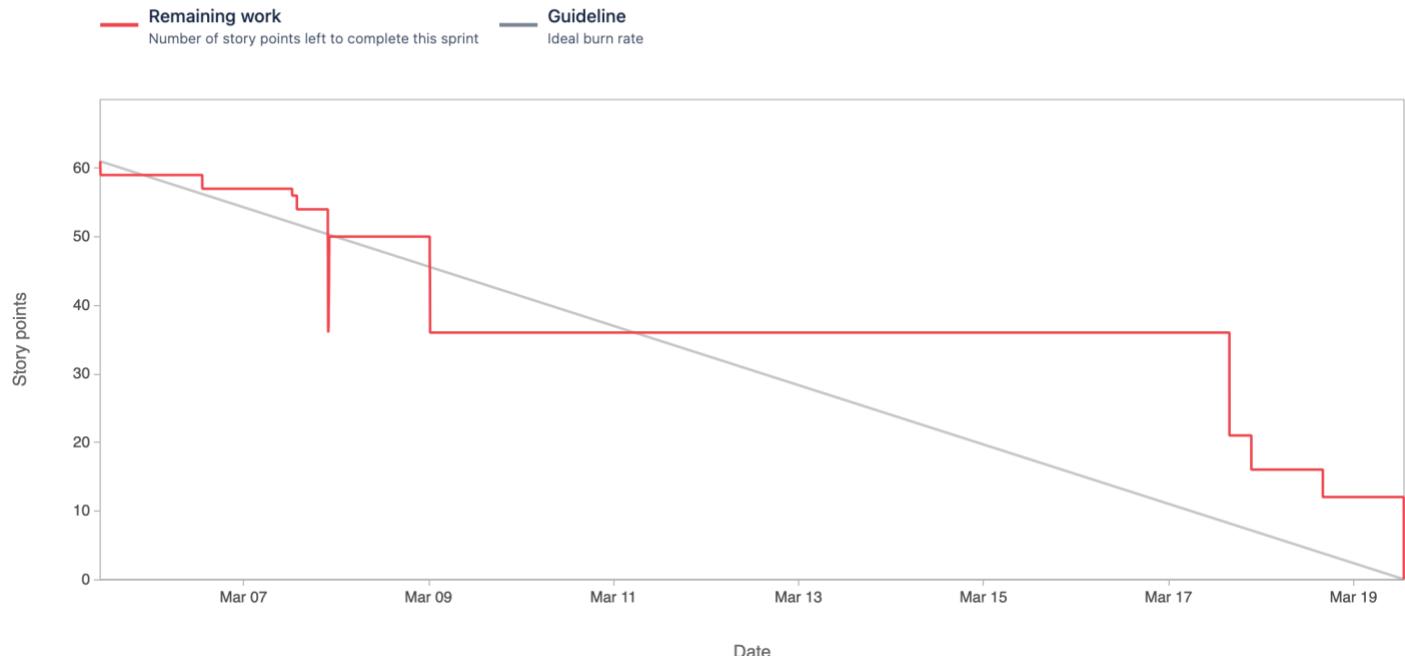


Figure 15: BurnDown Chart of sprint 1.

Based on the chart, here are some comments and analysis from our team:

Start the Sprint with a planned amount of work (60 story points). The Sprint goal that we always aim for is to complete basic features for roles on the website. During the early days of the sprint, work gradually decreases and stays relatively close to the ideal guideline, which shows that the team is stable and on track. However, after starting the sprint, half of my team members had unexpected schedules from the school, which forced us to release the task and at the same time increase the number of points to keep the project running on schedule. After that, we reported the situation to Mr. Vinh - the instructor, and received advice, we returned the points to the same and only reduced the number of tasks. Therefore, our chart had problems from day 7 to day 9. From day 9 to day 17 there was no decrease in story points because no work was marked as completed during that period. Because half of the members had a field trip from school. We will try to fix that near the end of the sprint, there is a significant decrease in the amount of work remaining, which may indicate that the team has accelerated and completed more work. At the end of the Sprint, the chart ends with 0 story points remaining, meaning all the work planned for this sprint by our team has been completed.

❖ BurnUp Chart

Date - March 5th, 2024 - March 19th, 2024

Sprint goal - Finishing some basic features for roles in the website.

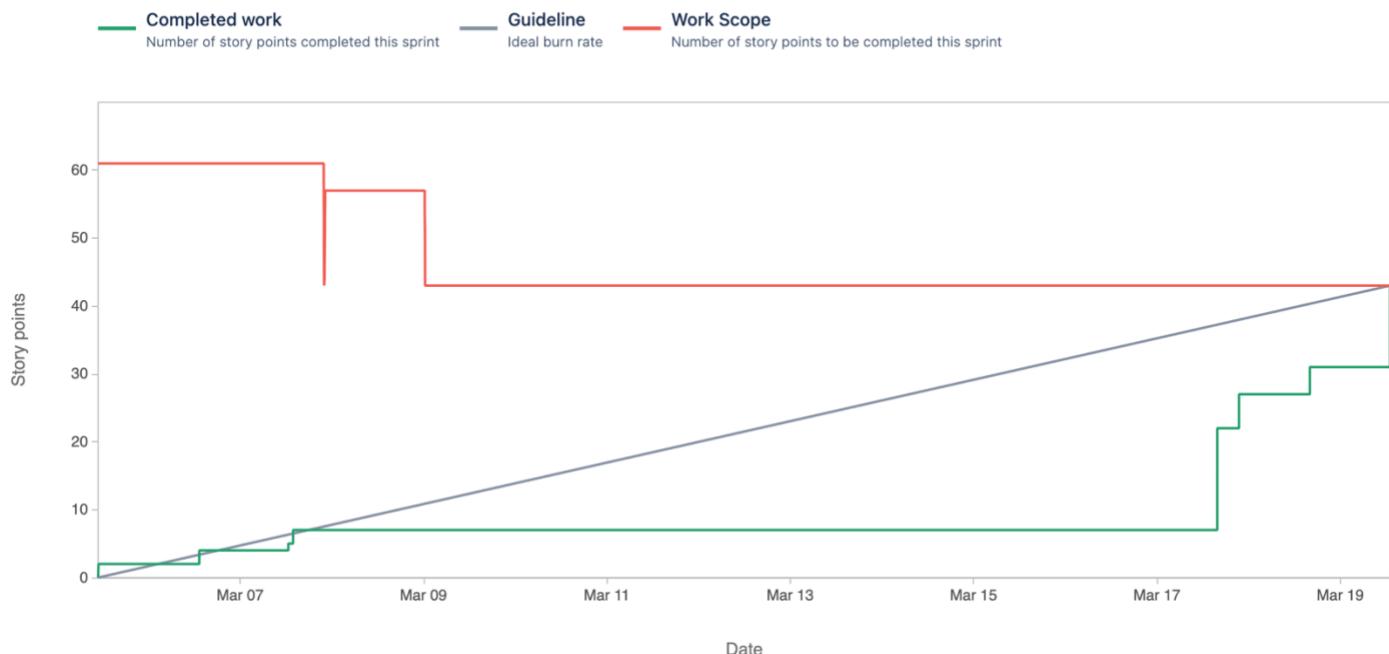


Figure 16: BurnUp Chart of sprint 1.

Based on the chart, here are some comments and analysis from our team:

The blue line shows the number of story points completed during the sprint. It seemed like my team got the job done right from the start and made steady progress over the following days. Next, the gray line represents the ideal speed to complete work in a sprint. It starts from the total number of story points and decreases each day until the end of the sprint. Finally, the green line shows the total number of story points that need to be completed. This line is horizontal at about 60 points and remains unchanged throughout the sprint, indicating no change in the scope of work since the start of the sprint. The initial period of work completed tends to be in line with ideal guidelines. This shows that my team's project is off to a good start and progressing in the right direction. Around the middle of the sprint, there was a breakthrough with a large amount of work completed in a short period of time, because our team members had a sudden schedule, and pushed the work progress faster to ensure the deadline. At the end of the sprint, the completed work continues according to the instructions and achieves the scope of work planned before the end of the sprint.

c. Sprint Review



Location: Library room - Greenwich University, Da Nang campus



Date: March 5th, 2024



Time: 9:30AM - 10:50 AM

Meeting Minutes

Participants (7/7): Tran Dieu Thao (Scrum Master); Vo Nguyen Hoang Oanh (Product Owner); Le Huyen Bao Trang; Nguyen Tan Khoa; Nguyen Xuan Truong; Nguyen Manh Ngoc Khanh; Tran Ngoc Long

Meeting type: Sprint Planning.

Minutes taker: Vo Nguyen Hoang Oanh

Objective: The team members will review its backlog and decides what items to priorities for the sprint project

Topics	Participants	Time
Find information about the exercise's specifications and prerequisites.	Scrum team	5 minutes
Decide on each member's responsibilities.	Scrum team	15 minutes
Product backlog prioritization	Scrum Master	15 minutes
Selecting things from the Product Backlog for the Sprint 1 Backlog	Development team	15 minutes
Determine the team's capability.	Scrum team	15 minutes
Discuss any new information that may impact the plan	Scrum team	10 minutes
Members' Q&A session and meeting conclusion	Scrum team	15 minutes

Notes:

- This is the first meeting for discussion before we begin the project's implementation. We will follow the Scrum principles and methodologies and apply the Agile Scrum Method to a huge project.
- The Product backlog was processed early by the Scrum Master and Product Owner. We made the decision to move forward as quickly as feasible for the project to be finished on time because the implementation period is only two months.
- We will meticulously complete the preparatory tasks and investigate the most meticulous approach to uphold the Scrum tenets.
- To manage issues as they arise and provide a prompt resolution, all participants will estimate the project's implementation time and identify any concerns beforehand.

Tools: Visual Studio 2022, GitHub, Jira

Languages: JavaScript, CSS, HTML, asp.net

Figure 17: Sprint 1 review.

d. Sprint Retrospective

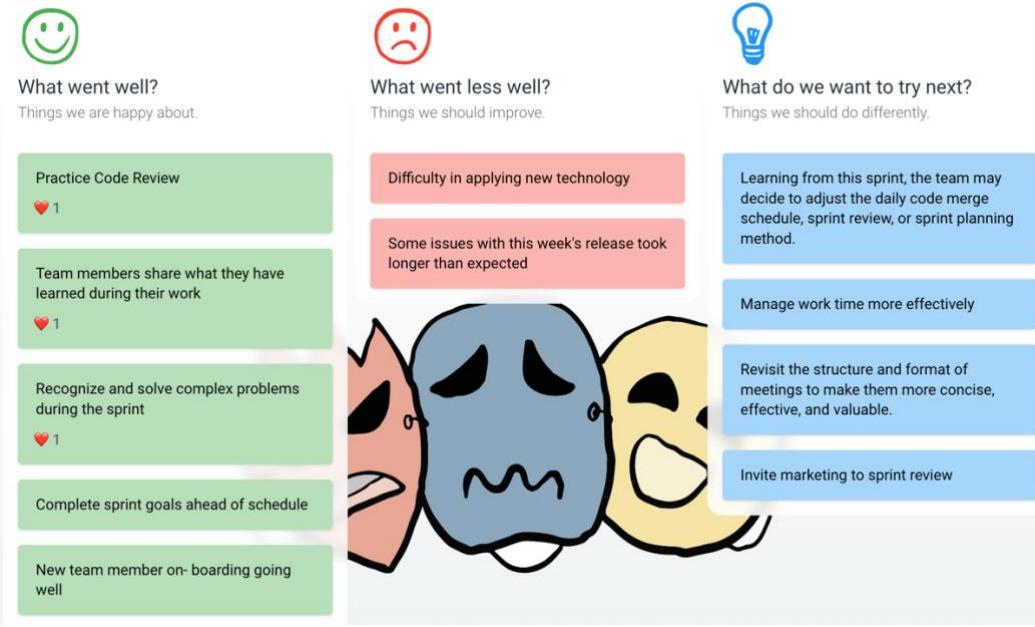


Figure 18: Sprint 1 retrospective.

5.2.2. Sprint 2

a. Sprint Backlog

Projects / COMP1640 - Web Enterprise

Backlog

PLANNING

Timeline

Backlog

Board

Reports

Issues

+ Add view

DEVELOPMENT

Code

Security

Releases

OPERATIONS

Deployments

Drilldown names

You're in a team-managed project

Learn more

Sprint 2 19 Mar ~ 2 Apr (18 issues)

Issue Type	Description	Assignee	Status	Priority
GMP-15	Delete user account	MANAGE USER ACCO...	DONE	3
GMP-10	Create user account	MANAGE USER ACCO...	DONE	5
GMP-58	Confirm article	MANAGE SUBMITTED ...	DONE	5
GMP-61	View all selected articles	MANAGE SUBMITTED ...	DONE	5
GMP-68	Update personal article	MANAGE PERSONAL ...	DONE	3
GMP-33	Edit semester information	MANAGE SEMESTERS	DONE	2
GMP-37	Create magazine	MANAGE MAGAZINES	DONE	3
GMP-38	View all magazines by faculty	MANAGE MAGAZINES	DONE	3
GMP-39	Edit magazine	MANAGE MAGAZINES	DONE	2
GMP-40	Delete magazine	MANAGE MAGAZINES	DONE	2
GMP-67	View personal article	MANAGE PERSONAL ...	DONE	3
GMP-72	View all selected articles for guest	DONE	DONE	5
GMP-78	Sidebar	DONE	DONE	5

Figure 19: Sprint 2 backlog.

The screenshot shows the Jira Software interface for the project 'COMP1640 - Web Enterprise'. The left sidebar includes sections for Planning (Timeline, Backlog, Board, Reports, Issues, Add view), Development (Code, Security, Releases), and Operations (Deployments). The main area displays the 'Backlog' with 17 items. Each item includes a summary, assignee, status (e.g., DONE, IN PROGRESS), priority (e.g., TD, KN), and a link to the issue details.

