

**Undergraduate Final Year  
Enterprise Web Software Development  
BSc (Hons) Computing**

# Group Coursework Report (COMP-1640)

**Team name:** Group 1

**Team members:** Thaw Zin Lin Myat, Kaung Myat Htun, Nyan Lin Htet, Moe Thet Ko,  
Zwe Yu Ya Kyaw Zin Oo, Thin Htet San, Han Nadi Aung.

## Roles

Thaw Zin Lin Myat (ID – **001397598**): Product Owner, Development Team member (Full-stack Development & Database Management)

Moe Thet Ko (ID – **001397569**): Scrum Master, Development Team member (Documentation, Database Management)

Nyan Lin Htet (ID – **001397845**): Development Team member (Documentation, Database Management, Program Testing)

Kaung Myat Htun (ID – **001397551**): Development Team member (Interface Development, UI/UX Design & Planning, Program Testing)

Zwe Yu Ya Kyaw Zin Oo (ID – **001397610**): Development Team member (Documentation, UI/UX Design)

Thin Htet San (ID – **001404002**): Development Team member (Documentation, UI/UX Design)

Han Nadi Aung (ID – **001397487**): Development Team member (Documentation, UI/UX Design)

## Project URLs:

Website URL: LOCALHOST (port:8000)

Group Repository: <https://github.com/Willow7T/UniArctic>

Group Screencast: <https://www.youtube.com/watch?v=IS3LEze4Fu4>

**Team name:** Group 1

**Software Platform:** Laravel/ PHP/ NodeJS/ Vite/ HTML5/ CSS/ JavaScript/ Tailwind  
CSS

**Backend Database:** PostgreSQL

## Site

**URL:** LOCALHOST (port:8000)

**Default Admin:** Admin | **Admin Email:** [admin@uniarctic.com](mailto:admin@uniarctic.com) | **Password:** password

**Default Manager:** Manager | **Manager Email:** [manager@uniarctic.com](mailto:manager@uniarctic.com) | **Password:**  
password

## Group Repository

**URL:** <https://github.com/Willow7T/UniArctic>

**Password:** -

## Screen Cast

**URL:** <https://www.youtube.com/watch?v=IS3LEze4Fu4>    **Password:** -

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## Introduction

This document is the report of how the teams have done the project to fulfil all the requirements. this document aims to explain in detail how the system has been built, what application has been used, what methodology has been used and other development activities. The project is about creating a website for publishing a monthly magazine for a university. This document consists of seven parts: Assumptions, Agile documentation, Database, Functionalities, Website Design, Testing, Presentation, and product evaluation. There is also a conclusion at the end of the documentation.

After we have read the requirements of the website, we must make assumptions to make sure the website can run fully without any necessary functions. Also, some of the clients don't know all of their requirements so we have to analyse their requirements and make assumptions about what additional requirements are required to complete the system. The first part, assumption, of this document, is about what assumptions we have made and why.

The second part is about agile documentation. We need to plan first after knowing what we must do. This part contains about methodology that we have used, how we manage the tasks, create tasks and how the progress of each task.

The third part is about creating the database. This part includes what DBMS is used for creating the database, database coding, how we make the database to be reliable and have recovery options, what we use for the security of the database and what third-party applications or languages we use to extend the abilities of the database.

The fourth part is about the functionality of the website that we have created. It contains a UML diagram to show the roles of the users and their permitted functions. It has detailed

explanations of each function of the website and what can be further improved or added or future development plans for the website.

The fifth part is website design. This part is about explaining about how we research and analysis for the creating the design of the website. This includes wireframes which are the prototypes for the website and an explanation done by using Nielsen's ten principles. Also, include information about how the pages will function.

The sixth part is Testing which includes the Testing plan and Testing Log. The testing plan is about what functions of the website will be tested and what is the expected result. The testing log is about the result of the testing.

The seventh part is about evaluating the website. This includes analysing the website and giving the advantages and disadvantages resulting from the analysis.

## Assumptions

Assumptions are the additional requirements or functions of the system which are not included in the requirement given by the university. We create assumptions by discussing with the team by analyzing the scenario and requirements given. The assumptions are as follows.

- When users register and create an account, all will be registered as guests. Admin Marketing Manager or Marketing Coordinator can change the user type.
- Admin can assign any role including admin role to any user and manage the user such as adding that user to faculty, deleting user etc.
- Admin can create the issues for the website.
- A marketing manager can manage the roles of Marketing Coordinator and Students
- There is more than one manager.
- There is more than one admin.
- Managers can publish many issues and update multiple issues in a month.
- Marketing Coordinators can manage the roles of students in their faculties.
- Students will get notified when the Marketing Coordinator comment on their publication.
- Statistical analysis reports can be only viewed by the Admin, Marketing Manager and Marketing Coordinator
- The articles are categorized by their gender such as comedy, business etc., Faculty and writer name.

## **Agile Methodology**

As this project is meant for group work, we need to use one of the agile methodologies to create plans and assign roles and deadlines to manage the whole project and workflow. We all decided to use scrum.

Scrum is a project framework that can be applied to any type of teamwork project and works best on software development. It is also suitable for small teams, which have a maximum of 10 but can work best because of the scrum and our team has only seven people, which is a fit for the scrum method. It consists of three roles: product owner, scrum master and developer team. For our group, the roles of the developing team are database designer, UI designer, UX designer, backend code writer and tester. The product owner, stake members and team members discuss writing the backlog. After writing the backlog, the Product owner sets the goals for each sprint and scrum master together with the development team uses those backlogs to create sprints, manage the sprints and assign tasks to users.

(scrum.org, 2024) (Atlassian, 2024)

## **Development tool and workflow**

For this project, we decided to use Jira which is a product created by Atlassian. Jira is a management tool for managing projects and tracking bugs. It can plan, track and manage the project workflow and assign tasks to the user. It can provide sprints for agile boards such as Scrum and Kanban. It has many tools to many similar services like Jira service and Jira Align but they are known as Jira Software. Jira has been a popular agile tool as it offers many free services and has a great system to manage the project.

After that Product Owner Thaw Zin Lin Myat, stakeholders and all team members discussed together and created a backlog, scrum master Moe Thet Ko created an account at Jira software and invited the members to the project that has been created for this project. Scrum Master assigns deadlines, assigns tasks to the members and manages the tasks to finish on time. As the scrum master assigns tasks to the member, the Jira software will send emails to the corresponding members so that they are notified about the task they are entrusted with. They will upload the files for the tasks they have finished. When they have finished the tasks, they will notify the scrum master so that he can manage the scrum and task. Everyone will have access to view the tasks and deadlines but only the Scrum Master can manage the tasks and its team.

(Modispacher, 2023)

## Meeting Detail

### Meeting One

Date	5 <sup>th</sup> February
Time	32 minutes and 15 seconds
Attendance	Han Nadi Aung, Kaung Myat Htun, Moe Thet Ko, Nyan Lin Htet, Thaw Zin Lin Myat, Thin Htet San, Zwe Yu Ya Kyaw Zin Oo
Absent	None
Discussion/Activities	<ul style="list-style-type: none"> <li>- Discuss assumptions</li> <li>- Discuss what are the required functions and what should be included in the workload</li> <li>- Discuss what to do this week</li> </ul>
Task Achieved	none
New Tasks	<ul style="list-style-type: none"> <li>- Draw and suggest Home page, Search page and Student submission page (draw three protocol each and suggest)</li> <li>- Create backlog</li> <li>- Suggest database design</li> </ul>

### Meeting Two

Date	9 <sup>th</sup> February
Time	27minutes and 30 seconds
Attendance	Han Nadi Aung, Kaung Myat Htun, Moe Thet Ko, Nyan Lin Htet, Thaw Zin Lin Myat, Thin Htet San, Zwe Yu Ya Kyaw Zin Oo
Absent	none
Discussion/Activities	<ul style="list-style-type: none"> <li>- Explain and discuss about database design and attributes</li> <li>- Explain the created page design and discuss</li> <li>- Explain about the created backlog</li> <li>- Select the database design</li> </ul>
Task Achieved	<ul style="list-style-type: none"> <li>- Accepted database design and attributes</li> <li>- Accepted page design and discuss</li> <li>- Created backlog</li> </ul>
New Tasks	<ul style="list-style-type: none"> <li>- Create database</li> <li>- Create Home page, Search page and Student submission page</li> <li>- Update database design and its attributes</li> </ul>

### **Meeting Three**

Date	16 <sup>th</sup> February
Time	36 minutes and 48 seconds
Attendance	Han Nadi Aung, Kaung Myat Htun, Moe Thet Ko, Nyan Lin Htet, Thaw Zin Lin Myat, Thin Htet San, Zwe Yu Ya Kyaw Zin Oo
Absent	None
Discussion/Activities	<ul style="list-style-type: none"> <li>- Show and discuss about the created Search Page and Profile Page together with their functions</li> <li>- Discuss about some of the sprint creation</li> <li>- Discuss about created article page</li> <li>- Discuss about the login page together with logout function</li> <li>- Discuss about the home page, register page and log in page</li> </ul>
Task Achieved	<ul style="list-style-type: none"> <li>- Search Page</li> <li>- Profile page</li> <li>- Article page</li> <li>- Home page</li> <li>- Register page</li> <li>- Login page together with logout function</li> </ul>
New Tasks	<ul style="list-style-type: none"> <li>- Update database design and attributes</li> <li>- Draw admin page design</li> </ul>

### **Meeting Four**

Date	19 <sup>th</sup> February
Time	25 minutes and 20 seconds
Attendance	Han Nadi Aung, Kaung Myat Htun, Moe Thet Ko, Nyan Lin Htet, Thaw Zin Lin Myat, Thin Htet San, Zwe Yu Ya Kyaw Zin Oo
Absent	None
Discussion/Activities	<ul style="list-style-type: none"> <li>- Discuss about the functions of the pages of admin point of view</li> <li>- Discuss about the created submission page</li> <li>- Discuss about the security function of the website</li> </ul>
Task Achieved	<ul style="list-style-type: none"> <li>- Updated database design and attributes</li> <li>- Created submission page</li> <li>- Added security features for login and others</li> </ul>
New Tasks	None

## **Meeting Five**

Date	21 <sup>st</sup> February
Time	46minutes and 1 second
Attendance	Han Nadi Aung, Kaung Myat Htun, Moe Thet Ko, Nyan Lin Htet, Thaw Zin Lin Myat, Thin Htet San, Zwe Yu Ya Kyaw Zin Oo
Absent	None
Discussion/Activities	<ul style="list-style-type: none"><li>- Show and discuss about page designs of the admin point of view (different prototypes)</li><li>- Select page designs for admin point of view from the prototypes</li></ul>
Task Achieved	<ul style="list-style-type: none"><li>- Created page designs for the admin point of view</li></ul>
New Tasks	<ul style="list-style-type: none"><li>- Create pages for the admin point of view</li><li>- Draw and suggest page design for Marketing Manager point of view</li></ul>

## **Meeting Six**

Date	23 <sup>rd</sup> February
Time	30 minutes and 37seconds
Attendance	Han Nadi Aung, Kaung Myat Htun, Moe Thet Ko, Nyan Lin Htet, Thaw Zin Lin Myat, Thin Htet San, Zwe Yu Ya Kyaw Zin Oo
Absent	None
Discussion/Activities	<ul style="list-style-type: none"><li>- Discuss about Documentation design</li><li>- Discuss about the embedded functions such as reports, bar chart and etc in the created pages for the Admin point of view</li><li>- Discuss what are the function for the pages of Marketing Manager point of view</li><li>- Fix some of the page designs</li></ul>
Task Achieved	none
New Tasks	None

## **Meeting Seven**

Date	26 <sup>th</sup> February
Time	13 minutes and 44 seconds
Attendance	Han Nadi Aung, Kaung Myat Htun, Moe Thet Ko, Nyan Lin Htet, Thaw Zin Lin Myat, Thin Htet San, Zwe Yu Ya Kyaw Zin Oo
Absent	None
Discussion/Activities	<ul style="list-style-type: none"><li>- What to do this week</li><li>- Discuss about the fully completed pages of the admin view</li><li>- Discuss about page design for the Marketing Manager view</li><li>- Select page designs of the Marketing Manager view from prototypes</li></ul>

Task Achieved	<ul style="list-style-type: none"> <li>- Created pages for Admin view.</li> <li>- Selected page designs for the Marketing Manager view</li> </ul>
New Tasks	<ul style="list-style-type: none"> <li>- Create pages for the Marketing Manager view</li> </ul>