Issue Summary	Assignee	Status	Priority
GMP-33 Edit semester information	MANAGE SEMESTERS	DONE	TD
GMP-37 Create magazine	MANAGE MAGAZINES	DONE	TD
GMP-38 View all magazines by faculty	MANAGE MAGAZINES	DONE	TD
GMP-39 Edit magazine	MANAGE MAGAZINES	DONE	TD
GMP-40 Delete magazine	MANAGE MAGAZINES	DONE	TD
GMP-67 View personal article	MANAGE PERSONAL ...	DONE	TN
GMP-72 View all selected articles for guest		DONE	
GMP-78 Sidebar		DONE	
GMP-22 View list of faculties	MANAGE FACULTIES	DONE	TD
GMP-79 Notification pop up		DONE	
GMP-76 Make and view comment		DONE	LT
GMP-69 Delete personal article	MANAGE PERSONAL ...	DONE	TN
GMP-70 Receive email when coordinator comment or reject the article	MANAGE PERSONAL ...	DONE	LT

Figure 20: Sprint 2 backlog (tt)

b. Chart

◇ BurnDown Chart

Date - March 19th, 2024 - April 2nd, 2024

Sprint goal - Finishing some advanced features for the project

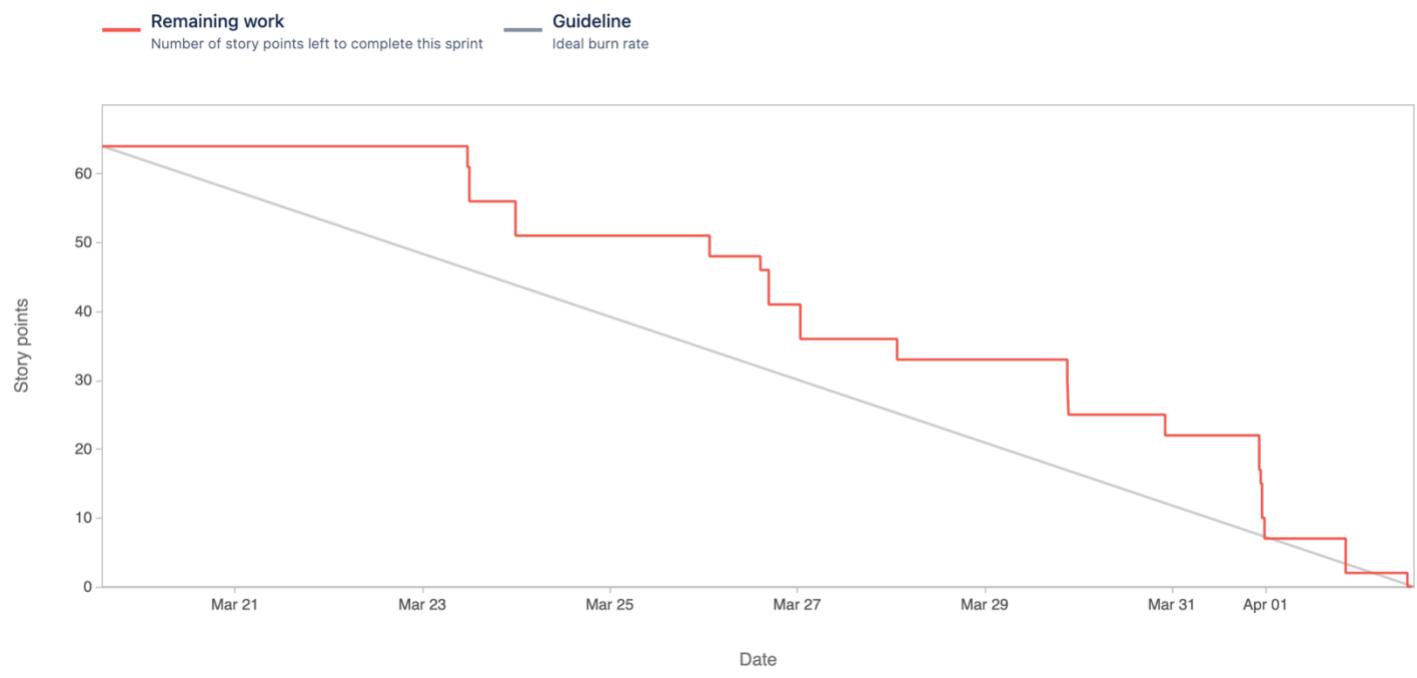


Figure 21: BurnDown Chart of sprint 2.

We started sprint 2 on March 19 and this sprint will run for 2 weeks. Start Sprint with about 60 story points. In the early days, there was a delay from the ideal guideline. However, this is not because we did not complete the work as expected, but because we did not know how to optimally use Jira to make the chart run better. The middle of the Sprint may see some

significant reduction in remaining work, indicating there is work to be completed. Progress is still running quite well. End of Sprint: Finally, my team completed all the planned work before the end of the sprint, with 0 story points remaining.

❖ BurnUp Chart

Date - March 19th, 2024 - April 2nd, 2024

Sprint goal - Finishing some advanced features for the project

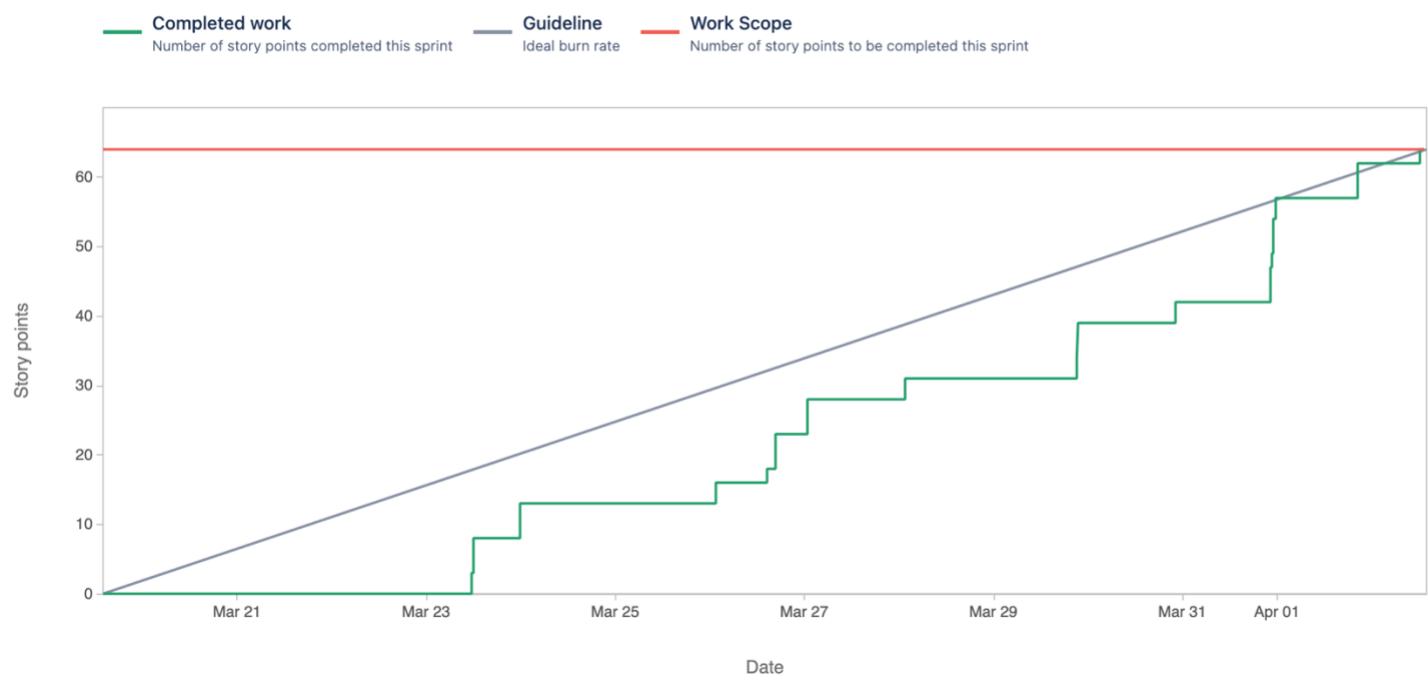


Figure 22: BurnUp Chart

Start the Sprint with about 60 story points. In the early days, the chart showed that no work had been completed, but because we were not yet proficient with Jira after being reminded and guided by the instructor, we learned from experience for the following tasks. Then mid-Sprint there is a spike in the amount of work completed on specific days, which indicates that my team may have completed major tasks or overcome important hurdles on those days. At the end of the sprint, it seemed like the team had caught up and even completed more than the planned scope of work, which showed that my team had not only completed the set goal but had also probably solved it. Added some unplanned work.

c. Sprint Review

 Location: Library room - Greenwich University, Da Nang campus
 Date: March 19th, 2024
 Time: 1:00 PM - 2:00 PM

Meeting Minutes

Participants (7/7): Tran Dieu Thao (Scrum Master); Vo Nguyen Hoang Oanh (Product Owner); Le Huyen Bao Trang; Nguyen Tan Khoa; Nguyen Xuan Truong; Nguyen Manh Ngoc Khanh; Tran Ngoc Long

Meeting type: Sprint Planning.

Minutes taker: Vo Nguyen Hoang Oanh

Objective: The team members will review its backlog and decides what items to priorities for the sprint project

Topics	Participants	Time
Make incomplete work a priority.	Scrum Master, Truong	5 minutes
Choose items from the product backlog for the Sprint 2 backlog.	Development team	15 minutes
Examine ability to delegate work to team members	Scrum Master	15 minutes
Enumerate all new information that could have an impact on system development.	Development team	15 minutes
Examine the problems and worries raised during the discussion.	Scrum team	15 minutes
Members' Q&A and meeting conclusion	Scrum team	10 minutes
Make incomplete work a priority.	Scrum team	15 minutes

Notes:

- This is the second execution plan for the project. Thao and Truong replaced and prioritized the backlog products when we were reminded of the project's primary objective.
- The backlog has been refined, and members of the improvement team are participating in the widgets they will create for this dash and estimating the time it will take to complete the task.
- We check every member's supplies and calculate crew mobility after anyone chooses their travel gear and agrees to anyone's mission. Quy suggests that he should have his own set of kinship topics for the duration of this article to shorten his running time, but he implies that this will not happen. Furthermore, the crew advised that there be no obstacles and that the journey be risk-free.
- The council's implementation plans are all decided upon by consensus in the manner of the group leader.
- Finally, hold a Q&A session with event attendees who want to help improve functionality and answer any remaining questions. The process then comes to an end, and the race begins

Figure 23: Sprint 2 review.

d. Sprint Retrospective



Figure 24: Sprint 2 retrospective.

5.2.3. Sprint 3

a. Sprint Backlog

Screenshot of the Jira Software interface showing the Sprint Backlog for Sprint 3 (2 Apr – 16 Apr).

Project: COMP1640 - Web Ent...

Backlog:

Epics: Sprint 3 (2 Apr – 16 Apr (11 issues))

Issues:

Issue Key	Description	Assignee	Status	Priority
GMP-13	View all user accounts	MANAGE USER ACCO...	DONE	TD
GMP-26	View personal information	PROFILE PAGE	DONE	LT
GMP-81	View content of selected article for guest		DONE	KN
GMP-74	Marketing Coordinator dashboard		DONE	TN
GMP-44	View all selected articles	SELECTED ARTICLES ...	DONE	TD
CMP-14	Edit user account	MANAGE USER ACCO...	IN PROGRESS	BL
CMP-60	Receive email when student submitted	MANAGE SUBMITTED ...	IN PROGRESS	TN
CMP-27	Update personal information	PROFILE PAGE	IN PROGRESS	LT
CMP-48	Download file .zip	SELECTED ARTICLES ...	TO DO	TD
CMP-49	View content of a specific selected article	SELECTED ARTICLES ...	TO DO	TD
CMP-73	Marketing Manager dashboard		TO DO	KN

Buttons: Insights, View settings, Complete sprint, More options

Figure 25: Sprint 3 backlog.