### Meeting Eight

Date	1 <sup>st</sup> March
Time	38minutes and 50 seconds
Attendance	Han Nadi Aung, Kaung Myat Htun, Moe Thet Ko, Nyan Lin Htet, Thaw Zin Lin Myat, Thin Htet San, Zwe Yu Ya Kyaw Zin Oo
Absent	None
Discussion/Activities	<ul style="list-style-type: none"> <li>- Test plan and test log justification</li> <li>- Discuss about documentation</li> <li>- Discuss about created pages of the Marketing Manager page and its function</li> </ul>
Task Achieved	<ul style="list-style-type: none"> <li>- Created Pages for the Marketing Manager view</li> </ul>
New Tasks	<ul style="list-style-type: none"> <li>- To add view count function to the website</li> </ul>

### Meeting Nine

Date	4 <sup>th</sup> March
Time	21 minutes and 41 seconds
Attendance	Han Nadi Aung, Kaung Myat Htun, Moe Thet Ko, Nyan Lin Htet, Thaw Zin Lin Myat, Thin Htet San, Zwe Yu Ya Kyaw Zin Oo
Absent	None
Discussion/Activities	<ul style="list-style-type: none"> <li>- Discuss about the functions of the pages of the Marketing Coordinator page</li> <li>- Show the view count functions</li> </ul>
Task Achieved	<ul style="list-style-type: none"> <li>- Added the view count functions into the website</li> </ul>
New Tasks	<ul style="list-style-type: none"> <li>- Draw page designs for the Marketing Coordinator page</li> </ul>

### Meeting Ten

Date	6 <sup>th</sup> March
Time	30minutes and 46seconds
Attendance	Han Nadi Aung, Kaung Myat Htun, Moe Thet Ko, Nyan Lin Htet, Thaw Zin Lin Myat, Thin Htet San, Zwe Yu Ya Kyaw Zin Oo
Absent	None
Discussion/Activities	<ul style="list-style-type: none"> <li>- Show and discuss about the created page designs for the Marketing Coordinator view</li> <li>- Select page designs for the Marketing Coordinator view</li> </ul>

Task Achieved	- Selected page designs for the Marketing Coordinator view
New Tasks	- Create pages for the marketing Coordinator view

### Meeting Eleven

Date	11 <sup>th</sup> March
Time	35miutes and 3seconds
Attendance	Han Nadi Aung, Kaung Myat Htun, Moe Thet Ko, Nyan Lin Htet, Thaw Zin Lin Myat, Thin Htet San, Zwe Yu Ya Kyaw Zin Oo
Absent	None
Discussion/Activities	<ul style="list-style-type: none"> <li>- Discuss about the created pages for the Marketing Coordinator view</li> <li>- Discuss about the leftover functions of the project</li> </ul>
Task Achieved	<ul style="list-style-type: none"> <li>- Created most functions for the pages of the Marketing Coordinator view</li> </ul>
New Tasks	<ul style="list-style-type: none"> <li>- Add mail sending function to the website</li> <li>- Complete the creation of the pages of the Marketing Coordinator view</li> </ul>

### Meeting Twelve

Date	17 <sup>th</sup> March
Time	20minutes and 25seconds
Attendance	Han Nadi Aung, Kaung Myat Htun, Moe Thet Ko, Nyan Lin Htet, Thaw Zin Lin Myat, Thin Htet San, Zwe Yu Ya Kyaw Zin Oo
Absent	None
Discussion/Activities	<ul style="list-style-type: none"> <li>- Discuss about the created Marketing Coordinator page</li> <li>- Discuss about the created mail sending function</li> </ul>
Task Achieved	<ul style="list-style-type: none"> <li>- Added mail sending function to the website</li> <li>- Complete the creation of the pages of Marketing Coordinator view</li> <li>- Final product has been delivered</li> </ul>
New Tasks	None

## Product Backlog

Product backlogs are created before the project after we have discussed them with our team members so that we can prioritize the tasks which are needed and be able to give the functioning product in each sprint. The following tables have listed the tasks that are needed and categorize them according to their importance in this project. The product backlog contains two parts user stories and tasks. Each task is associated with many user stories as each task has many things to do to complete and it has many functions which can complete many user stories.

## **User Stories**

User stories are the framework which shows what functions are needed for the system and the functions that are needed for the system. In this project, Productthe owner, Scrum Master and Developing Team decided to use “As a <user>, I want to have <functions> so that <reason>” which is a standard format for writing user stories. Those user stories are created by both the Scrum Master and the Product owner.

### **Admin**

- As an admin, I want to be able to assign roles to manager and coordinator so that no one will be able to assign those roles which will secure the functions of higher roles.
- As an admin, I want to be able to know the details of the articles such as view count, writer etc. so that I can give the report
- As an admin, I want to be able to maintain any kind of system data such as assigning the date of closure to the Magazine so that I can manage the system as an admin

### **Marketing Manager**

- As a Marketing Manager, I want to be able to see any kinds of changes in tasks being done by the users so that I can oversee the whole process of the system
- As a Marketing Manager, I want to be able to view the contributions that has been accepted by the Marketing Coordinator so that I can see the contributions of the students
- As a Marketing Manager, I want to be able to download the contributions into zip files so that I can transfer them onto my device
- As a Marketing Manager, I want to be able to see the analysis report so that I can plan for the upcoming future
- As a Marketing Manager, I want to be able to see the guest account of each faculty so that I can manage the guest account

### **Marketing Coordinator**

- As a Marketing Coordinator, I want to have access to the system so that I can view the contributions of the students of my faculty
- As a Marketing Coordinator, I want to be able to check, comment and edit the students' contributions so that they can learn more and I can add theirs to the magazine

- As a Marketing Coordinator, I want to be able to see the statistical analysis report so that I can report it to the Marketing Manager.
- As a Marketing Coordinator, I want to be able to download the Word document of the student's contribution so I can save it on my device
- As a Marketing Coordinator, I want to know the details of the one who submitted contributions and also be able to find them so that I can easily find the students
- As a Marketing Coordinator, I wanted to get notified when a student submitted the contributions so that I could quickly reply and comment
- As a Marketing Coordinator, I wanted to get notified when I haven't checked a student's submission within 14 days after submission so that I can comment and add it to the magazine before the deadline

## **Students**

- As a student, I want to have access to the system so that I can upload one or more contributions as work documents for the magazine
- As a student, I want to be able to upload high-quality images so that they can enhance the Word documents
- As a student, I want to be able to view the monthly magazine so that I can read other's contributions and gain knowledge and ideas about the contributions
- As a student, I want to get notified when my submitted documents have been commented on so that I can know if I am allowed

## **Guests**

- As a guest, I want to be able to register an account so that I can read all the selected articles

## **Users (not as a separate user account but as the requirement for all users)**

- As a user, I want to be able to register the account so that I can have access to the page
- As a user, I want to be able to login to my account so that I can interact with the website
- As a user, I want to be able to log out of the account so that I can use another account to log in

- As a user, I want to be able to view the page on any device so that I can view them anywhere and anytime making it efficient
- As a user, I want to be able to see the view count on articles so that I can know which articles are famous
- As a user, I want to be able to edit my profile so that I can make some changes to my information (only for students and guests)
- As a user, I want to be able to categorize the magazines according to their published date so that I can find them easily
- As a user, I want to be able to find the magazine or article by their name or writer's name by using the search bar so that I can find what I want to read efficiently

## Tasks

The tasks are shown below and categorized according to their importance.

Priorities	Tasks
High level	<ul style="list-style-type: none"> <li>- Suggest database Design</li> <li>- Suggest Attributes</li> <li>- Draw and suggest Home page, Search page and Student submission page</li> <li>- Update database design and improve it</li> <li>- Create the database (by coding)</li> <li>- Create Home Page (by coding)</li> <li>- Create Register Page</li> <li>- Create Login page together with logout function</li> <li>- Create Profile page (by coding)</li> <li>- Create article page</li> <li>- Create Search page</li> <li>- Create submission page</li> <li>- Add Security features</li> </ul>
Middle level	<ul style="list-style-type: none"> <li>- Draw sand suggest Admin page</li> <li>- Create Admin Page with its functions</li> </ul>

	<ul style="list-style-type: none"> <li>- Draw and suggest Marketing Manager page</li> <li>- Create Marketing Manager page</li> <li>- Add categorizing function in marketing manager</li> <li>- Create analysis report function</li> <li>- Add view count function on each articles</li> </ul>
Low level	<ul style="list-style-type: none"> <li>- Draw and suggest Marketing Coordinator page</li> <li>- Create Marketing Coordinator page</li> <li>- Add Commenting Functions</li> <li>- Make the articles available to download in zip files</li> <li>- Add mail sending function into the website</li> <li>- Add Categorizing function in Marketing Coordinator page</li> </ul>

## Sprints

After the backlogs were created, scrum master Moe Thet Ko and the Developer team discussed and created sprints according to the goals that Product Owner Thaw Zin Lin Myat had set up for each sprint to make sure the tasks were efficient and finished on time. Scrum master assigns tasks to each team member, and manages and oversees the sprint so that each team member can know which tasks they have been assigned, what tasks have been finished, which tasks are left, which tasks are on testing and which tasks have been done so that everyone can do the task efficiently without needing to ask. Each sprint takes two weeks. There are three sprints in total for this project. So, this project takes about six weeks. We have two meetings in one week and first meeting, which is at the beginning of the week is to discuss what tasks to do and the second meeting which is on the last day of the week to know which tasks have been finished.

The tasks that are needed to be done

The tasks that members have been currently doing

The tasks that have been done

The tasks that has been done and needed to be test to know that it work well or not

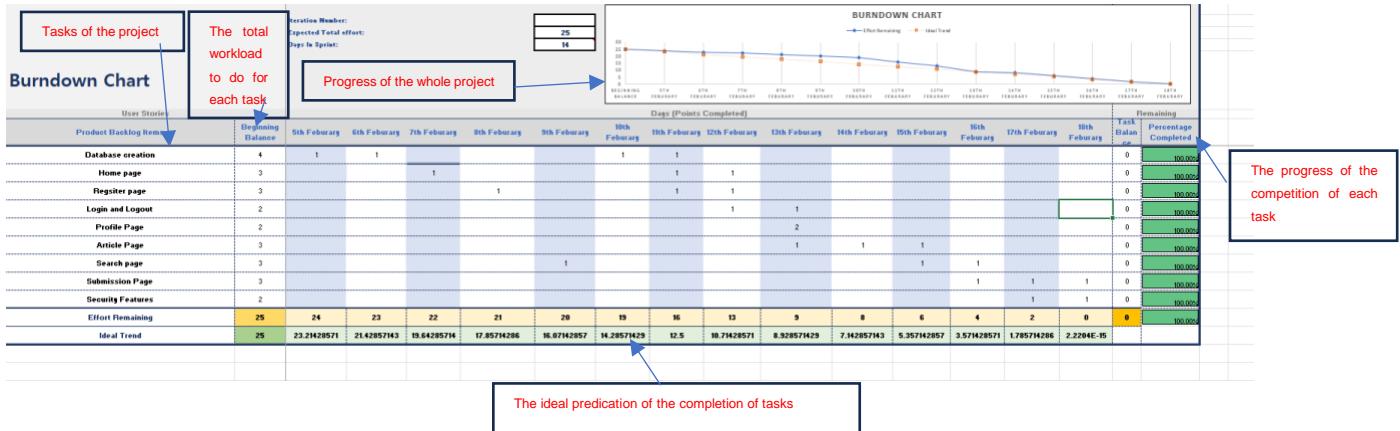
Assigned team member

## Burndown Chart

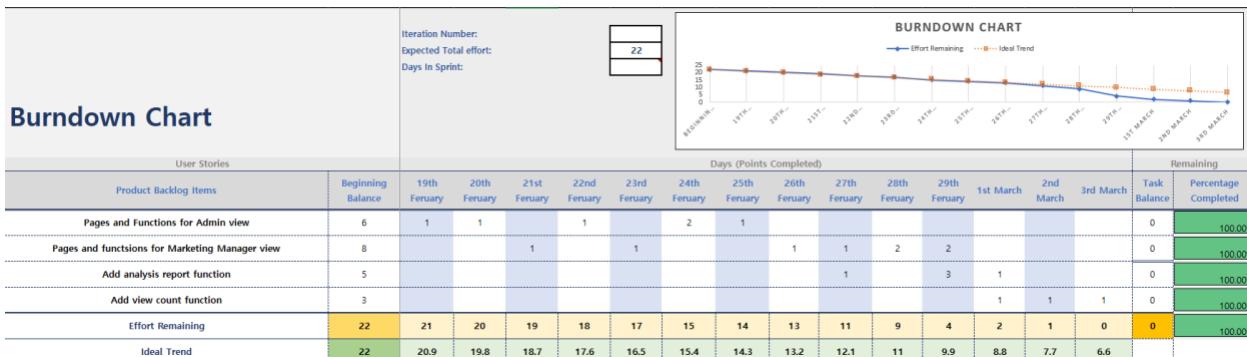
In the process of working on the project, we have created three burndown charts for each sprint created. A Burndown chart is a kind of road map which shows the graphical representation of the progress of the project development. By using the burndown chart, we can know how many tasks we have left and predict when each of the tasks will be done. (Support, 2024) (Keup, 2022)

To create the burndown chart, the scrum master uses all the data he has gained from managing the sprints. He uses Excel to create the burndown chart. He does not add all tasks and user stories into the burndown chart, instead combines them into its responsive main tasks and manages them. In the Y axis, he has added tasks and dates for the X axis. The following are the burndown charts for the whole project.