b. Chart

❖ BurnDown Chart

Sprint

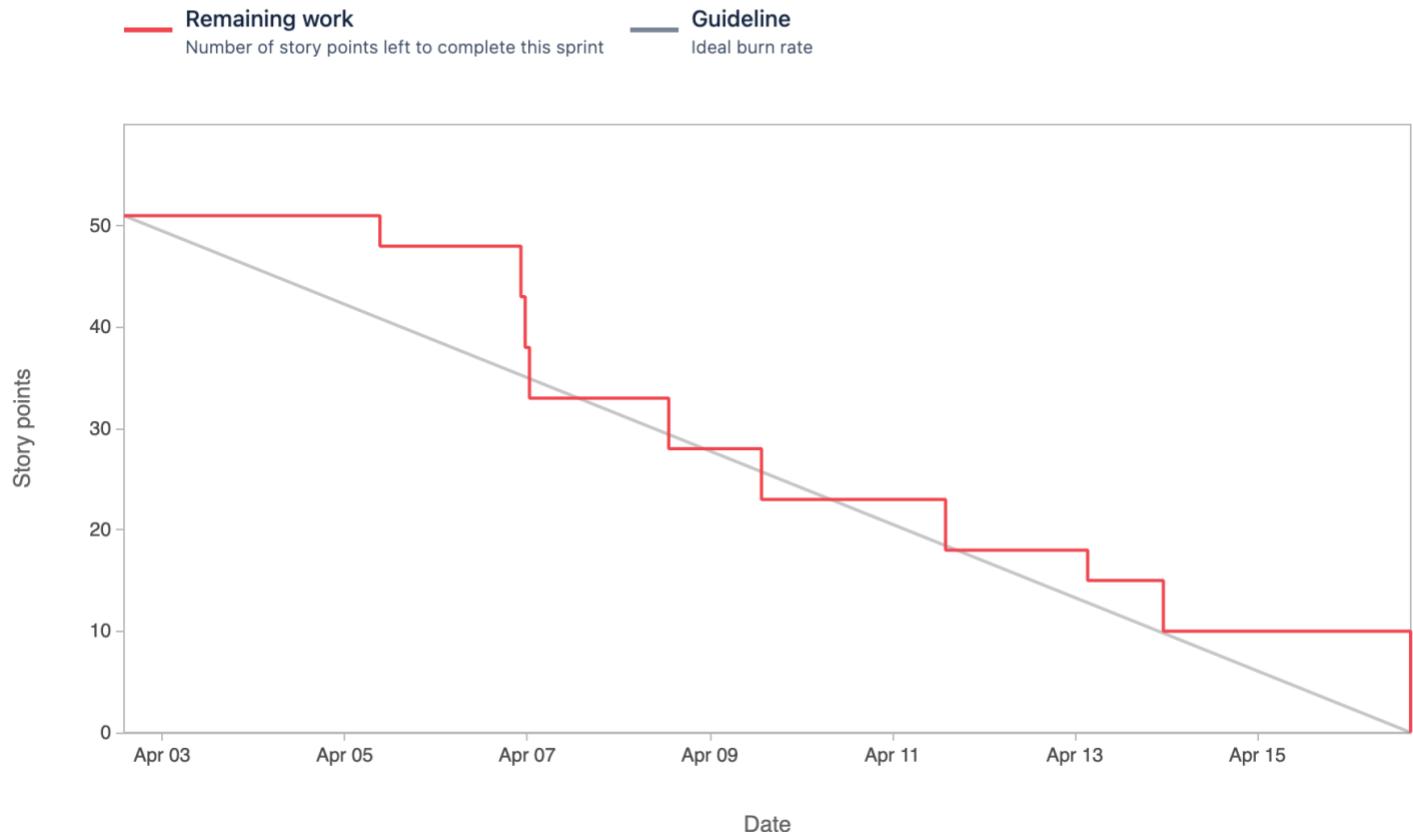
Sprint 3

Estimation field

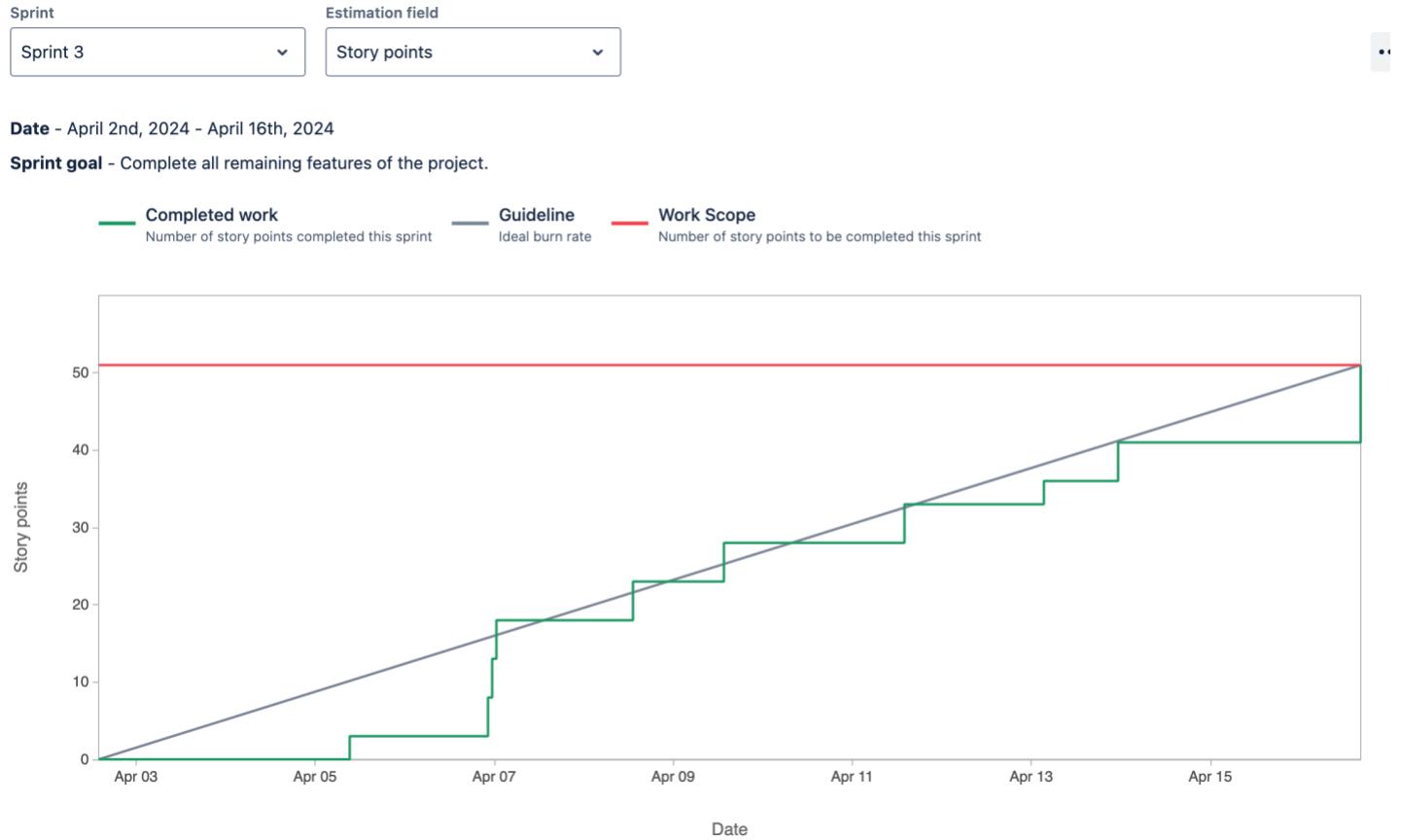
Story points

Date - April 2nd, 2024 - April 16th, 2024

Sprint goal - Complete all remaining features of the project.



❖ BurnUp Chart



c. Sprint Review

 Location: Library room - Greenwich University, Da Nang campus
 Date: April 2nd, 2024
 Time: 1:00 PM - 2:00 PM

Meeting Minutes

Participants (7/7): Tran Dieu Thao (Scrum Master); Vo Nguyen Hoang Oanh (Product Owner); Le Huyen Bao Trang; Nguyen Tan Khoa; Nguyen Xuan Truong; Nguyen Manh Ngoc Khanh; Tran Ngoc Long

Meeting type: Sprint Planning.

Minutes taker: Vo Nguyen Hoang Oanh

Objective: The team members will review its backlog and decides what items to priorities for the sprint project

Topics	Participants	Time
Make incomplete work a priority.		5 minutes
Select items from the product backlog for the Sprint 3 backlog.	Development team	15 minutes
Examine ability to delegate work to team members	Scrum Master	15 minutes
Enumerate all new information that could have an impact on system development.	Development team	15 minutes
Examine the problems and worries raised during the discussion.	Scrum team	15 minutes
Members' Q&A and meeting conclusion	Scrum team	10 minutes
Make incomplete work a priority.	Scrum team	15 minutes

Notes:

- This is the final implementation plan of the project. Thao and Truong replace and prioritize backlog products when we are reminded of the main goal of the project.
- We check each member's supplies and calculate the crew's mobility after anyone chooses the mobility device and agrees to anyone's mission.
- The council's implementation plans are decided according to the principle of consensus according to the group leader's method.
- Finally, host a Q&A session with event attendees who want to help improve functionality and answer any remaining questions. The process then ends and the race begins

Figure 26: Sprint 3 review.

d. Sprint Retrospective



What went well?
Things we are happy about.

- Members ensure progress in completing tasks before the deadline
- Members support each other in the final stages
- Continuously received good comments from Mr. Vinh - subject lecturer
- Complete the final stages well



What went less well?
Things we should improve.

- The final stages are quite difficult and numerous, so members do not have time to meet every day
- The final sprint has quite a lot of tasks



What do we want to try next?
Things we should do differently.



Figure 27: Sprint 3 retrospective.

6. Design Document

6.1 ERD

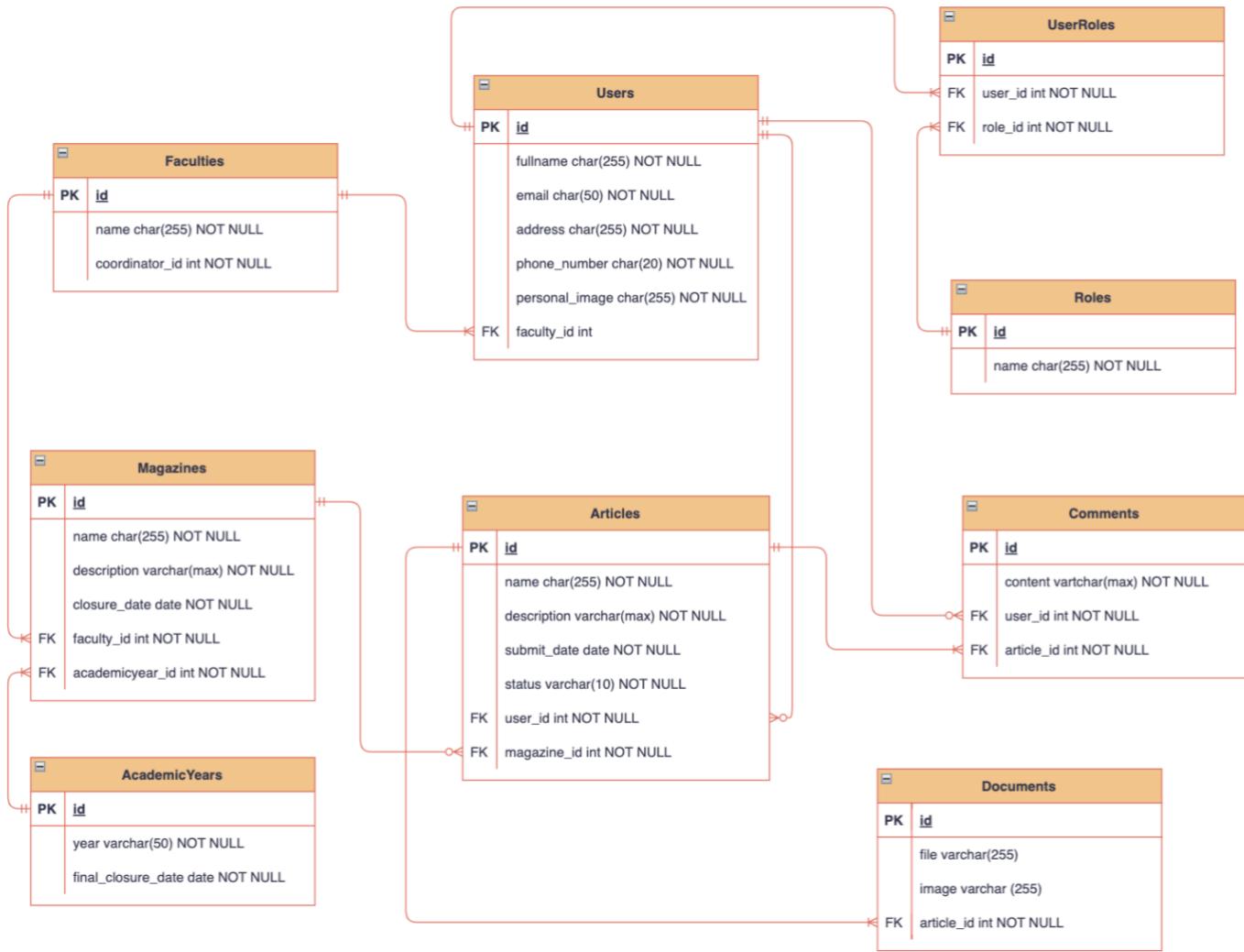


Figure 28: ERD - Entity Relationship Diagram

Before beginning the process of creating a complete website. We use tools to generate database relationship diagrams. It describes the relationships between the database's tables. Blocks are tables that contain fields (or columns) with their respective data types and constraints, such as "NOT NULL" indicating that the field cannot contain the value NULL. The association between tables is represented by connecting lines, which reflect the relationship between the "foreign key" (FK) and the "primary key." During the software development project, we discovered that this diagram primarily helps engineers visualize the database structure and decide how to organize data. Assists in examining data storage and management requirements, ensuring that they are met through appropriate data structures. Moreover, offering clear documentation of the database, helps new programmers understand the structure without reading the entire source code. Finally, serves as a basis for communication between development teams, helping everyone have the same understanding of data structures.

6.2.

6.2. Use Case

6.2.1. Use Case diagram for Guest

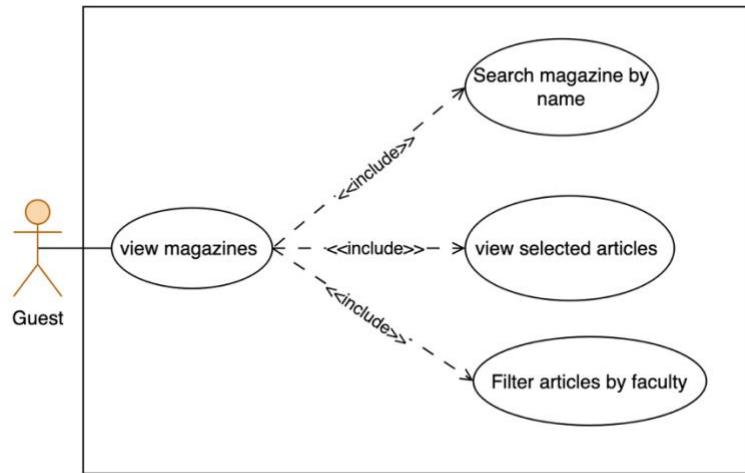


Figure 29: Use Case diagram for Guest.

This diagram shows the functional behaviors that the system provides and the user's (here "Guest") interactions with the system. The main actions a "Guest" can perform are:

- **view magazines:** Allows users to view a list of magazines.
- **View selected articles:** After viewing the magazine, users can view selected articles.
- **Search magazine by name:** Users can search for magazines by name.
- **Filter articles by faculty:** Can filter articles based on faculty or subject.

The dashed arrows with the <<include>> keyword indicate that the "view magazines" activity includes the "view selected articles", "Search magazine by name", and "Filter articles by faculty" activities as part of operating procedures. This means that when "Guests" view the magazines, they will also have the ability to do these accompanying activities. Diagrams provide an overview of how users interact with the system and help define the system's functional requirements from the user's perspective.

6.2.2. Use Case diagram for Admin

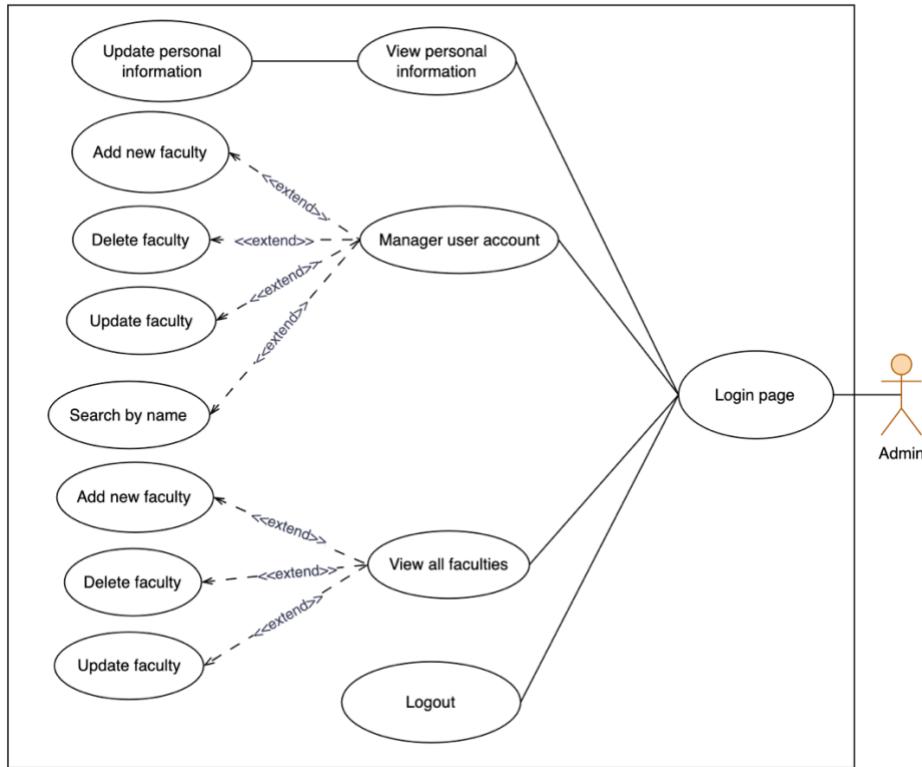


Figure 30: Use Case diagram for Admin.

The diagram describes the functions that "**Admin**" can perform after logging in to the "Login page" page:

- **View personal information**: View personal information.
- **Update personal information**: Update personal information.
- **Manager user account**: Manage user accounts, including functions:
 - **Add new faculty**: Add new faculty.
 - **Delete faculty**: Admin deletes the faculty.
 - **Update faculty**: Admin updates faculty information.
 - **Search by name**: Admin can search for faculty by name.
 - **View all faculties**: View a list of all faculties.
- **Logout**: Log out of the system.

The dashed arrows with the <<extends>> keyword indicate that the "*Add new faculty*", "*Delete faculty*", and "*Update faculty*" functions can be considered extensions of the "*Manager user account*" function. and "*View all faculties*". This means that these functions are optional and can be performed under certain conditions or in certain specific contexts.

The diagram provides an overview of the power and responsibilities of the administrator (Admin) in managing information in the system, helping analysts determine functional requirements from a system administration perspective.

6.2.3. Use Case diagram for Manager

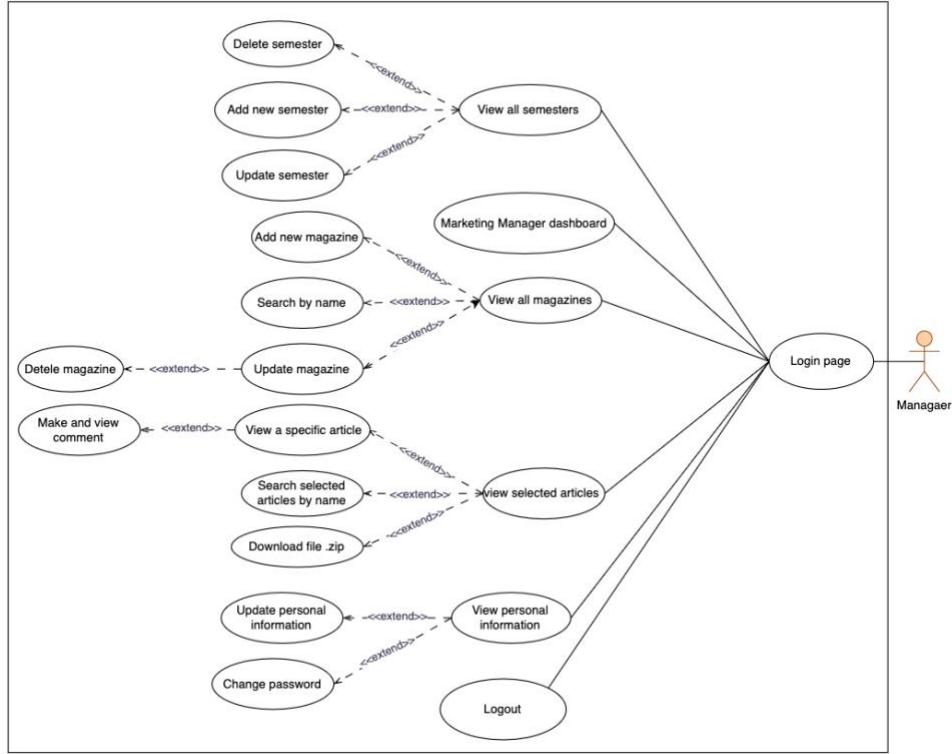


Figure 31: Use Case diagram for Manager.

This use case diagram describes the interactions that an "**Manager**" can have with the system after "*login page*". It describes some core functionality and optional extension actions.

- **View all semesters:** This can be the main view for managing study time, from which managers can:
 - **Add new semester:** Introduce a new semester.
 - **Delete semester:** Delete an existing semester.
 - **Update semester:** Modify the details of an existing semester.
 - **View all magazines:** This central function can allow managers to monitor the publication inventory, with options to:
 - **Add new magazine:** Contribute new publications to the system.
 - **Search by name:** Locate the magazine by its title.
 - **Update magazine:** Change the details of a publication.
 - **Delete magazine:** Delete the publication from the system.

- **View selected articles:** This suggests examining articles in a more focused manner, perhaps within a particular magazine or semester. Extended actions may include:
 - **Search selected articles by name:** Find articles within the selected range.
 - **View a specific article:** Check the details of a specific article, with the ability to:
 - **Create and view comments:** Interact with content, perhaps to review or respond.
 - **Download .zip file:** Get a compressed archive, which can be articles or related documents.
- **View personal information:** This is a personal account management feature where managers can:
 - **Update personal information:** Edit their profile details.
 - **Change password:** Update login information for security purposes.
- **Logout:** Action to exit the system safely.

The use of <<extends>> indicates that additional actions are optional extensions of the basic functionality, depending on specific conditions or user decisions. This diagram serves as a functional map for managers in this system, outlining potential workflows and task management.

5.2.4. Use Case diagram for Student



Figure 32: Use Case diagram for Student.

This use case diagram presents the actions available to a "**Student**" role within a system after logging in through a "*Login page*". Here are the functionalities and their potential extensions:

- **View personal information:** The student can check their profile details.
 - **Update personal information:** Modify profile details.

- **Change password:** Securely change the account password.
- **View all magazines in faculty:** Students can browse publications related to their faculty.
 - **Search magazine by name:** Look up magazines by title within the faculty.
 - **Submit article for a specific magazine:** Send in an article to be considered for publication.
 - **Receive email when coordinator comment or reject the article:** Get notified about the status of submitted articles.
 - **View personal article:** Manage articles the student has submitted
 - **Update personal article:** Make changes to articles they have submitted.
 - **Delete personal article:** Remove their submitted articles from the system.
 - **Make comment:** Leave feedback or thoughts on articles.
- **View magazines:** General access to magazines, with additional capabilities:
 - **View selected articles:** Read specific articles from the magazines.
 - **View the content of the article:** Access the full content of an article.
 - **Make comment:** Leave feedback or thoughts on articles.
 - **Filter articles by faculty:** Narrow down articles to those related to a particular faculty.
 - **Search magazine by name:** Find magazines by title.
- **Logout:** Sign out from the system securely.

The use of <<extends>> indicates optional actions that a student can perform depending on certain conditions or choices.

5.2.4. Use Case diagram for Coordinator

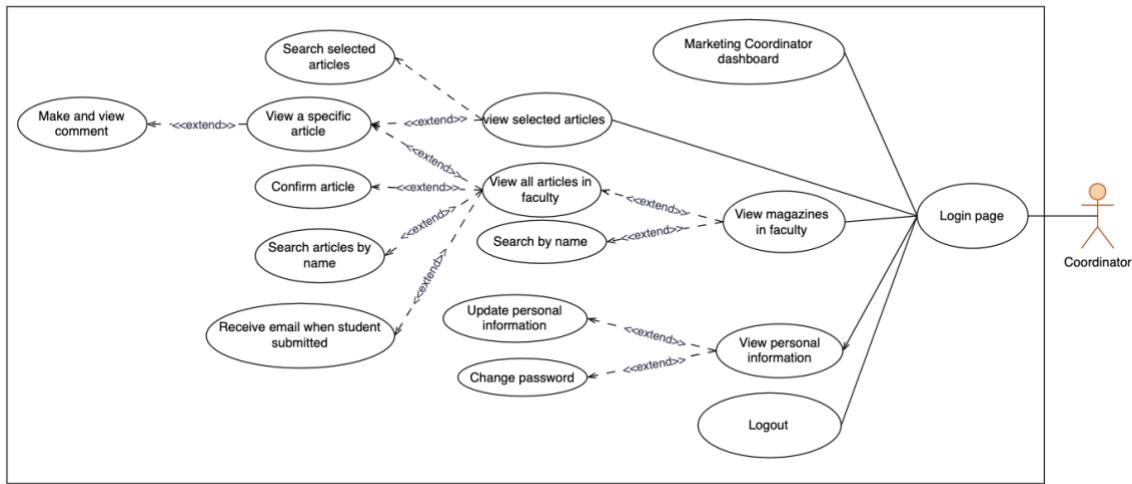


Figure 33: Use Case diagram for Coordinator.

This use case diagram outlines the various actions that a "Coordinator," after "login page".

- **Marketing Coordinator dasboard**
- **View personal information:** Access their profile details.
 - **Update personal information:** Edit their personal details.
 - **Change password:** Update their security credentials.
- **View magazines in faculty:** Review publications related to their faculty area.
 - **Search by name:** Find magazines by their titles within the faculty.
 - **View all articles in faculty:** Look at all the articles submitted under their faculty.
 - **Search articles by name:** Locate articles based on their titles.
 - **Receive email when student submitted:** Get notifications when a student submits an article.
 - **Confirm article:** Approve or verify the articles for publication.
 - **View a specific article:** Read a particular article in detail.
 - **Make and view comment:** Leave feedback or notes on articles.
- **View selected articles:** Read certain articles they are interested in.
 - **View a specific article:** Read a particular article in detail.
 - **Make and view comment:** Leave feedback or notes on articles.
 - **Search selected articles:** Search through the chosen articles.
- **Logout:** Securely sign out of the system.

The use of <> indicates that the activities branching out are extensions or optional actions that can be performed by the Coordinator under certain conditions or when they choose to execute more specific tasks. This diagram serves as a roadmap for the Coordinator's role in the system, emphasizing content management, personal account settings, and interactive functions with the articles managed within the faculty's domain.

6.3. SiteMap

6.3.1. Guest

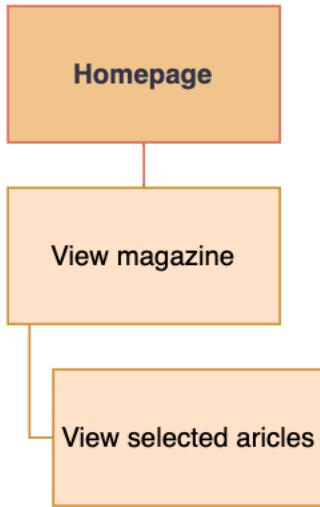


Figure 34: Sitemap design for Guest role.

With this diagram, we want to create a simple hierarchy of site navigation.

- **Home:** This is the entry point to the website, the main page where users begin navigation.
- **View Magazine:** From the home page, users can navigate to a page listing journals. This may be a catalog or index of publications available on the website.
- **View selected articles:** After selecting a journal, the user will be taken to a subset of content, which are the articles in the selected journal.

6.3.2. Admin

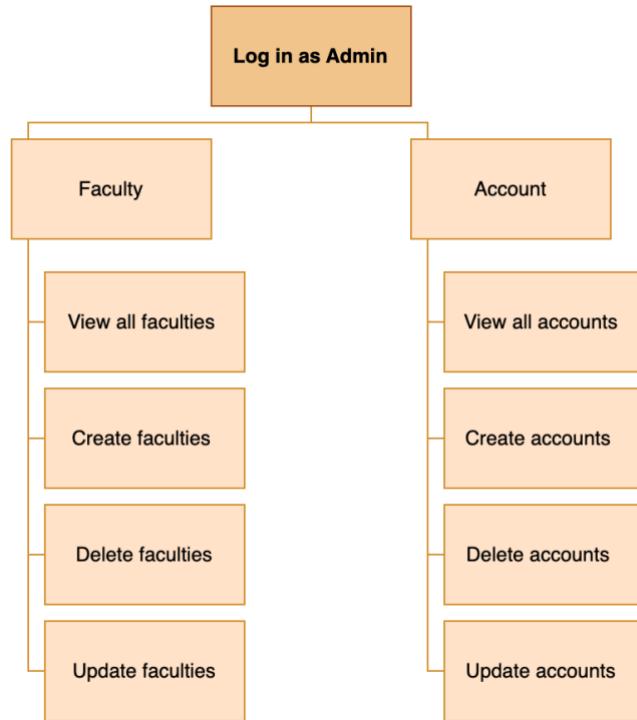


Figure 35: Sitemap design for Admin role.

This diagram seems to outline the administrative functions of the web system once the administrator logs in. This diagram is structured into two main categories, each with its own set of actions:

- **Faculty:**

- **View all faculties:** The admin can see a list of all faculty entities within the system.
- **Create faculties:** The admin has the ability to add new faculty entries to the system.
- **Delete faculties:** The admin can remove existing faculties from the system.
- **Update faculties:** The admin can make changes to the details of existing faculties.