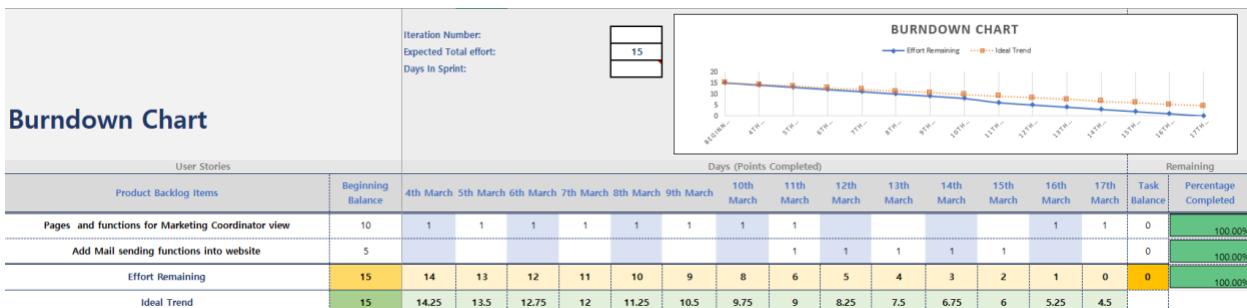
### Sprint 1 burndown chart



## Sprint 2 burndown chart



## Sprint 3 burndown chart



# Database

# Database Technology

# PGSQL

PostgreSQL is an open-source object-related database system which utilizes SQL language and extends it with the combination of many features which safely store and scale the most complex data workloads. The PostgreSQL originated back in 1986 as part of the POSTGRES project at the University of California at Berkeley and consists of more than 35 years, worth of active development on the core platform.

The reason for using PGSQL is that it contains many features which focus on helping the developers build applications, it also consists of administrators to secure the data integrity and build a fault-tolerant system (A system which can function despite faults being present). It's also adaptable in managing the data whether the size of the database.

PostgreSQL tries to conform with the SQL standard where such conformance does not contradict traditional features or could lead to poor architectural decisions. Many of the features

required by the SQL standard are supported, though sometimes with slightly differing syntax or function. Further moves towards conformance can be expected over time. As of version 16, PostgreSQL conforms to at least 170 of the 179 features for SQL:2023 Core conformance. As of this writing, no relational database meets full functional conformance with this standard.

(IBM, 2024)

## SQL

The database is created by using SQL codes to have a good functional database for the current project. Our Database creators: Thaw Zin Linn Myat and Kaung Myat Htun use the following to create the database.

## Datatype

Datatype in a database defines what kinds of data can be stored in a column or field. They specify what kinds of data such as numbers, words etc. For this project, they use Primitives, Structured, Documents, Geometry and Customization.

Primitive Datatype includes integer, Numeric, String and Boolean. Integer is for whole numbers, Numeric is decimals, Strings is for Text and Booleans is true/false.

Structure Include Date/Time, Array, Range/Multirange and UUID. Date/Time store information about the date. Arrays are a collection of elements. Range/Multirange is a continuous range of values. UUIDS are unique identifiers.

Documents include JSON/JSONB (JavaScript Object Notation), XML (Extensible Markup Language) and Key-value (Hstore). JSON/JSONB is the data exchange which is made to be able to be understandable by both humans and machines. XML and Key-value (Hstore) are also alike but have different advantages.

Geometry includes points, lines, circles, and polygons.

Customizations include Composite and Custom Types. Composite combines many different data types into complex ones and Custom types create special data types for special functions and operations.

## Data Integrity

Data integrity is some kind of code that sets rules for data to how to interact with each other and what cannot be done. Data Integrity includes UNIQUE which means that nothing in the

column must match with each other, Not null which means that the value cannot be empty, Primary key, Foreign Key. Exclusion Constraints which set rules like number cannot exceed 100 in that column, Explicit Locks which enable to manually control specific row or tables and Advisory Locks provide ways for data to flow without restriction.

## **Concurrency and Performance**

Concurrency is the ability to perform multiple tasks at the same time and can move from tasks which take too much time to easy tasks which keep the CPU busy all the time and keep the performance at best all the time.

This includes indexing, Advanced Indexing Techniques, Sophisticated Query Planner/Optimizer, and Index-Only Scans. Multicolumn Statistics, Transactions, Multi-Version Concurrency Control (MVCC), Parallelization of read Queries and building B-Tree indexes, Table partitioning, Transaction Isolation Levels and Just in time (JIT) Compilation of Expressions.

We use B-tree, Multicolumn indexes, Expressions, and partial indexes for indexing and use GiST (Generalized Search Tree), SP-GiST (Space Partitioned GiST), KNN-GiST (K Nearest Neighbor GiST), GIN (Generalized Inverted Index), BRIN (Bitmap Index), Covering Indexes and Bloom filters for advance Indexing Techniques for the database in this project.

## **Reliability and Disaster Recovery**

Reliability means making the system able to run even if there are failures in the system by minimizing the downtime. Disaster Recovery is a function for recovering from any type of natural disaster damage.

We use Write-Ahead Logging (WAL) to have persistence even if the system crashes or a power outage happens. This WAL writes the log record before the data is updated which helps in recovering even if there is failure in the system.

We use Asynchronous Replication which can update on the secondary server first then to the primary server and Synchronous Replication which copies all the primary data into the secondary server in real-time. We also use Logical which replicates the changes in the SQL statement to be able to recover from data loss.

We also use Right in Time Recover (PITR) to create a data restoration point so that the system can restore to its working conditions which minimizes the downtime.

We use Tablespaces as it can enhance the performance and security of the system. Tablespaces enable us to organize the related tables into one for efficient management, do parallel processing, assign different controls to different groups and able to freely move or add according to need of the storage.

## **Security**

For the security of the database, we use authentication methods such as GSSAPI, SSPI, LDAP, SCRAM-SHA-256, Certificate, and more to not allow anyone who is not authorized to edit or even view the database structure. We also use Robust access-control system which can define user roles and give permission to use certain functions in the database. Column and Row-level security which can let the user see only specific row or specific column is also used for the security of Database. We also make our database to have multi-factor authentication which can let the user login with their password.

## **Extensibility**

This means using or integrating with other kinds of extensions or third-party software and system to overcome the capability limit of the core functions of the database. We use stored functions and procedures which store reusable blocks of code, Procedural Language such as PL/pgSQL, Perl, Python, and Tcl. There are also other languages available through extensions such as Java, JavaScript (V8), R, Lu, and Rust. SQL/JSON allows the constructing of specific data from the JSON Document by using path expressions. Foreign data wrappers are like a bridge which connects to other databases or streams with a standard SQL interface. We also added Customizable storages interface for tables so that we can define how data will be stored and used for specific tables. There are also many databases extension that can provide additional functionality, including PostGIS.

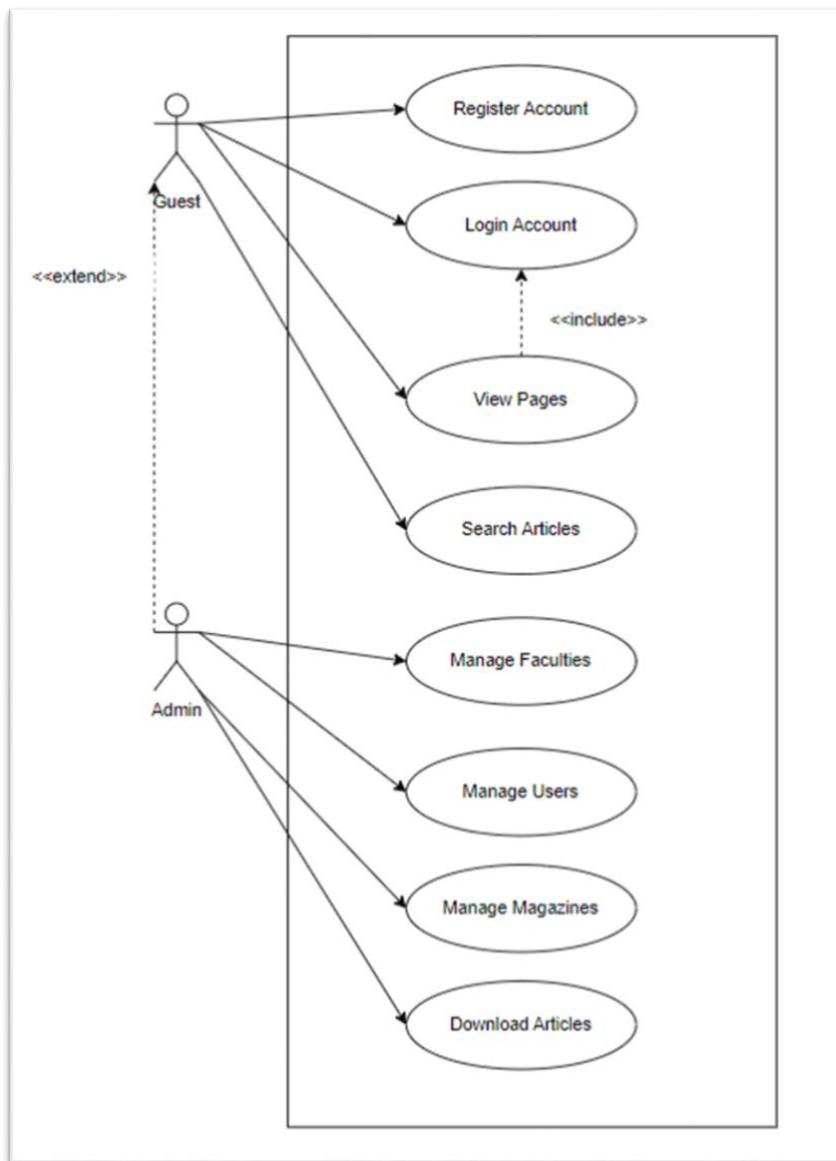
# Functionalities

## UML Diagram

### Use Case Diagram

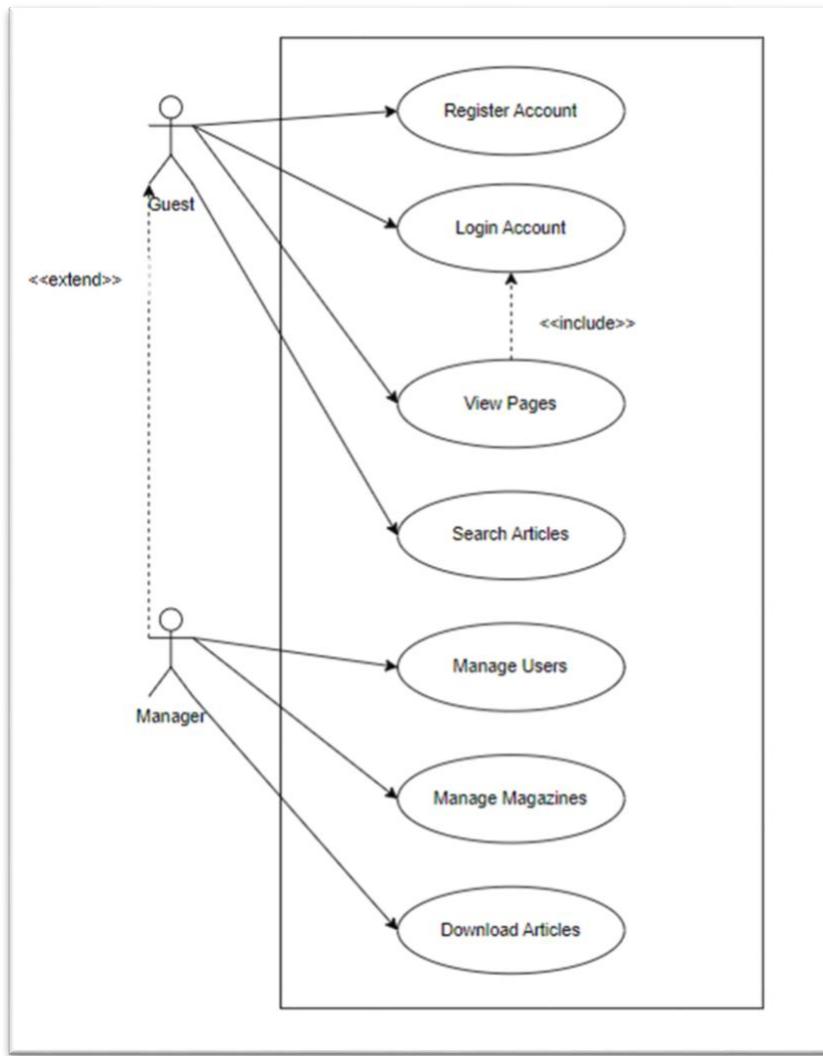
In all the use case diagram for each user type, Guest user is included because all of the users can do that functions that the guest are able to do. Guests are able to register and create an account so that they can log in and view pages, search for articles and read the articles that they have been permitted to read.