- **Account:**

- **View all accounts:** This allows the admin to review all user accounts.
- **Create accounts:** The admin can create new user accounts.
- **Delete accounts:** The admin has the power to delete user accounts.
- **Update accounts:** The admin can update information related to user accounts.

6.3.3. Manager

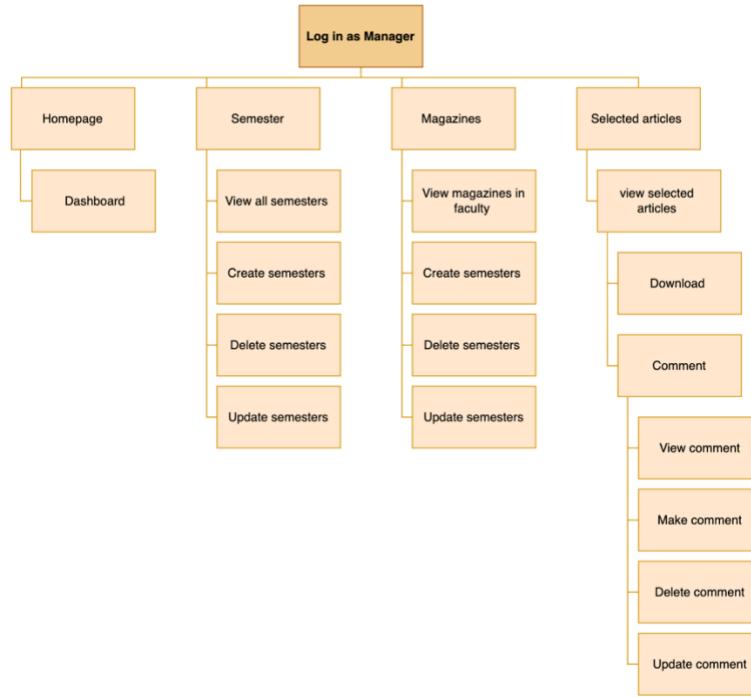


Figure 36: Sitemap design for Manager role.

The provided diagram outlines the actions available to someone with a "**Manager**" role in a system. The flow starts with logging in and branches out into several main areas of functionality:

- **Homepage:** Serves as the initial screen or dashboard with options to navigate to various parts of the system.
 - **Dashboard:** A control panel for the Manager, potentially providing an overview of key metrics or actions.
- **Semester:** Management of academic periods or cycles:
 - **View all semesters:** Oversee all the academic sessions listed in the system.
 - **Create semesters:** Add new academic sessions to the system.
 - **Delete semesters:** Remove existing academic sessions.
 - **Update semesters:** Modify the details of the academic sessions.
- **Magazines:** Overseeing publications:
 - **View magazines in faculty:** Browse through magazines related to a specific faculty.
 - **Create semesters:** Potentially an error in the diagram, this should probably be "Create magazines" or a similar action related to magazines.
 - **Delete semesters:** Likely another error, this should correspond to deleting magazines.
 - **Update semesters:** And again, this should logically be updating magazine details.

- **Selected articles:** Engaging with specific pieces of content:
 - **View selected articles:** Read articles chosen from the list of publications.
 - **Download:** Obtain articles in a downloadable format, perhaps as PDFs.
 - **Comment:** Participate in discussions or leave feedback on articles.
 - View comment:** Review comments made by others or themselves.
 - Make comment:** Add new comments.
 - Delete comment:** Remove existing comments.
 - Update comment:** Edit previously made comments.

6.3.4. Student

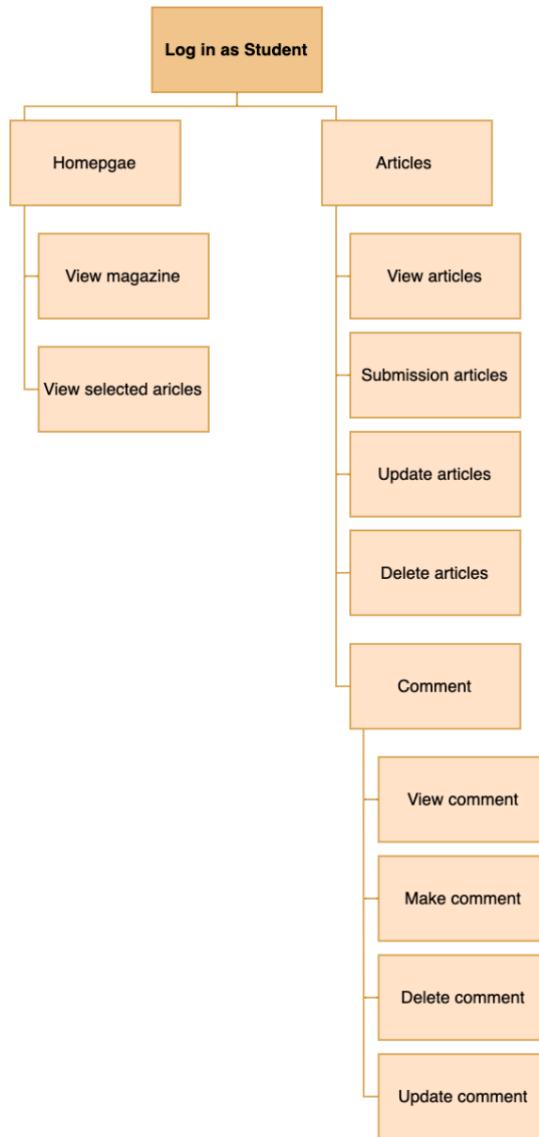


Figure 37: Sitemap design for Student role.

The diagram appears to illustrate the user flow for "**Students**" in the school's web system, starting with the login process. Below is a breakdown of the steps and options available:

- Log in as Student: The initial step where a student accesses the system.
- Homepage: After logging in, the student arrives at the homepage, which serves as a gateway to various functions.
- View magazine: Students can browse through different magazines available on the platform.
- View selected articles: From the magazines, students can select and read specific articles.
- Articles: A separate branch that deals with article management:
 - View articles: Students can read articles available on the platform.
 - Submission articles: They have the option to submit articles for publication.
 - Update articles: They can make changes to the articles they have submitted.
 - Delete articles: They can remove their articles from the platform.
- Comment: A feature allowing students to engage with the content:
 - View comment: Look at comments made on articles by themselves or others.
 - Make comment: Post new comments on articles.
 - Delete comment: Remove their comments.
 - Update comment: Edit previously made comments.

This flowchart outlines the student's navigation paths and the actions they can perform within the system.

6.3.5. Coordinator

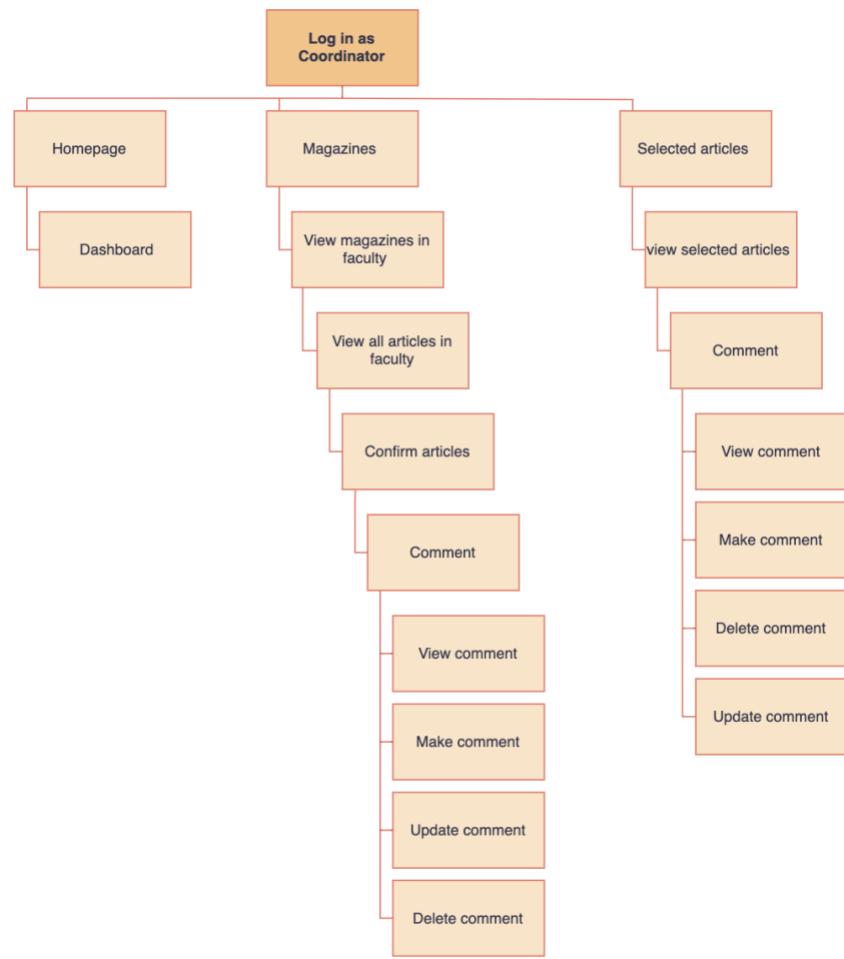


Figure 38: Sitemap design for Coordinator role.

The diagram represents a flowchart that outlines the navigation and functionalities available to a "Coordinator" within a system. It demonstrates the pathways and actions that a Coordinator can take after logging in:

- **Homepage:** The starting point after logging in, which can lead to the dashboard or magazines section.
 - **Dashboard:** A central location for the Coordinator to access various management features.
- **Magazines:** From here, the Coordinator has multiple actions related to magazine management:
 - **View magazines in faculty:** Look at magazines associated with a specific faculty.
 - **View all articles in faculty:** Review all articles submitted under a particular faculty.
 - **Confirm articles:** Likely a moderation function to approve or reject articles for publication.
 - o **Comment:** Interact with articles through comments:
 - View comment:** Read comments made by others or themselves.
 - Make comment:** Add a new comment to an article.
 - Update comment:** Modify an existing comment.

- Delete comment:** Remove a comment.
- **Selected articles:** A more focused area where the Coordinator can engage with individual articles:
 - **View selected articles:** Read articles that have been selected or flagged for review.
 - **Comment:** Interact with articles through comments:
View comment: Read comments made by others or themselves.
Make comment: Add a new comment to an article.
Update comment: Modify an existing comment.
Delete comment: Remove a comment.

6.4. UI Design

6.4.1. Landing Page

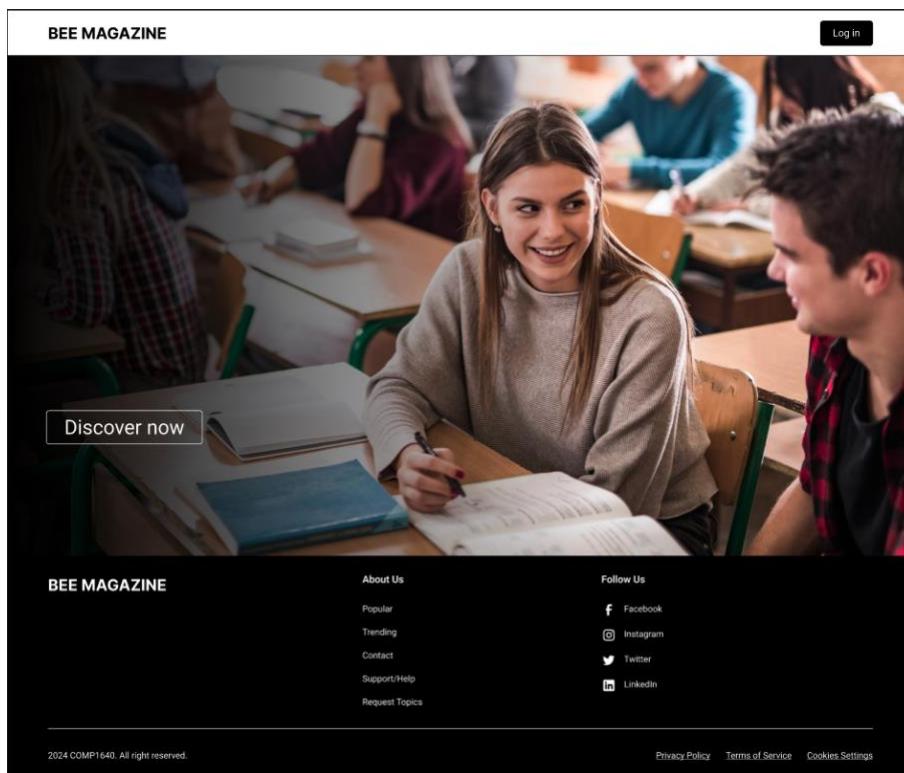


Figure 39: Landing page.

6.4.2. Login Page

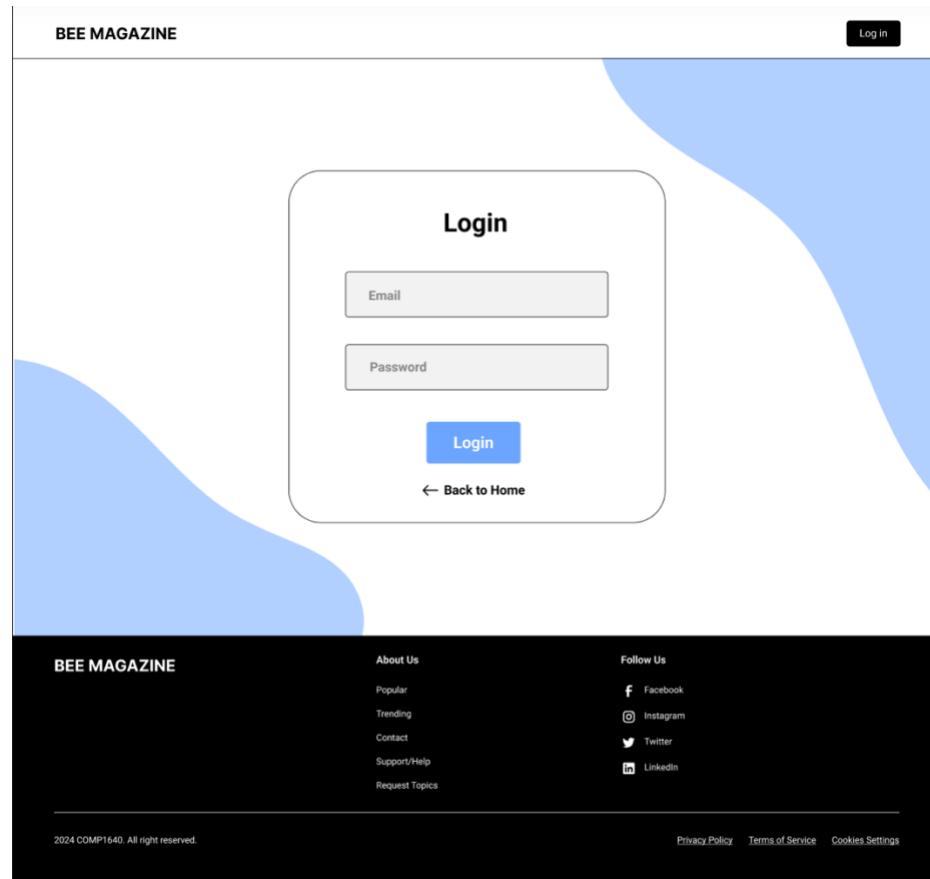


Figure 40: Login page.

6.4.3. Guest

❖ Homepage

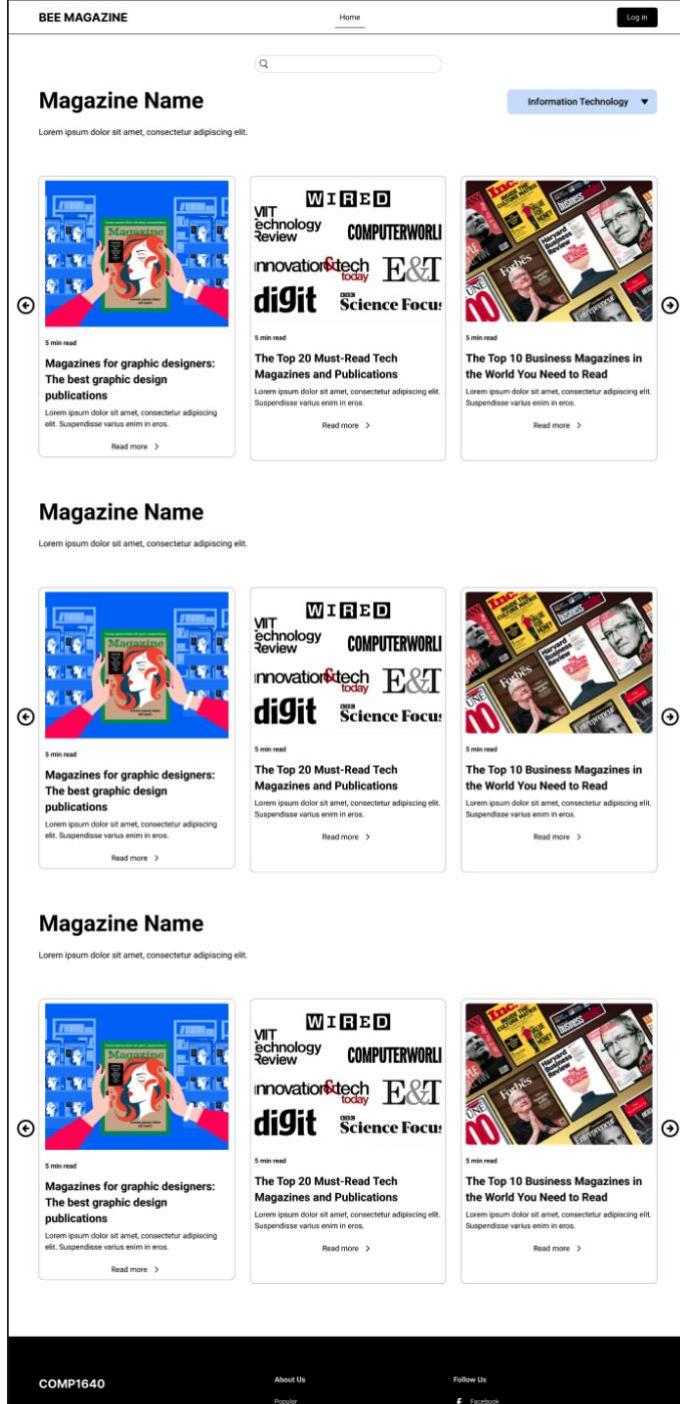


Figure 41: Homepage - Guest view.

❖ View details of selected Guest posts

The Top 10 Business Magazines in the World You Need to Read



Introduction

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Collaboratively deploy intuitive partnerships whereas customized e-markets. Energistically maintain performance based strategic thematic whereas just-in-time methodologies. Proactively consequently drive functionalized intellectual capital and.

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Conclusion

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COMP1640

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Figure 42: View details of a selected article - Guest view.

6.4.4. Student

❖ Home page

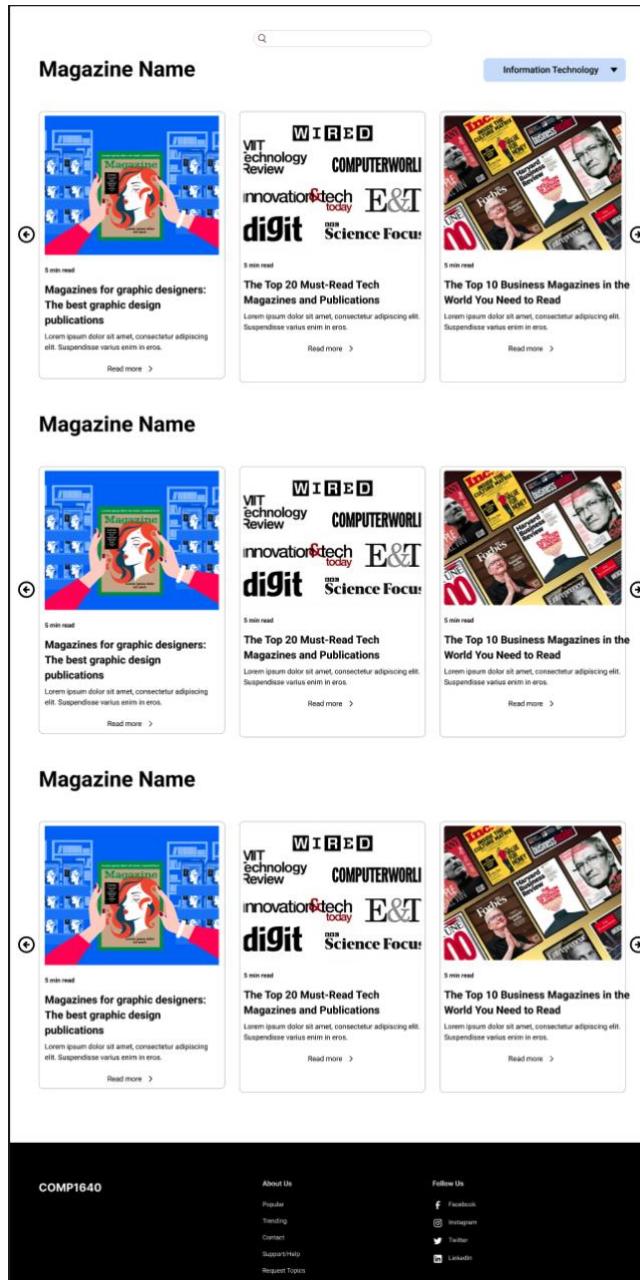


Figure 43: Homepage - Student view.

❖ View details of a selected article

DEE MAGAZINE

Home

Log in

Magazines > Business

The Top 10 Business Magazines in the World You Need to Read

Introduction

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Conclusion

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Add a comment:

▷

Figure 44: View details of a selected article - Student view.

- ❖ View list of magazines to upload articles

Figure 45: View list of magazines to upload articles - Student view.

❖ Submit article

Figure 46: Submit article - Student view.

❖ View my article specifically

Figure 47: View my article specifically - Student view.

❖ Edit Submission

Figure 48: Edit Submission - Student view.

❖ Confirm delete

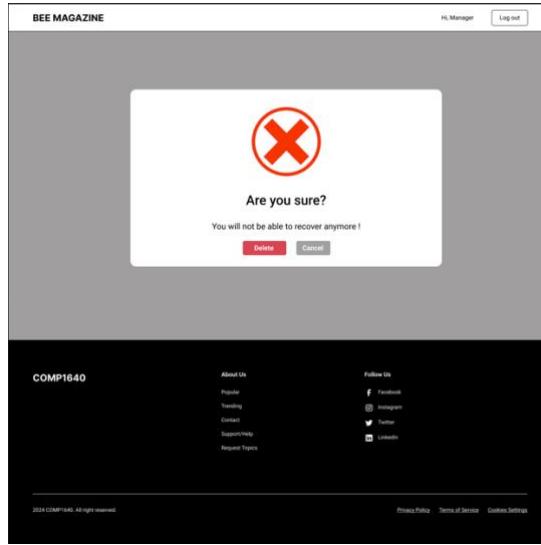


Figure 49: Confirm delete - Student view.

❖ Profile

Figure 50: View your own personal information - Student view.

6.4.5. Coordinator

❖ Dashboard

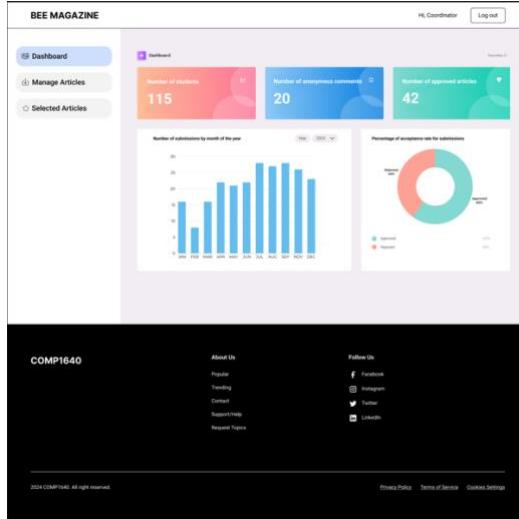


Figure 51: Dashboard – Coordinator view.

❖ Manage Articles

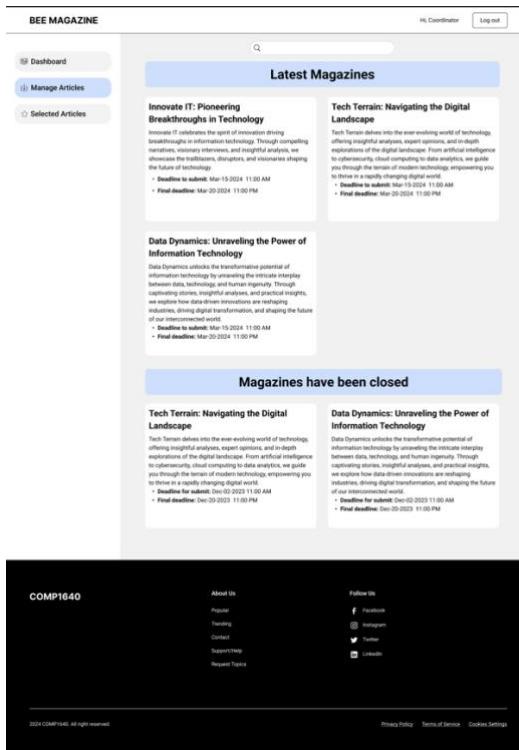


Figure 52: View faculties specific magazine articles - Coordinator view.

The screenshot shows the BEE MAGAZINE Coordinator view. On the left, there's a sidebar with 'Dashboard', 'Manage Articles' (which is selected and highlighted in blue), and 'Selected Articles'. The main content area displays a table of articles. The table has columns for 'Name' and 'Title'. All articles listed are titled 'Tech Terrain: Navigating the Digital Landscape'. The names of the authors are listed vertically on the left: Nguyen Xuan Truong, Tran Dieu Thao, Vu Ngan Hoang Danh, Tran Ngan Long, Nguyen Manh Ngoc Khanh, Nguyen Tan Khoa, Nguyen Bao Trang, Nguyen Xuan Truong, Tran Dieu Thao, Vu Ngan Hoang Danh, Tran Ngan Long, Nguyen Manh Ngoc Khanh, Nguyen Tan Khoa, Nguyen Bao Trang, and Nguyen Bao Trang. Each article row includes a small icon and the date '5 Feb'. At the bottom of the page, there's a footer with 'COMP1640', links to 'About Us', 'Follow Us' (Facebook, Instagram, Twitter, LinkedIn), and 'Request Topics', along with standard links like 'Privacy Policy', 'Terms of Service', and 'Cookies Settings'.

Figure 53: All articles belong to the same magazine – Coordinator view.

This screenshot shows a detailed view of a single article within the BEE MAGAZINE Coordinator interface. The article title is 'Tech Terrain: Navigating the Digital Landscape'. The description is a placeholder text: 'Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse varius enim in eros.' The student name is 'Nguyen Van A' and the date submitted is 'Mar-17-2024 3:50 PM'. Below the submission details, there are sections for 'File submissions' (with a link to 'COMP1640_TechTerrain_NavigatingtheDigitalLandscape_draft.doc') and 'Image File' (with a link to 'LandingpictureforTechTerrain.png'). A comment from 'Ed Sheeran' is displayed, reading: 'Good point! • Etiam ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Need to improve: • Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.' The timestamp for this comment is '1 hour ago'. At the bottom, there's a 'Add a comment:' input field and a 'Send' button. The footer is identical to Figure 53, featuring 'COMP1640', 'About Us', 'Follow Us' (Facebook, Instagram, Twitter, LinkedIn), 'Request Topics', and standard links.

Figure 54: View my article specifically - Coordinator view.

❖ Selected Article

Figure 55: View selected articles in the same faculty - Coordinator view.