#### Admin



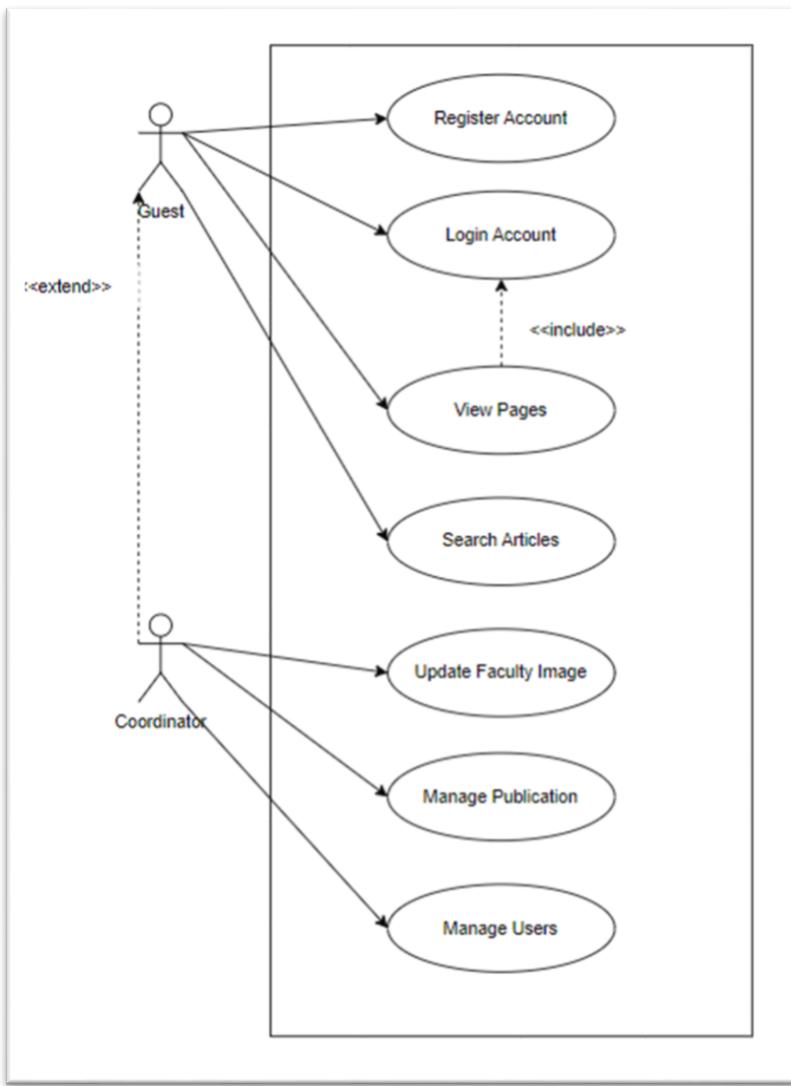
Admin can do the functions of the Guest user type permitted actions. Admin are permitted to manage the facilities such as adding new faculties, adding new information etc., manage the users which involve assigning user types, giving permission to some functions etc., manage the magazine such as assigning deadlines for the magazine. They are also allow to be able to download the articles into zip file to store in their device.

### **Marketing Manager**



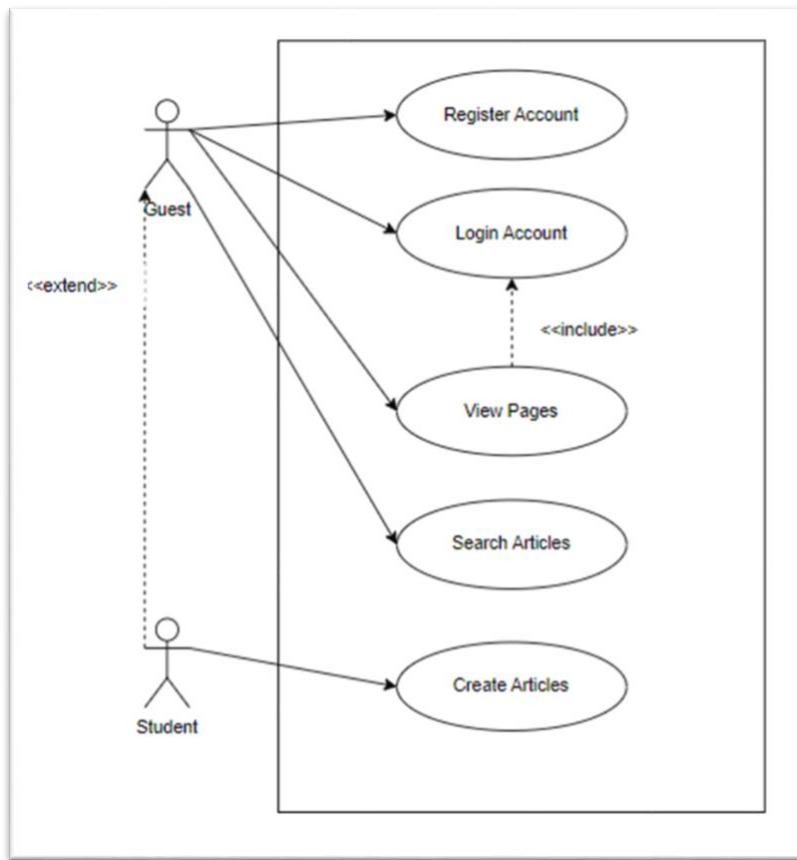
Marketing manager can also manage the user but not like admin. He can only assign user types for the Marketing Coordinator, students, and Guests. They can manage the magazine such as viewing them and who permitted the articles and who wrote them in detail. They can download the articles as zip files and store them for further use.

### **Marketing Coordinator**



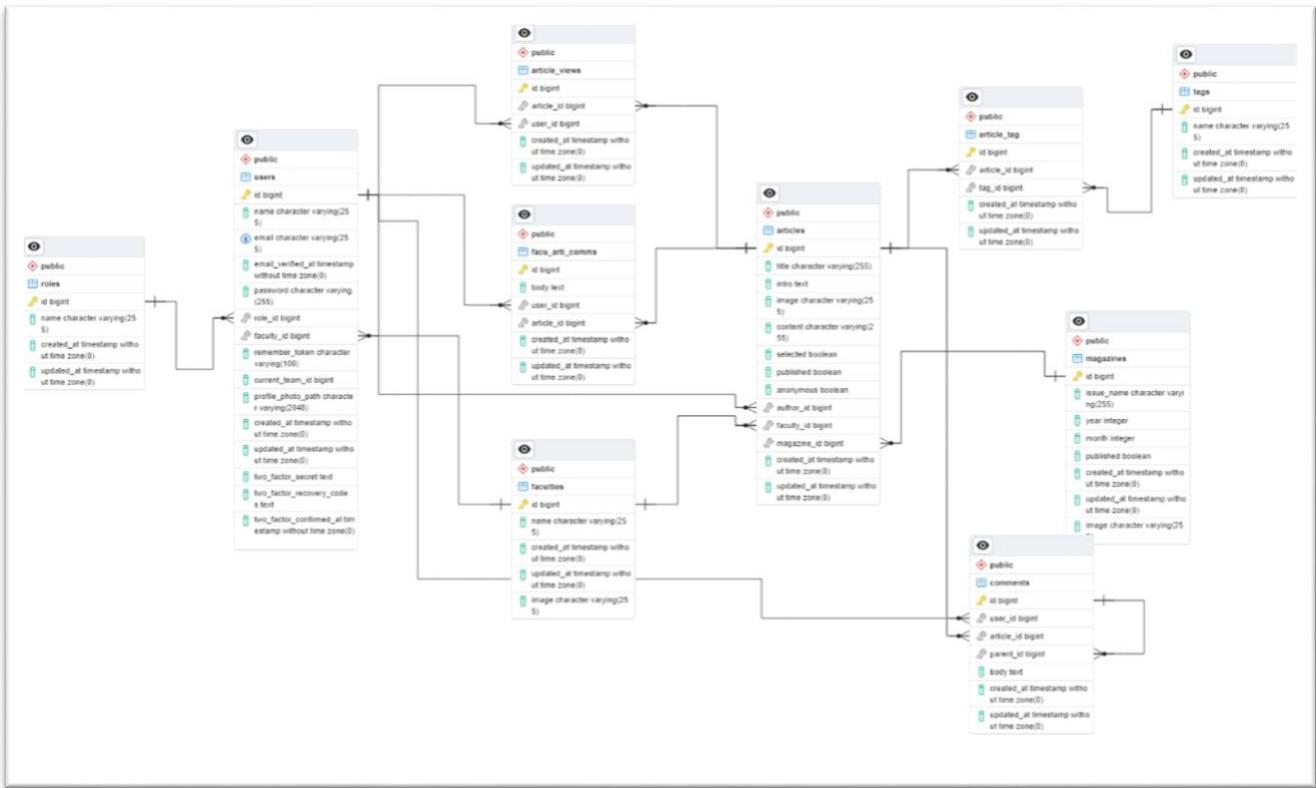
Marketing Coordinator can manage most about their faculty such as changing their faculty image or updating their information. They are also able to comment on the publication uploaded by the students of their faculty before finally uploaded to the website. They will be able to edit on the publication of their faculty's students. They will be able to manage the users of their faculty such as students and guests.

## **Student**



Students can create articles by uploading their files and images to the Marketing Coordinator first. After Coordinator has permitted, the articles were published on the website.

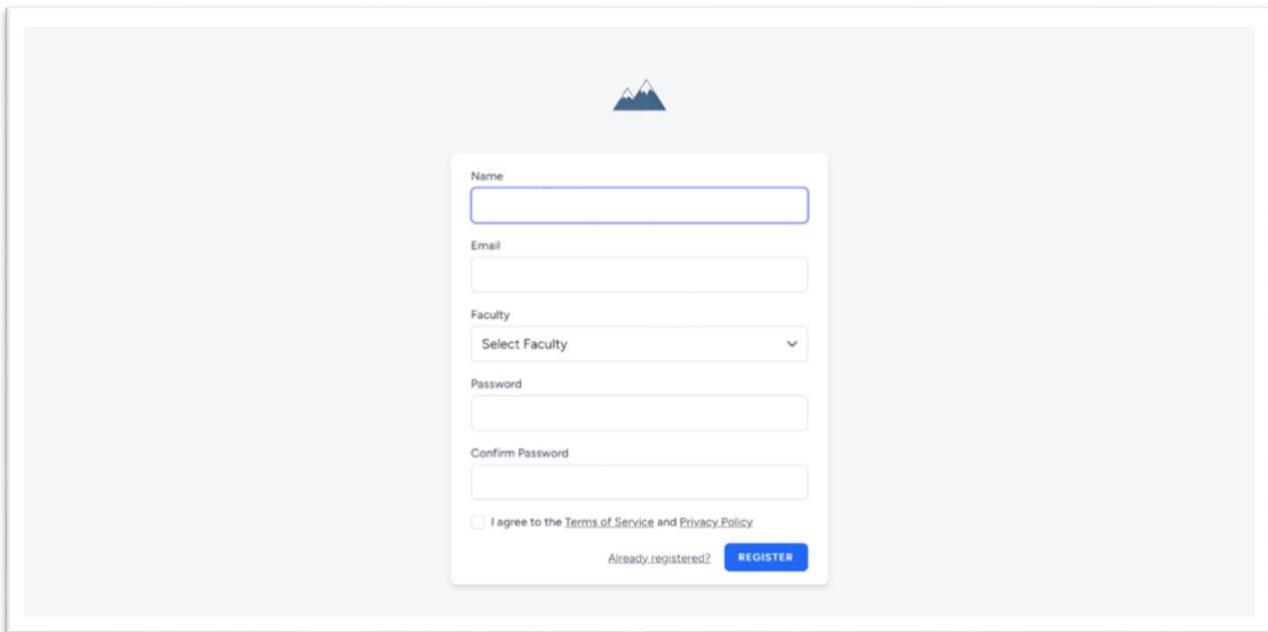
## Class Diagram



## Core Functions

### Register function

#### *Register Page*



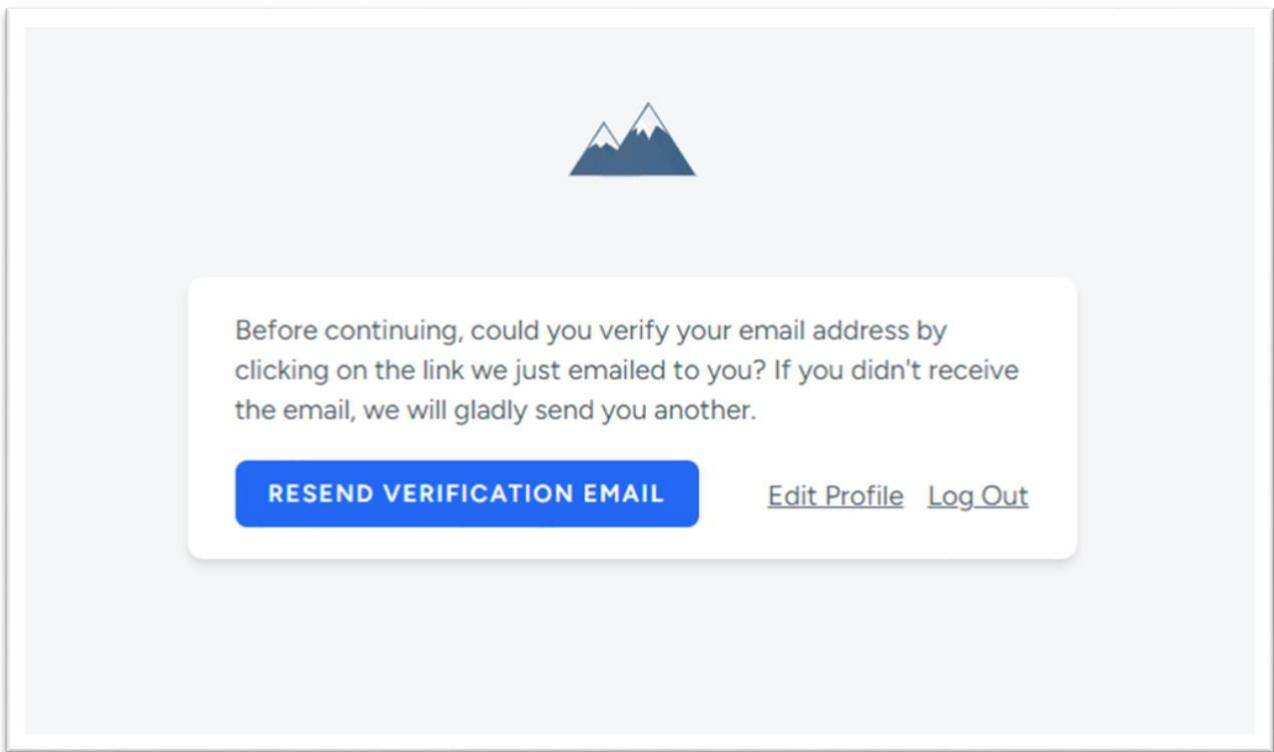
The screenshot shows a registration form. At the top center is a logo depicting three stylized mountains. Below the logo is a white rectangular form with rounded corners. The form contains the following fields:

- Name: A text input field with a blue outline.
- Email: A text input field.
- Faculty: A dropdown menu labeled "Select Faculty".
- Password: A text input field.
- Confirm Password: A text input field.

At the bottom left of the form is a small checkbox followed by the text "I agree to the [Terms of Service](#) and [Privacy Policy](#)". To the right of the checkbox are two buttons: a light blue button labeled "Already registered?" and a dark blue button labeled "REGISTER".

The register function is the page where users register themselves for an account to login to the website either as students or readers. To register, the users are required to fill in each respective field along with their name & email. Then the users are indicated to create a password for their account. A check box “I agree to terms of service and Privacy Policy” is also included with links.

### **Email Verification function**



After the user clicked the 'register' button, the following pop-up image will be shown instructing the user to verify their email. The email verification will be directly sent to the user's email.

## UniArctic

**Hello!**

Please click the button below to verify your email address.

**Verify Email Address**

If you did not create an account, no further action is required.

Regards,  
UniArctic

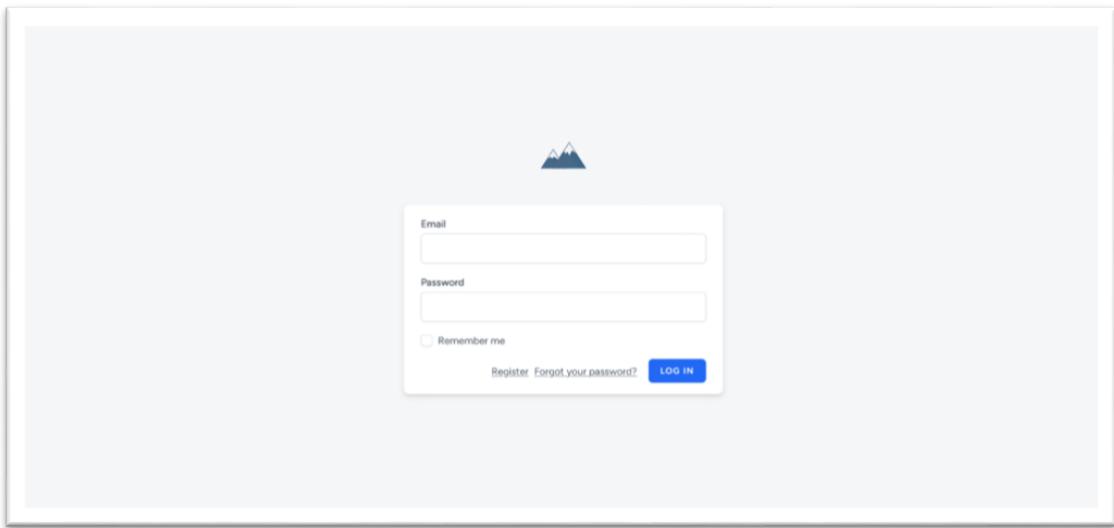
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If you're having trouble clicking the "Verify Email Address" button, copy and paste the URL below into your web browser: <http://127.0.0.1:8000/email/verify/24/6a56cdb4e42dcadfb5dd6f752b1bc9f02bc3c684?expires=1710052502&signature=4b17accee9ba53cf178eb40e294a91a696cda5236d37c7efb1f9fac9d2306d83>

By confirming the verification, the user will be successfully registered and will be redirected to the login page.

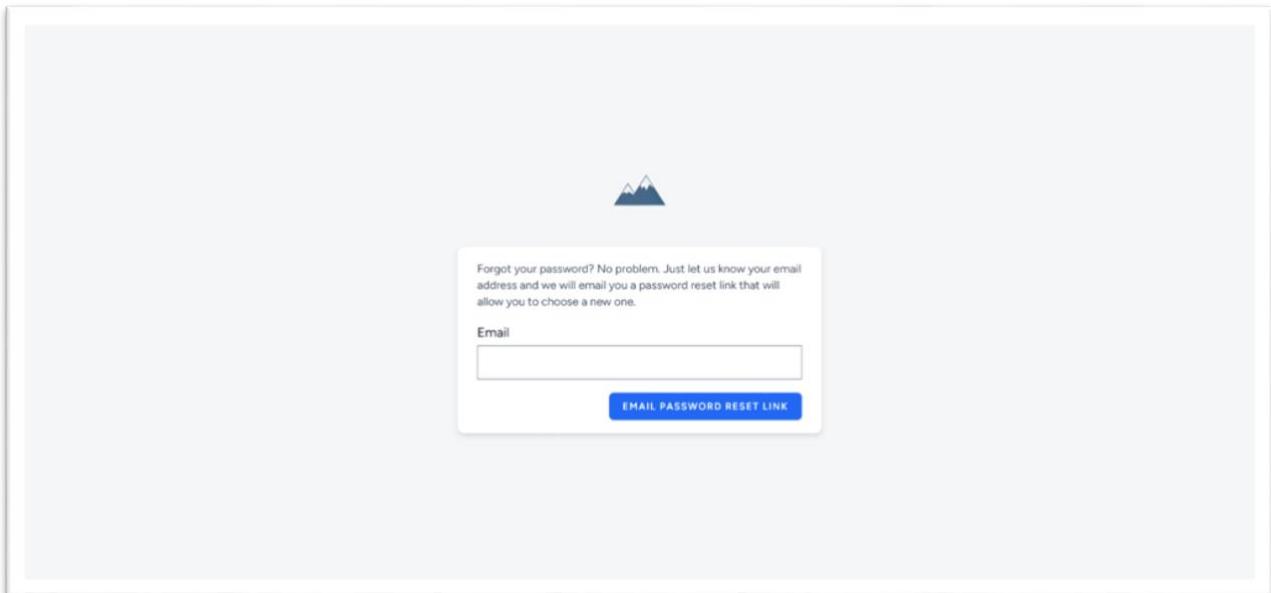
## **Login function**

### ***Login page***



After the user is redirected to the login page, they will be able to login with their emails and passwords. In the login pop up, there is also a remember me feature so that the user doesn't need to login again the next time they open the website. Along with the link to the 'register' and 'forgot your password'.

### ***Forgot password function***



Forgot password function is where the user can retrieve their account in case they have forgotten the given password for that account. This process is done by the email verification code.

## Article submit Page

### Create Article

The screenshot shows a web-based article submission form. At the top, there are input fields for 'Title' and 'Intro'. Below these, a section titled 'Choose Tags' contains ten genre options: Comedy, Thriller, Historical Fiction, Literature, Science, Mystery, Science Fiction, Horror, Fantasy, and Fashion. Each option has a small checkbox next to it. Underneath the tags, there are three buttons: 'IMAGE (.JPEG/.JPG/.PNG)', 'CONTENT (.DOCX)', and '.docx file'. A note below the buttons states, 'Today is March 10. 17th March is the deadline for submitting articles for the current month.' The next section, 'Choose the Issue', includes a dropdown menu set to 'omnis March 2024'. A 'Submit as Anonymous' toggle switch is turned off. At the bottom left, a checkbox is checked, indicating agreement to 'Terms of Service and Privacy Policy'. A blue 'SUBMIT' button is located at the bottom center.

The submit page is where the users of the website can create articles by themselves which will be uploaded into the database of the website. To create an article, the users are required to have a title for the article along with the intro which briefly describes the summary of the article. Then, the users must choose a tag for the genre of the article. For the Photo and detail of the article, a file upload for image and doc file path is given for the users to uploads files on to. The list of issues is given for the users to choose and submit as anonymous function is added for the users if they desire to upload the article as an anonymous. A check box is also added for the terms & condition and privacy policy along with the links.

### Preview (credentials filled)

<credentials filled photo for submit page>

After that, the user can successfully upload the article and the following article can be viewed in the article page.

## Create Monthly Issue (Marketing manager)

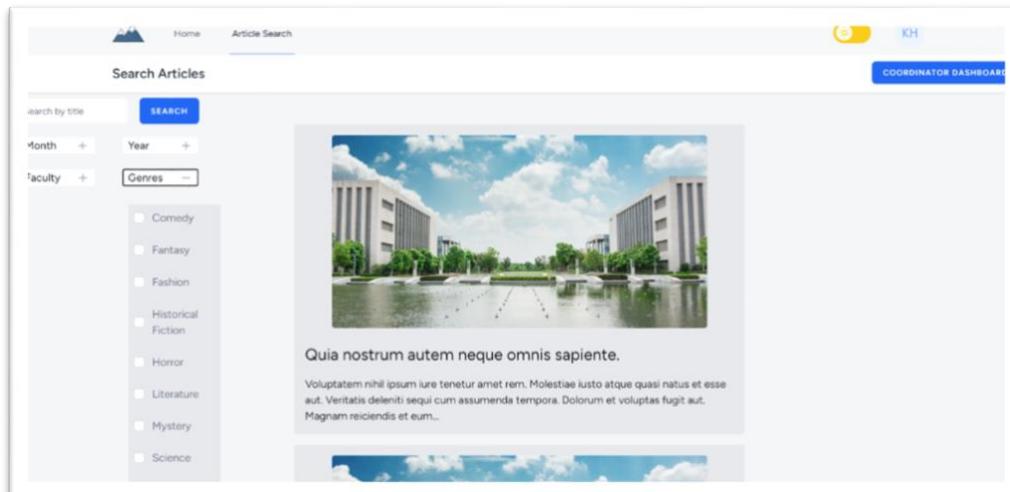


The image shows a modal dialog titled "Create a Monthly Issues". It has a "Issue Name:" input field which is empty and highlighted with a blue border. A tooltip message "Please fill out this field." is displayed above the input field. Below the input field is a placeholder "Image Preview" with a small thumbnail image. At the bottom left is a blue button labeled "IMAGE(.JPG/.JPEG/.PNG)". At the bottom right is a blue "SAVE" button.