Author	Title	Rating	Date
Nguyen Xuan Thuong	Tech Terrain: Navigating the Digital Landscape		5 Feb
Tran Dieu Thao	Tech Terrain: Navigating the Digital Landscape		5 Feb
Vu Nguyen Hoang Oanh	Tech Terrain: Navigating the Digital Landscape		5 Feb
Tran Ngoc Long	Tech Terrain: Navigating the Digital Landscape		5 Feb
Nguyen Manh Ngoc Khanh	Tech Terrain: Navigating the Digital Landscape		5 Feb
Nguyen Tan Khoa	Tech Terrain: Navigating the Digital Landscape		5 Feb
Nguyen Bao Trang	Tech Terrain: Navigating the Digital Landscape		5 Feb

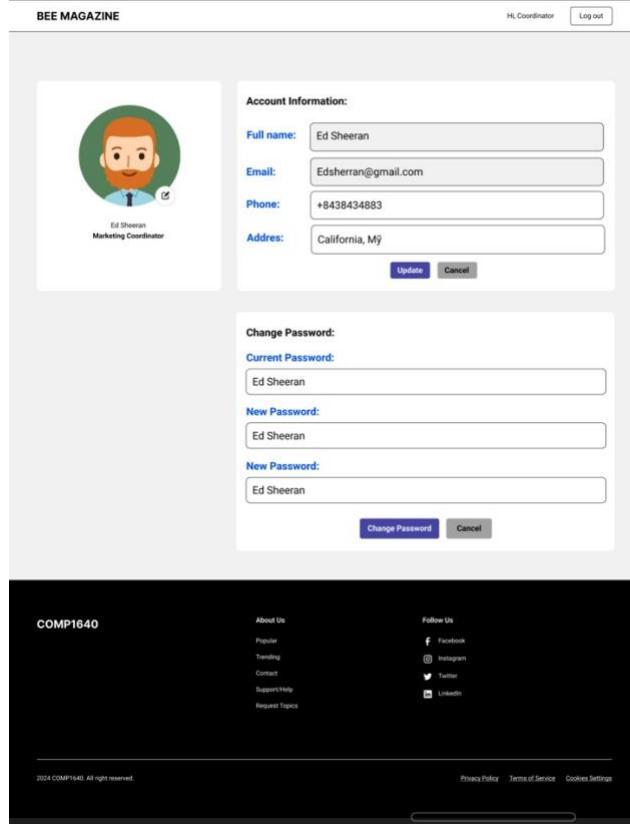


Figure 56: View your own personal information - Coordinator view.

6.4.6. Manager

◊ Dashboard

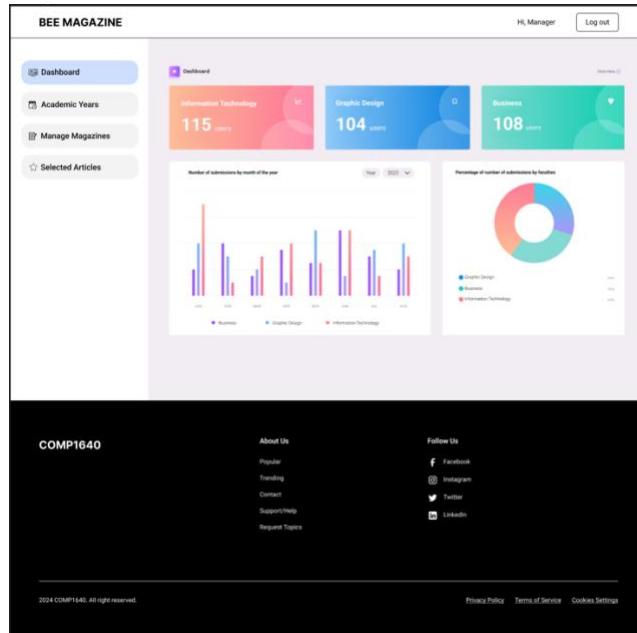


Figure 57: Dashbroad - Manager view.

◊ Academic Years

The screenshot shows a web-based application for managing academic years. At the top, there's a navigation bar with 'BEE MAGAZINE' on the left, 'Hi, Manager' in the center, and a 'Log out' button on the right. Below the navigation is a sidebar with four items: 'Dashboard' (selected), 'Academic Years' (highlighted in blue), 'Manage Magazines', and 'Selected Articles'. The main content area displays a table of academic years:

ID	Semester	Final closure date	Action
1	2015 - 2016	20/05/2016	
2	2016 - 2017	19/05/2017	
3	2017 - 2018	20/05/2018	
4	2018 - 2019	19/05/2019	

At the top right of the main content area, there's a link 'Add academic year' with a plus sign icon. The bottom of the page includes a footer with 'COMP1640' logo, links to 'About Us' (Popular, Trending, Contact, Support/Help, Request Topics), 'Follow Us' (Facebook, Instagram, Twitter, LinkedIn), and a copyright notice '2024 COMP1640. All right reserved.' along with links to 'Privacy Policy', 'Terms of Service', and 'Cookies Settings'.

Figure 58: Academic years management - Manager view.

This screenshot shows a confirmation dialog box centered on the screen. It features a large red 'X' icon at the top, followed by the question 'Are you sure?'. Below the question, a smaller text says 'You will not be able to recover anymore !'. At the bottom of the dialog are two buttons: a red 'Delete' button and a grey 'Cancel' button. The background of the page is dimmed to indicate that the dialog is active.

The underlying page content includes the 'BEE MAGAZINE' header, 'Hi, Manager' and 'Log out' buttons, a sidebar with 'Academic Years' selected, and a footer with 'COMP1640' logo, 'About Us' links, 'Follow Us' social media links, and copyright information.

Figure 59: Confirm delete.

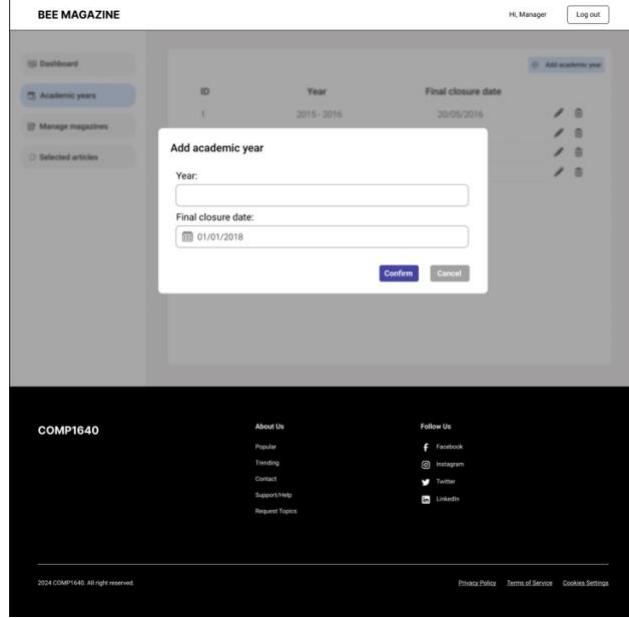


Figure 60: Add academic years - Manager view.

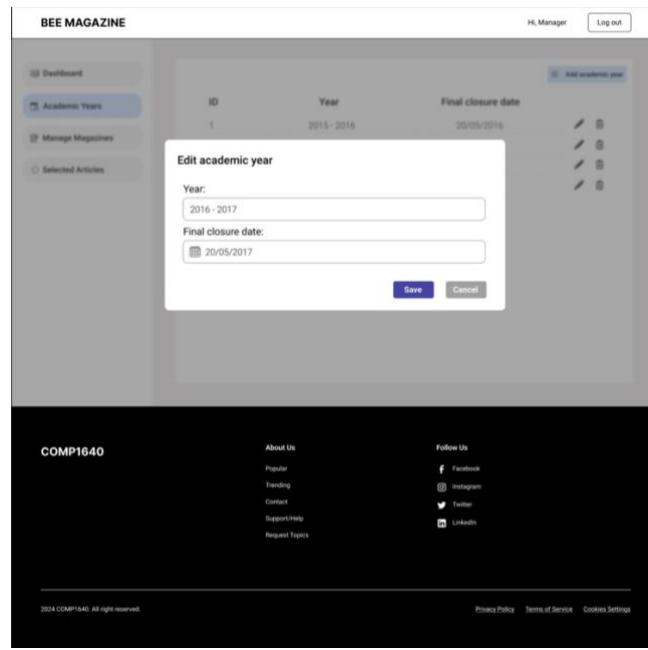


Figure 61: Edit academic year.

❖ Manage Magazines

The screenshot shows the 'BEE MAGAZINE' interface from a manager's perspective. The top navigation bar includes 'Hi, Manager' and 'Log out'. On the left, a sidebar menu lists 'Dashboard', 'Academic Years', 'Manage Magazines' (which is selected and highlighted in blue), and 'Selected Articles'. The main content area features a 'Latest Magazines' section with three cards:

- Innovate IT: Pioneering Breakthroughs in Technology**: Describes the magazine's focus on innovation in technology. Deadlines: Mar-15-2024 11:00 AM and Mar-20-2024 11:00 PM.
- Tech Terrain: Navigating the Digital Landscape**: Describes the magazine's focus on technology trends. Deadlines: Mar-15-2024 11:00 AM and Mar-20-2024 11:00 PM.
- Data Dynamics: Unraveling the Power of Information Technology**: Describes the magazine's focus on data and technology. Deadlines: Mar-15-2024 11:00 AM and Mar-20-2024 11:00 PM.

Below this, a message states 'Magazines have been closed'. The footer contains links for 'About Us', 'Follow Us' (Facebook, Instagram, Twitter, LinkedIn), and 'Request Topic'.

Figure 62: View faculties specific magazine articles - Manager view.

This screenshot shows the 'Update topic' dialog box overlaid on the BEE MAGAZINE interface. The dialog has fields for 'Title' (containing 'Innovate IT: Pioneering Breakthroughs in Technology'), 'Description' (containing the magazine's focus on innovation), and 'Deadline to submit' (set to '15/03/2024'). It includes 'Delete', 'Update', and 'Cancel' buttons. The background shows the same sidebar and latest magazines list as Figure 62.

Figure 63: Update topic – Manager view.

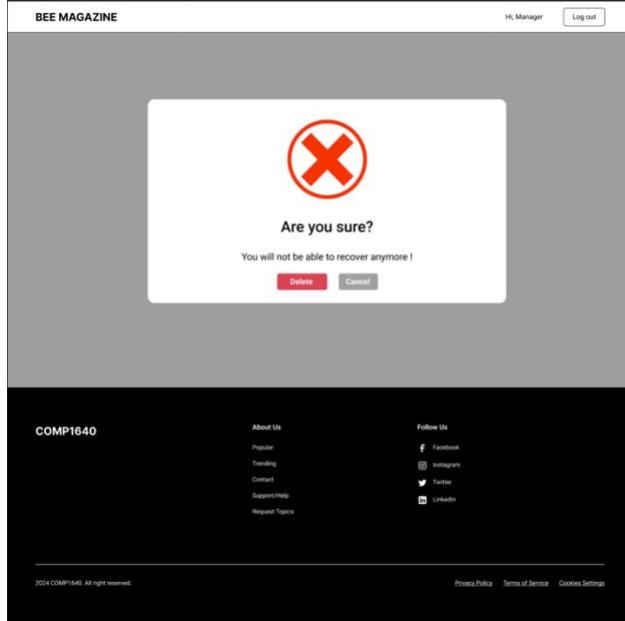


Figure 64: Confirm Delete - Manager view.

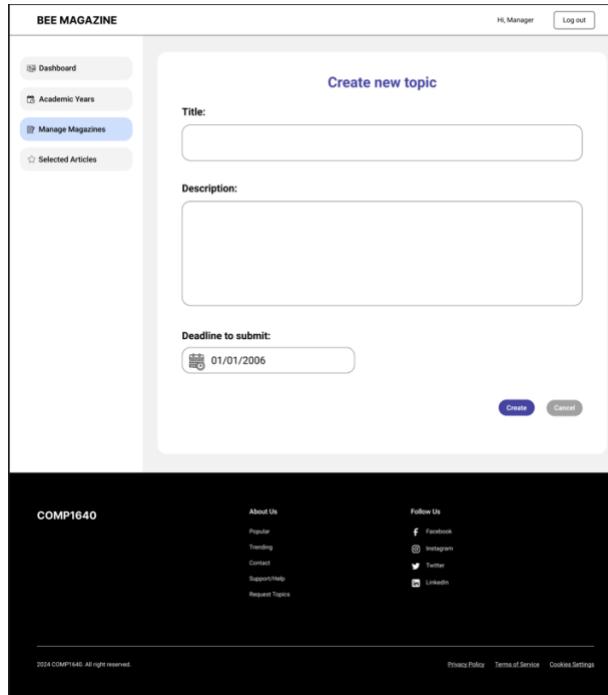


Figure 65: Create new topics cho manage magazines - Manager view.

❖ Selected Articles

The screenshot shows a list of 15 selected articles. Each article entry includes a small yellow star icon, the author's name, the article title, a brief description, and the submission date (3 Feb). The sidebar on the left has tabs for 'Dashboard', 'Academic Years', 'Manage Magazines', and 'Selected Articles' (which is currently active).

Author	Title	Description	Date
Nguyen Xuan Truong	Tech Terrain: Navigating the Digital Landscape	Tech Terrain: Navigating the Digital Landscape	3 Feb
Tran Dieu Thao	Tech Terrain: Navigating the Digital Landscape	Tech Terrain: Navigating the Digital Landscape	3 Feb
Vu Nguyen Hoang Dinh	Tech Terrain: Navigating the Digital Landscape	Tech Terrain: Navigating the Digital Landscape	3 Feb
Tran Ngoc Long	Tech Terrain: Navigating the Digital Landscape	Tech Terrain: Navigating the Digital Landscape	3 Feb
Nguyen Manh Ngoc Khanh	Tech Terrain: Navigating the Digital Landscape	Tech Terrain: Navigating the Digital Landscape	3 Feb
Nguyen Tan Khoa	Tech Terrain: Navigating the Digital Landscape	Tech Terrain: Navigating the Digital Landscape	3 Feb
Nguyen Bao Trang	Tech Terrain: Navigating the Digital Landscape	Tech Terrain: Navigating the Digital Landscape	3 Feb
Nguyen Xuan Truong	Tech Terrain: Navigating the Digital Landscape	Tech Terrain: Navigating the Digital Landscape	3 Feb
Tran Dieu Thao	Tech Terrain: Navigating the Digital Landscape	Tech Terrain: Navigating the Digital Landscape	3 Feb
Vu Nguyen Hoang Dinh	Tech Terrain: Navigating the Digital Landscape	Tech Terrain: Navigating the Digital Landscape	3 Feb
Tran Ngoc Long	Tech Terrain: Navigating the Digital Landscape	Tech Terrain: Navigating the Digital Landscape	3 Feb
Nguyen Manh Ngoc Khanh	Tech Terrain: Navigating the Digital Landscape	Tech Terrain: Navigating the Digital Landscape	3 Feb
Nguyen Tan Khoa	Tech Terrain: Navigating the Digital Landscape	Tech Terrain: Navigating the Digital Landscape	3 Feb
Nguyen Bao Trang	Tech Terrain: Navigating the Digital Landscape	Tech Terrain: Navigating the Digital Landscape	3 Feb
Nguyen Bao Trang	Tech Terrain: Navigating the Digital Landscape	Tech Terrain: Navigating the Digital Landscape	3 Feb

Figure 66: View the selected article in the same faculty - Manager view.