This is the create monthly issue which is part of the submit function that is carried out by the marketing manager. The marketing manager can create issues that will be submitted into the monthly issue list in which many articles are included.

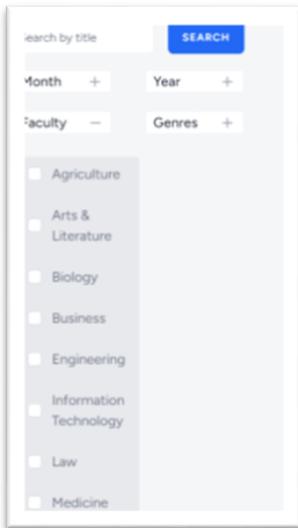
## Search function

### Article search page



The image shows the "Article Search" page. At the top, there are navigation links for "Home" and "COORDINATOR DASHBOARD". On the left, there is a sidebar with "Search Articles" and "SEARCH" buttons. Below these are filters for "Month", "Year", "Faculty", and "Genres". The "Genres" filter is expanded, showing options like Comedy, Fantasy, Fashion, Historical Fiction, Horror, Literature, Mystery, and Science. To the right of the sidebar is a large image of a modern building complex with a fountain. Below the image is a snippet of text: "Quia nostrum autem neque omnis sapiente. Voluptatem nihil ipsum iure tenetur amet rem. Molestiae iusto atque quasi natus et esse aut. Veritatis deleniti sequi cum assumenda tempora. Dolorum et voluptas fugit aut. Magnam reiciendis et eum..".

The search function is where the users of the website can search up any articles that has been uploaded on the website. There is a search bar for the users to search up articles by alphabetical starting word or by full name.



There is also a filter option, where users can filter the article upload time by year & months or by faculty & genres.

### ***User search (marketing coordinator)***

A screenshot of a "Users Management" page. At the top center is the page title "Users Management". To the right is a small mountain icon and a "Home" link. Below the title is a table titled "Edit users Role". The table has columns: Name, Email, Change Role, Faculty, Account Creation Date, Articles Upload, and Check Articles. One row is visible, showing "Kira Langosh" as the Name, "maggio.ephraim@example.com" as the Email, "Guest" as the Change Role, "Engineering" as the Faculty, "2024-03-10 06:02:53" as the Account Creation Date, "0" as the Articles Upload, and a blue "CHECK" button. At the bottom of the page is a search bar with the placeholder "Search with Name". Inside the search bar, the name "kira" is typed, and a blue "SEARCH" button is to the right.

This search function is for the marketing coordinator where they can search users to either make them a student or editing the user's profile.

### ***Monthly Issue Search (marketing manager)***

Monthly issues status

Issue Name: TEST

Status: Unpublish

Issue Name	Year	Month	Publish	Article Count	Download Published
TEST	2024	April	Unpublished	0	<input type="button" value="DOWNLOAD AS ZIP"/>

This search function is for the marketing manager where they can search uploaded monthly issues to either download them or update them.

### ***Filter search (monthly issue)***

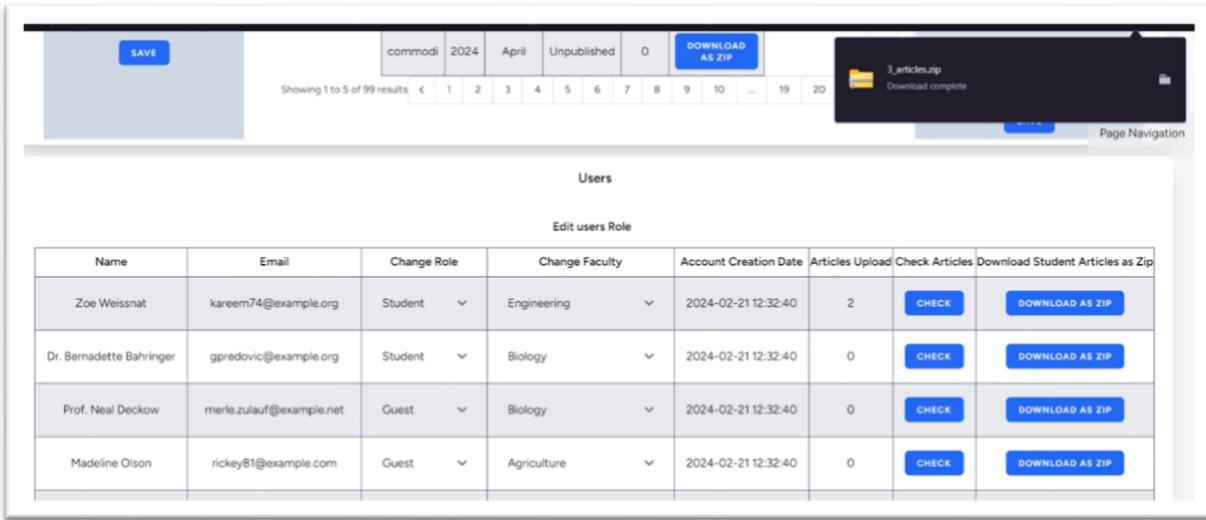
Status: Published

Issue Name	Year	Month	Publish	Article Count	Download Published
iure	2022	April	Published	1	<input type="button" value="DOWNLOAD AS ZIP"/>

This is the filter search for the monthly issue search function from the marketing manager page. The search is filtered by each status as in the publish/unpublished, year and month radio boxes.

## Download function

### Articles download (Admin & Marketing manager)



The screenshot shows a user management interface with a search bar at the top containing the text "commodi". Below the search bar is a navigation bar with links for "2024", "April", "Unpublished", and "0". A prominent blue button labeled "DOWNLOAD AS ZIP" is located on the right side of the navigation bar. Below this, a message box displays "3\_articles.zip" and "Download complete". The main content area is titled "Users" and contains a table with the following data:

Name	Email	Change Role	Change Faculty	Account Creation Date	Articles Upload	Check Articles	Download Student Articles as Zip
Zoe Weissnat	kareem74@example.org	Student	Engineering	2024-02-21 12:32:40	2	<button>CHECK</button>	<button>DOWNLOAD AS ZIP</button>
Dr. Bernadette Bahringer	gpredovic@example.org	Student	Biology	2024-02-21 12:32:40	0	<button>CHECK</button>	<button>DOWNLOAD AS ZIP</button>
Prof. Neal Deckow	merle.zulauf@example.net	Guest	Biology	2024-02-21 12:32:40	0	<button>CHECK</button>	<button>DOWNLOAD AS ZIP</button>
Madeline Olson	rickey81@example.com	Guest	Agriculture	2024-02-21 12:32:40	0	<button>CHECK</button>	<button>DOWNLOAD AS ZIP</button>

This is the articles download function from the user's profile list available for the admin and Marketing Manager. In this process, the marketing manager can download articles that has been submitted by the individual user.

## **Issues download (Admin & Marketing manager)**

34

Monthly Issues

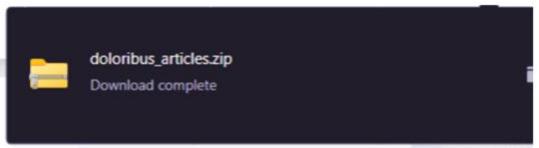
Monthly Issues Status

Issue Name:  **SEARCH**

Status:

Issue Name	Year	Month	Publish	Article Count	Download Published
doloribus	2024	April	Published	2	<b>DOWNLOAD AS ZIP</b>
dolorem	2022	August	Published	0	<b>DOWNLOAD AS ZIP</b>
dolorem	2023	July	Published	0	<b>DOWNLOAD AS ZIP</b>

oad Year Magazine



doloribus\_articles.zip  
Download complete

Make Changes to Monthly Issue

Monthly Issues:

Select an Issue

Issue Name:

Status:

Unpublish

Previous Image      Update Image      Image Preview



This is the function for the admin and marketing manager where they can download the submitted monthly issue list from the monthly issue list as zip files.

## Year magazine download (Admin)

The screenshot shows a web-based administrative interface for managing magazine issues. On the left, there's a search and filter section for 'Monthly Issues Status' with fields for 'Issue Name' (containing 'dolo'), 'Status' (set to 'Unpublish'), and dropdowns for 'Year' and 'Month'. Below this is a table listing four issues:

Issue Name	Year	Month	Publish	Article Count	Download
doloribus	2024	January	Unpublished	0	<a href="#">DOWNLOAD AS ZIP</a>
dolores	2023	February	Unpublished	0	<a href="#">DOWNLOAD AS ZIP</a>
dolorem	2024	February	Unpublished	1	<a href="#">DOWNLOAD AS ZIP</a>
doloremque	2022	September	Unpublished	1	<a href="#">DOWNLOAD AS ZIP</a>

Below the table is a button labeled 'download Year Magazine' and a dropdown menu set to '2022'. A large blue button at the bottom right says 'DOWNLOAD YEAR MAGAZINE .ZIP'.

On the right, a modal window titled 'Make Changes to Monthly Iss' is open. It shows a preview of a building facade and includes fields for 'Issue Name' (empty), 'Status' (set to 'Unpublish'), and a file input field for 'IMAGE(.JPEG/.JPG/.PNG)'. There are also 'Previous Image' and 'Update Image' buttons, and a 'Page Navig.' link at the top right of the modal.

This is the function where the marketing manager can download the yearly magazine where the articles submitted within the particular year will be summarized into a .zip file in which the marketing manager can download.

## Admin function

### Marketing Coordinator page

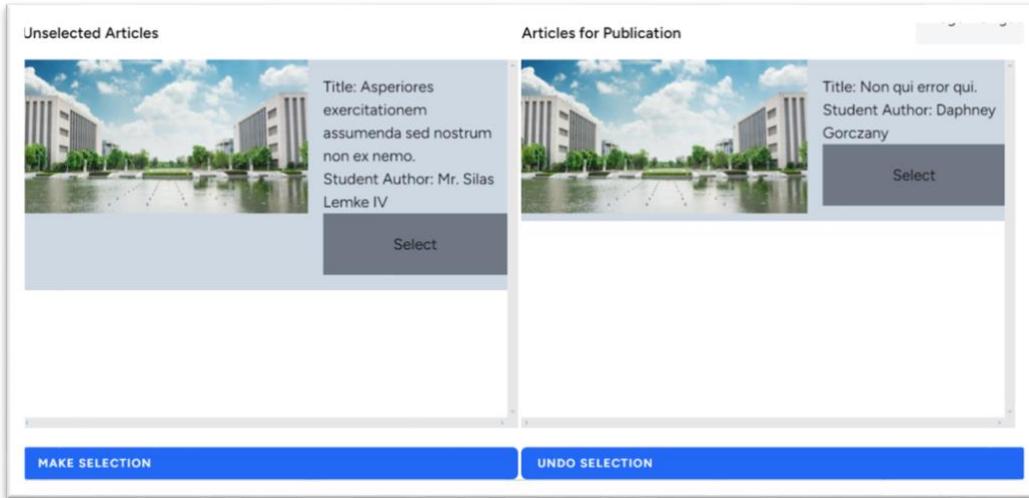
The screenshot displays the Manager Dashboard interface for the Marketing Coordinator page. The dashboard is divided into several sections:

- Charts:** Two bar charts are shown. The left chart, titled "Year Activity", shows the distribution of article counts for 2024, 2023, and 2022. The right chart, titled "Faculty Activity", shows user counts for various faculty members.
- Monthly Issues:** This section includes three sub-components:
  - Create a Monthly Issues:** A form for creating a new issue with fields for Issue Name, Month and Year (selected as April 2024), and an Image Preview area.
  - Monthly Issues Status:** A table showing the status of monthly issues for April 2024. One row is visible: "corrupt" (Status: Unpublished, Year: 2024, Month: April, Article Count: 30).
  - Make Changes to Monthly Issues:** A form for updating an existing issue, with fields for Issue Name, Status (Unpublished), Previous Image, and Image Preview.
- Users:** A table titled "Edit Users Role" listing user details. The columns include Name, Email, Change Role, Change Faculty, Account Creation Date, Articles Upload, Check Articles, and Download Student Articles as Zip. The users listed are:

Name	Email	Change Role	Change Faculty	Account Creation Date	Articles Upload	Check Articles	Download Student Articles as Zip
Kuro	k@gmail.com	Student	Engineering	2024-03-21 12:07:04	0	<a href="#">CHECK</a>	<a href="#">DOWNLOAD AS ZIP</a>
Zoe Wessner	zweissner74@example.org	Student	Engineering	2024-03-21 12:32:40	0	<a href="#">CHECK</a>	<a href="#">DOWNLOAD AS ZIP</a>
Dr. Bernadette Behringer	goretdovic9@example.org	Student	Biology	2024-03-21 12:32:40	0	<a href="#">CHECK</a>	<a href="#">DOWNLOAD AS ZIP</a>
Prof. Neal Deckow	mrneil.natalia9@example.net	Guest	Biology	2024-03-21 12:32:40	0	<a href="#">CHECK</a>	<a href="#">DOWNLOAD AS ZIP</a>
Madeleine Olson	miley81@example.com	Guest	Agriculture	2024-03-21 12:32:40	0	<a href="#">CHECK</a>	<a href="#">DOWNLOAD AS ZIP</a>
Mr. Easter Aukuning	harry9@example.net	Guest	No Faculty	2024-03-21 12:32:40	0	<a href="#">CHECK</a>	<a href="#">DOWNLOAD AS ZIP</a>
- Footer:** Includes a search bar ("Search with Name"), social media icons (Facebook, Twitter, LinkedIn, YouTube, Instagram, and a magnifying glass icon), and the "UoArctic" logo.

Marketing coordinator is part of the admins of the page as they are the one that are responsible for development, coordination & execution of marketing campaigns.

## Article select function



Article select function is where the marketing coordinator can select one or many articles that are to be published. This function is mainly to approve the articles that are submitted by the students or users to be published into the website where users can view.

## User roles edit (student)

User role updated successfully Kaci Kassulke is now a Student							
	Name	Email	Change Role	Faculty	Account Creation Date	Articles Upload	Check Articles
	Kaci Kassulke	hoeger.maybelle@example.net	Student ▾	Engineering	2024-03-10 06:02:53	0	<button>CHECK</button>
	Mary Adams	rowland61@example.org	Guest ▾	Engineering	2024-03-10 06:02:53	0	<button>CHECK</button>
	Estell Glover	jayme.rippin@example.com	Guest ▾	Engineering	2024-03-10 06:02:53	0	<button>CHECK</button>
	Dr. Alexandrine Walter MD	barrows.otto@example.com	Guest ▾	Engineering	2024-03-10 06:02:53	0	<button>CHECK</button>

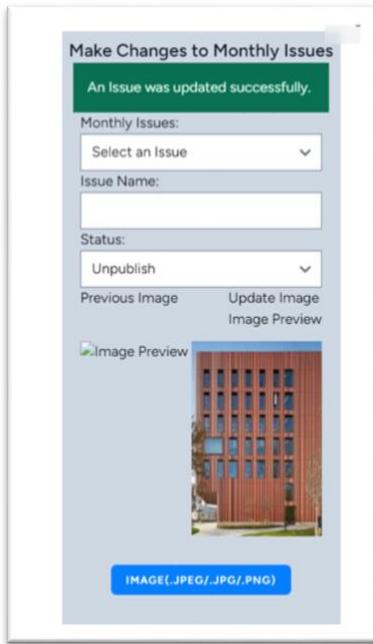
Coordinators are mainly in charge of the updating the user role to student from guests.

## Admin & Marketing manager page

The screenshot displays a comprehensive dashboard for managing academic publications. At the top, there are two main charts: 'Year Activity' and 'Faculty Activity'. The 'Year Activity' chart shows the distribution of articles over time, with a significant peak in 2024. The 'Faculty Activity' chart shows the count of uploaded, isolated, and down-counted articles across different faculty members. Below these charts are two forms: 'Create a Monthly Issues' and 'Monthly Issues Status'. The 'Create a Monthly Issues' form allows users to input issue details like name and month/year, upload an image, and save the issue. The 'Monthly Issues Status' form lists existing issues with columns for name, year, month, status (Unpublished or Published), article count, and download links. A third section, 'Users', provides a list of accounts with columns for name, email, change role, change faculty, account creation date, articles uploaded, check articles, and download student articles as zip. Each user entry includes a 'SEARCH' button. At the bottom, there is a footer with social media icons and the text 'UniArctic'.

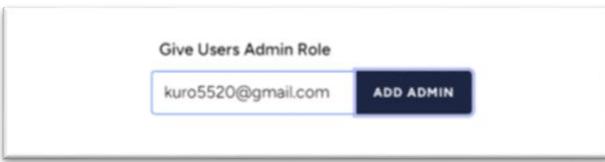
Marketing managers oversee organizing and managing marketing campaigns for the demand of products and services. Their activities include Designing, managing, and evaluating marketing campaigns.

## Edit monthly issues



This is the editing function of the monthly issue update for admins and marketing managers. They can edit and update any monthly issues that are submitted by either changing the issue name status or image.

## User role edit admin (admin only)

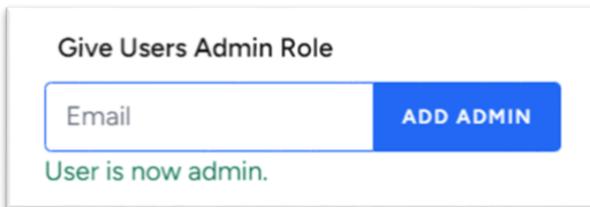


This is the function of the admins where they can edit the role of the user by giving them an admin role.

## Confirmation (admin)



Once the user is selected the confirmation pop-up will show up and by confirming the user will successfully become an admin.



Delete user (admin only)

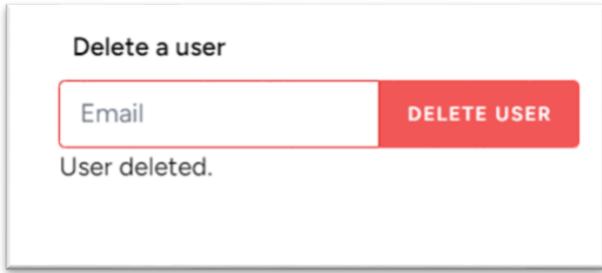


This is the function of the admins where they possess the authority to delete a user completely.

Confirmation (admin only)



After the user is selected the confirmation pop-up will show up, and by confirming, the user will be successfully deleted.



## Future development

The website that the team have created can be improved more in the future. Ai has become more advanced even at the current time. In the future, without the ai our website will not be able to keep the competition going with the other competitors. There are three ai technologies for future development. Ai chatbot which can answer the question from the user not needed someone to reply which make it less time consuming and efficient. Recommendation Engine AI with Content Consumption Tracking and User Profiling capabilities can analysis what books or genre the user has been enjoying reading and recommend that the user might enjoy reading which can increase the view count of the website and also let the user find new article that they have not read or even known. The next AI system is a combination of three AI technologies: Generative AI, Text-to-Image AI, Deep modelling AI. This AI system will be able to show the illustration and video from analyzing the texts of the article to make it more interesting and able to understand better.

In the future, the team would also like to add a text-to-speech function and colour scheme. The text-to-speech function will be able to help blind people to listen to the article and the color scheme will be able to help the colour blind people to interact better with the website. There would be a slide show of popular articles so that users will be able to see the articles even if they arrive for the first time. It will be very helpful for first time users. By also because multilingual users might use the website in the future, integrating the Google Translate features with the website will be best for the future.

In the future, the team planned to increase the security of the website, it is one of the most important things for a website. There will be security features like call verification and message verification to confirm the account. The website will also be integrating with authenticator apps to have more security and is planned to strengthen the security of the database in the future.

# **Website Design**

## **Approach to the site design.**

According to the user stories of the project, it is required to add several functionalities in each webpage design. In the early stages, the design team was tasked to define target users and research suitable designs. There are three UI/UX designers to create three initial prototypes for each page. The design team brainstormed which kinds of features should be added to each prototype effectively. After each iteration, Kaung Myat Htun and Thaw Zin Lin Myat (backend developer) pick the best components from each prototype. Then, Kaung Myat Htun will draw the high-level and low-level prototypes.

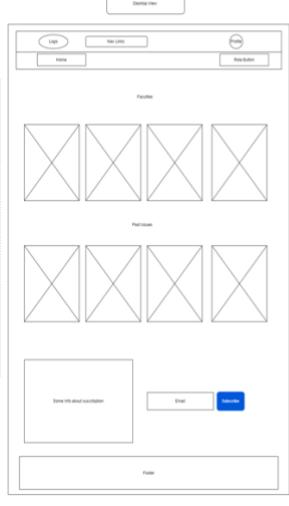
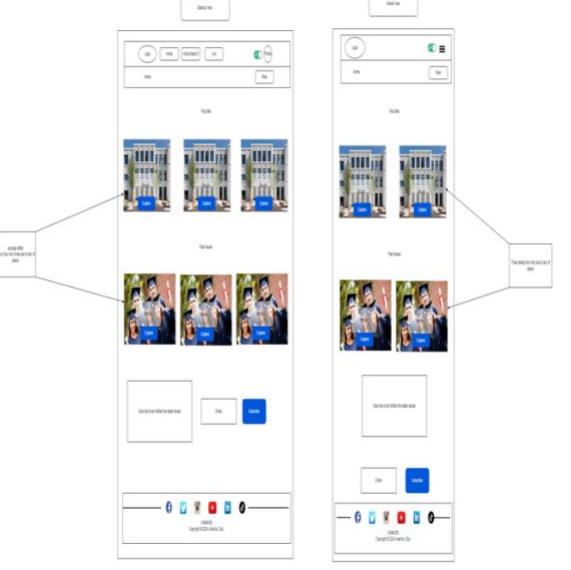
There are four participants in the design team. They are Zwe Yu Ya Kyaw Zin Oo, Thin Htet San, Kaung Myat Htun, and Han Nadi Aung. The tools used for the development are [draw.io](#) and [Figma](#). The design team researched multiple similar articles websites and forums such as [medium.com](#), [cnn.com](#), [fandom.com](#) and [stackoverflow.com](#).

## **Wireframe**

Wireframes are important for the development of the website. They give the development team a basic understanding of each page. The Design Team provides both Low-level and High-level wireframes for each page.

## Home Page

On the home page, there are three sections. They are faculties, past issues and newsletters. In the faculty and past issue sections, users will be able to view the published articles by simply tapping them. Users can also subscribe to the website newsletters on this page.

<b>Low-Level Design</b>	<b>High-Level Design</b>
 <p>The Low-Level Design section displays two wireframe prototypes for the Home Page. The first prototype, labeled 'Desktop View', shows a header with 'Logout', 'New User', and 'New Button' buttons, followed by a 'Faculty' section containing four items, a 'Past Issues' section containing four items, and a 'Some info about newsletter' section with a 'Email' button and a blue button. The second prototype, labeled 'Mobile View', shows a header with 'Logout', 'New User', and 'New Button' buttons, followed by a 'Faculty' section containing three items, a 'Past Issues' section containing three items, and a 'Some info about newsletter' section with a 'Email' button and a blue button.</p>	 <p>The High-Level Design section displays two versions of the Home Page. The left version shows a 'Faculty' section with four building icons and a 'Past Issue' section with four person icons. The right version shows a 'Faculty' section with four building icons and a 'Past Issue' section with four person icons. Callout boxes point from the 'Faculty' sections to the text 'The best faculty in the world!' and from the 'Past Issue' sections to the text 'The best past issue in the world!'.</p>

For more pages see [Appendix](#).

## **Software Utilized for Design**

The design team to school project applied two kinds of software to sketch prototypes such as Draw.io and Figma. Zwe Yu Ya Kyaw Zin Oo applied by combining Figma and draw.io and Thin Htet San applied Draw.io. for her prototypes. Both upload files after finishing their tasks each by each. Han Nadi Aung applied Figma for designing to prototypes. As she shared the website link of Figma, all the team members could see her updated designs via the shared link. Both tools assist in creating prototypes conveniently for user interfaces. These assisted ideas into tangible designs that could be understood the flow of prototypes straightforwardly by group members. Kaung Myat Htun also applied Draw. IO. His task in the design team is to evaluate final product designs by combining three prototypes.