The screenshot shows a detailed view of a single article submission. The article title is 'Tech Terrain: Navigating the Digital Landscape' and the description is 'Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse varius enim in eros.' The student name is 'Nguyen Van A' and the date submitted is 'Mar-17-2024 3:50 PM'. Below the submission, there is a comment from 'Ed Sheeran' with a good point and a file submission section.

Article title: Tech Terrain: Navigating the Digital Landscape
Article description: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse varius enim in eros.
Student name: Nguyen Van A
Date submitted: Mar-17-2024 3:50 PM

File submissions: COMP1640_TechTerrainNavigatingtheDigitalLandscape_draft.doc
Image File: LandingPageHeaderforTechTerrain.png

Ed Sheeran:
 Good point:
 • Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum
 Need to improve:
 • Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Add a comment:

Figure 67: View the selected article in the submitted article section - Manager view.

❖ Profile

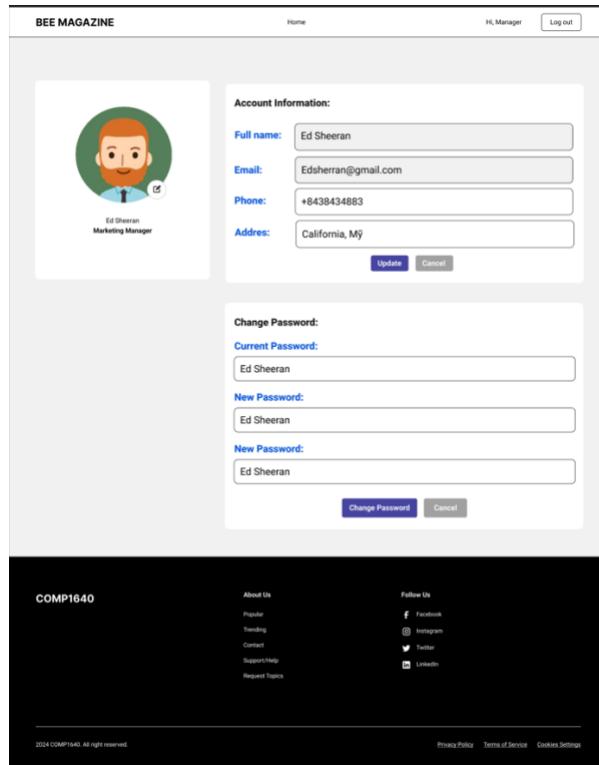


Figure 68: View your own personal information - Manager view.

6.4.7. Admin

◊ Faculty manage

ID	Faculty name	Account count	
1	Graphic Design	10	
2	Information Technology	14	
3	Business	17	
4	Event	12	

Figure 69: View faculty management – Admin view.

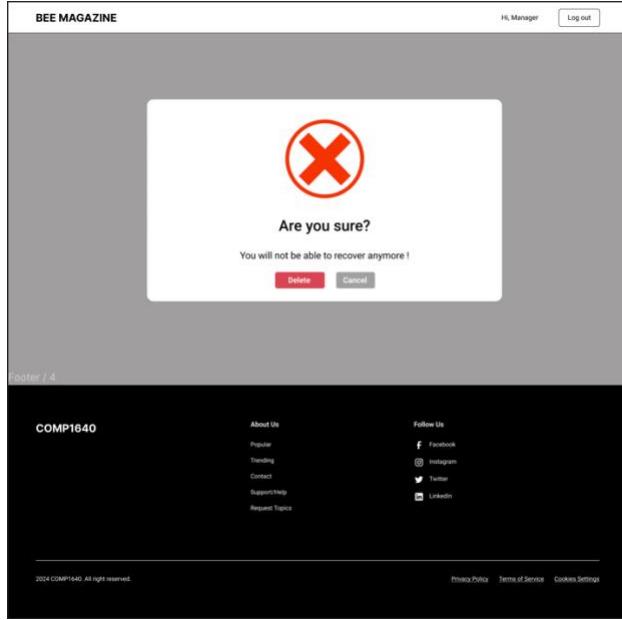


Figure 70: Confirm delete in manage faculty - Admin view.

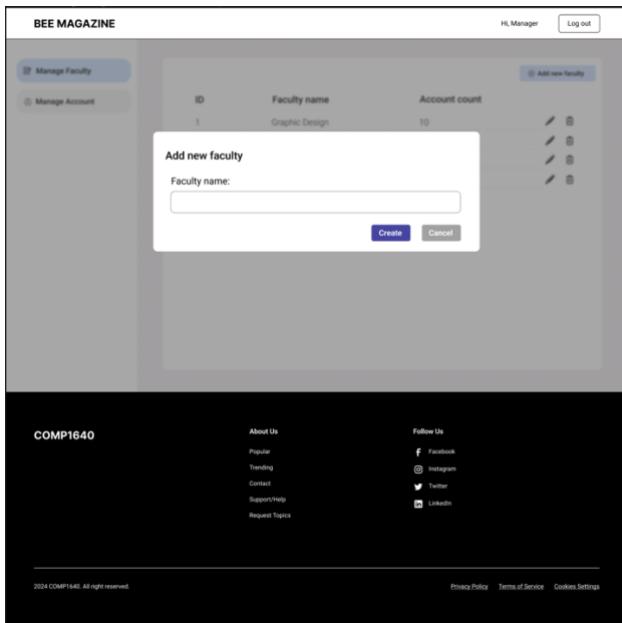


Figure 71: Add new faculty in manage faculty - Admin view.

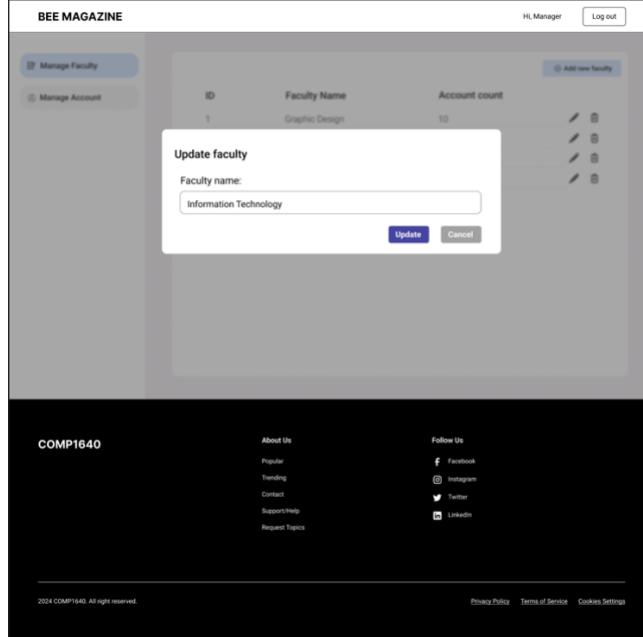


Figure 72: Update faculty in manage faculty - Admin view.

❖ Manage Account

ID	Full name	Email	Role	Faculty	Action
1	Ed Sheeran	edsheeran@gmail.com	Manager	Information Technology	
2	Taylor Swift	taylorswift@gmail.com	Coordinator	Information Technology	
3	Elvis Presley	elvispresley@gmail.com	Coordinator	Graphic Design	
4	Levi Ham	leoham@gmail.com	Coordinator	Graphic Design	
5	Nguyen Xuan Truong	xuantuong@gmail.com	Student	Information Technology	
6	Tuan Dau Thao	dauthao@gmail.com	Student	Information Technology	
7	Vo Nguyen Hoang Dinh	hoangdinh@gmail.com	Student	Information Technology	
8	Nguyen Tan Khoa	tankhoa@gmail.com	Student	Information Technology	
9	Nguyen Manh Ngoc Khanh	ngockhanh@gmail.com	Student	Information Technology	

Figure 73: Manage Account – Admin view.

BEE MAGAZINE

Hi, Manager Log out

Manage Faculty Manage Account Add new account

ID	Full name	Email	Role	Faculty	Action
1	Ed Sheeran	edsheeran@gmail.com	Manager	Information Technology	
2	Taylor Swift	taylorswift@gmail.com	Coordinator	Information Technology	
3	Elvis Presney	elvispresney@gmail.com	Coordinator	Graphic Design	
4	Leo Ham	leoham@gmail.com	Coordinator	Graphic Design	
5	Nguyen Xuan Truong	xuantuong@gmail.com	Student	Information Technology	
6	Tran Dieu Thao	dieuthao@gmail.com	Student	Information Technology	
7	Vo Nguyen Hoang Danh	hoangdanh@gmail.com	Student	Information Technology	
8	Nguyen Tan Khoa	tanhoa@gmail.com	Student	Information Technology	
9	Nguyen Manh Ngoc Khanh	ngockhanh@gmail.com	Student	Information Technology	

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Figure 74: Filter role in manager account - Admin view

BEE MAGAZINE

Hi, Manager Log out

Manage Faculty Manage Account Add new account

ID	Full name	Email	Role	Faculty	Action
1	Ed Sheeran	edsheeran@gmail.com	Manager	Information Technology	
2	Taylor Swift	taylorswift@gmail.com	Coordinator	Information Technology	
3	Elvis Presney	elvispresney@gmail.com	Coordinator	Graphic Design	
4	Leo Ham	leoham@gmail.com	Coordinator	Graphic Design	
5	Nguyen Xuan Truong	xuantuong@gmail.com	Student	Information Technology	
6	Tran Dieu Thao	dieuthao@gmail.com	Student	Information Technology	
7	Vo Nguyen Hoang Danh	hoangdanh@gmail.com	Student	Information Technology	
8	Nguyen Tan Khoa	tanhoa@gmail.com	Student	Information Technology	
9	Nguyen Manh Ngoc Khanh	ngockhanh@gmail.com	Student	Information Technology	

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Support/Help LinkedIn
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Figure 75: Filter faculty in manager account – Admin view.

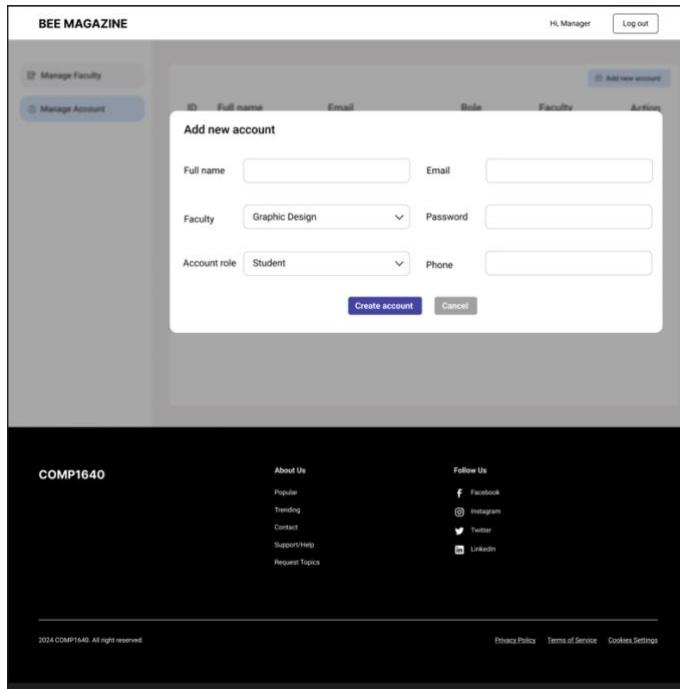


Figure 76: Add new account in manage account - Admin view.

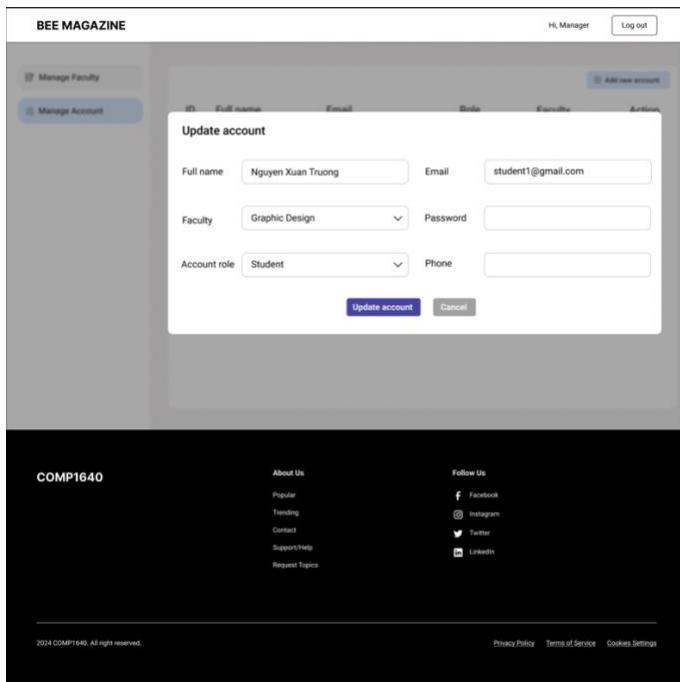


Figure 77: Update account in manage account - Admin view.

7. Implementation

7.1. Screenshot of the Project Folder Structure

7.2. Screenshot of the final Product

7.3. Testing

1. Implementation

1.1 Screenshot of the Project Folder Structure

Include Project Folder Structure

Include 3 – 5 lines of description

1.2 Screenshot of the final Product

1.3 Testing

Test plan, test log, sufficient data to fully test, evidence of testing finding errors