## **Information Architecture**

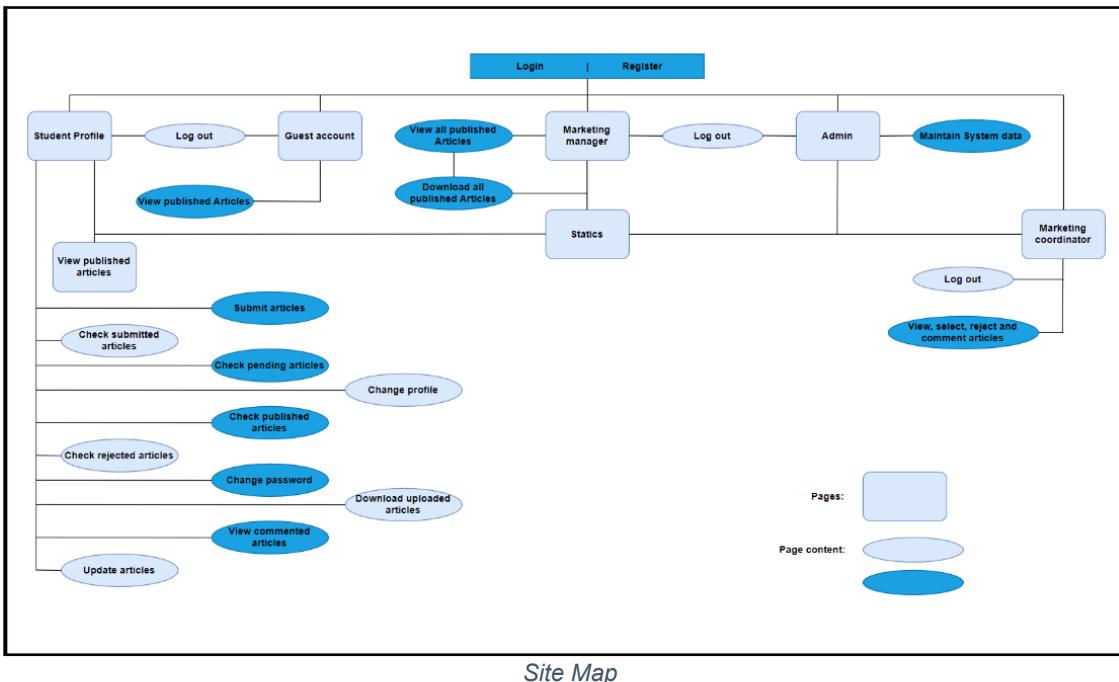
After conducting the site approach, the wireframe mentioned with Neilsen Principles, and the technologies that were used in the making of the site design, the information architecture is constructed to show the specific workflow of the system. There are three sections in the Information Architecture column namely, users' roles sorting, site map, and analysis.

### **Users' Roles Sorting**

Generally, there are five users for the website. They are Guest users, Students, Marketing Managers, Marketing Coordinators, and administrators. Guest users are differentiated from other users by having access to only view the published articles. Moreover, each student is defined by their login usernames and passwords when they access the website to publish articles whereas the Marketing Coordinator interacts with the registered students to suggest editions across the publications. In addition, the Administrator initiates closure dates for the final submission of the publications and the Marketing Manager, however, oversees the processes of the selected contributions by having the authority to download and view them.

### **Site Map**

After the user sorting, the site map is constructed to show the workflow of the system. The map includes the pages that the website contains and the authority of each user that are described as seen in the users' roles sorting section. The additional features of the students include checking for edited, submitted and rejected articles whereas the updated workflow of the Marketing Coordinator includes viewing, selecting, rejecting, and commenting on students' articles.



Site Map

## Analysis

After the completion of user role sorting and site mapping, the analysis of the interaction among the users is presented. By allowing the students to directly take ideas from the coordinators for their articles

- The interaction becomes effective and hence results in productive outcomes.
- The users are committed to their roles as a part of the university's activities.
- By allowing the students to see their progress, they will have more confidence to express their abilities to the public.
- Producing better performances also produces users' satisfaction.
- The statistics such as the data representation of the percentage number of contributions and contributors can be shown easily.

Moreover, the serials of clear images and dark background colours are used based on user-centred design to ensure better visualization and usability. These help users catalogue data effectively and regulate functions efficiently.

# Testing

## Testing plan

The test plan summarizing all the tests that will be carried out by the testers and is listed page by page along with its functions. The plan will show what the tests are, how they are carried out, the purpose of performing each test and the expected result of each test.

### 1. Home page

Test	What is being tested	How it is tested	Purpose of testing	Expected result
1.1	Home page	The link to the website is clicked.	To see the website.	The website Home page is shown.
1.2	Subscribe to newsletter	The 'subscribe' button is clicked after filling the required credentials	To see the confirmation message.	'You have been subscribed to our newsletter' message is shown.
1.3	Unsubscribe to newsletter	The 'Unsubscribe' button is clicked after subscribing.	To see the confirmation message.	'You have been unsubscribed from our newsletter' message is shown.

### 2. Register Page

Test	What is being tested	How it is tested	Purpose of testing	Expected result
2.1	Register invalidation	The 'register' button is clicked without any credentials added.	To see the Error prevention message.	'Please fill out this field' message is shown.
2.2	Email '@' testing	The email field is filled without the '@'.	To see the Error prevention message.	'Please include an '@' in the email address' message is shown.
2.3	Email already exists testing	The registered email is filled.	To see the error prevention message.	'The email has already been taken' message is shown.
2.4	Faculty selection testing	The 'register' button is clicked without	To see the error prevention message.	'The faculty id field is required' message is shown.

		selecting the faculty ID.		
2.5	Password length testing	The 'register' button is clicked after filling the invalid password length	To see the error prevention message.	'The password field must be at least 8 characters' message is shown.
2.6	Password confirmation testing	The 'register' button is clicked without matching the two password fields.	To see the error prevention message.	'The password field confirmation does not match' message is shown.
2.7	Check box testing	The 'register' button is clicked without checking the box.	To see the reminder message.	'Please check this box if u want to proceed' message is shown.
2.8	Register validation testing	The 'register' button is clicked after filled out the required credentials.	To take the user to the email verification form.	The email verification form is shown.
2.9	Email verification testing	Verification is sent to the user's email.	To verify the user's account so that the user can login.	The verification message is shown in the user's email.
2.10	Register testing	The user has successfully verified their email.	For the user to be able to login.	The user is taken to the login page and can now login to the page.

### 3. Login Page

Test	What is being tested	How it is tested	Purpose of testing	Expected result
3.1	Login invalidation	The 'login' button is clicked without filling any credentials.	To see the error prevention message.	'Please fill out this field' message is shown.
3.2	Email '@' testing	The email field is filled without adding the '@'.	To see the error prevention message.	'Please include an '@' in the email address' message is shown.

3.3	Password testing	The incorrect password is filled.	To see the error prevention message.	'These credentials do not match our records' message is shown.
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#### 4. Coordinator page

Test	What is being tested	How it is tested	Purpose of testing	Expected result
4.1	Article select	An article is chosen among the unselected Articles and 'make selection' button is clicked.	To see the confirmation message.	'articles selected successfully' message is shown.
4.2	Articles unselect	The selected article or articles are chosen and 'undo selection' button is clicked.	To see the confirmation message.	'articles unselected successfully' message is shown.
4.3	User role update	A user or users are selected, and their roles are updated in the 'change role' radio table.	To see the confirmation message.	'user role updated successfully (user name) is now a student.'
4.4	User search	The name of the user is filled in the search bar and the 'search' button is clicked.	To see the searched user in the table.	The searched user is shown.
4.5	Upload incorrect faculty image	An image rather than a portrait image is selected 'save' button is clicked.	To see the error prevention message.	'please upload a portrait image' message.
4.6	Upload correct faculty image	A portrait image is selected and 'save' button is clicked.	To see the confirmation message.	'image uploaded successfully' message.

## 5. Manager page

Test	What is being tested	How it is tested	Purpose of testing	Expected result
5.1	Monthly Issue Invalidation test	The 'save' button is clicked without filling out any credentials.	To see the error prevention message.	'please fill out this field' message is shown.
5.2	Same Issue name test	The already existing issue name is filed and the 'save' button is clicked.	To see the error prevention message.	'The issue name has already been taken' message is shown.
5.3	Monthly Issue Month and year selection test	The 'save' button is clicked without month and year being selected.	To see the error prevention message.	'please select an item in the list' message is shown.
5.4	Monthly Issue image select test	The 'save' button is clicked without selecting an image in the image field.	To see the error prevention message.	'The image field is required' message is shown.
5.5	Monthly issue create test	The 'save' button is clicked after filled out the required fields.	To see the confirmation message.	'An issue has been created successfully' message is shown.
5.6	Monthly issue update test	The 'save' button is clicked after making changes to the issue.	To see the confirmation message.	'an issue was updated successfully' message is shown.
5.7	Monthly issue search test	The 'search' button is clicked after filling out the credentials in the search bar.	To see the searched issue.	The searched issues are shown.
5.8	Monthly issue search filter test	The lists of status is selected and the 'search' button is clicked.	To search the issues by filter.	The searched issues are shown.

5.9	Monthly issue download test	The 'download as ZIP' button is clicked for the selected issue.	To download the article as zip file.	The issue has been successfully downloaded.
5.10	Download Year magazine test	A year is selected from the list beside the 'Download year Magazine .ZIP' button and it is clicked.	To download the year magazine	The year magazine is successfully downloaded.

## 6. Admin Page

Test	What is being tested	How it is tested	Purpose of testing	Expected result
6.1	Give admin role test	The email of the user is filled in the required field and 'add admin' is clicked. After that, in the pop-up confirmation bar, the required word 'confirm' is filled.	To make a user an admin.	'user is now admin' message will be shown.
6.2	Delete user test	The email of the user is filled in the required field and the 'delete user' button is clicked.	To delete a user.	'user deleted' message is shown.
6.3	Monthly Issue Invalidation test	The 'save' button is clicked without filling out any credentials.	To see the error prevention message.	'please fill out this field' message is shown.
6.4	Same Issue name test	The already existing issue name is filed and the 'save' button is clicked.	To see the error prevention message.	'The issue name has already been taken' message is shown.
6.5	Monthly Issue Month and year selection test	The 'save' button is clicked without month and year being selected.	To see the error prevention message.	'please select an item in the list' message is shown.
6.6	Monthly Issue image select test	The 'save' button is clicked without selecting an image in the image field.	To see the error prevention message.	'The image field is required' message is shown.
6.7	Monthly issue create test	The 'save' button is clicked after filled out the required fields.	To see the confirmation message.	'An issue has been created successfully' message is shown.
6.8	Monthly issue update test	The 'save' button is clicked after making changes to the issue.	To see the confirmation message.	'an issue was updated successfully' message is shown.
6.9	Monthly issue search test	The 'search' button is clicked after filling out	To see the searched issue.	The searched issues are shown.

		the credentials in the search bar.		
6.10	Monthly issue search filter test	The lists of status is selected and the 'search' button is clicked.	To search the issues by filter.	The searched issues are shown.
6.11	Monthly issue download test	The 'download as ZIP' button is clicked for the selected issue.	To download the article as zip file.	The issue has been successfully downloaded.
6.12	Download Year magazine test	A year is selected from the list beside the 'Download year Magazine .ZIP' button and it is clicked.	To download the year magazine	The year magazine is successfully downloaded.

## 7. Article search page

Test	What is being tested	How it is tested	Purpose of testing	Expected result
7.1	Search bar test	The starting letters of the articles ( ) are filled in the search bar and the 'search' button is clicked.	To search the desired articles.	The searched articles that contains the starting letters ' ' are shown.
7.2	Filter search by year test	A year is selected in the list of years from the year radio box.	To search the articles by year.	The articles submitted during the selected year are shown.
7.3	Filter search by month	A month or two is selected in the list of months from the month radio box.	To search the articles by month.	The articles submitted during the selected month are shown.
7.4	Filter search by faculty	A faculty is selected in the list of faculties from the faculty radio box.	To search the articles by their respective faculty.	The articles submitted depending on the faculty are shown.

## 8. Create Article Page

Test	What is being tested	How it is tested	Purpose of testing	Expected result
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8.1	Article submit invalidation	The 'submit' button is clicked without filling any required credentials.	To see the error prevention message.	'please fill out this field' message is shown.
8.2	Article submit intro invalidation test	The 'submit' button is clicked without filling the intro field.	To see the error prevention message.	'please fill out this field' message is shown.
8.3	Article submit tag invalid test	The 'submit' button is clicked without checking any tag.	To see the reminder message.	'you must check at least one tag' message is shown.
8.4	Article submit doc file invalid test	The 'submit' button is clicked without uploading any doc files.	To see the error prevention message.	'please select a file' message is shown.
8.5	Article submit check box test	The 'submit' button is clicked without checking the I agree to term of service and privacy policy check box.	To see the error prevention message.	'please check this box if you want to proceed' message is shown.
8.6	Article submit validation test	The 'submit' button is clicked after filling all the required credentials.	To see the confirmation message.	'Article created successfully' message is shown.

# Testing Log

## 1. Home page

Unit Test 1		Test Case: Home Page Subscribe button test	Designed by: Nyan Lin Htet	
Data Source:		Objective: User subscription is complete	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
1.2	Subscribe to newsletter	'Subscribe' button is clicked after filling the required credentials	'you have been subscribed to our newsletter' message is shown.	'you have been subscribed to our newsletter' message is shown.

### Before Testing

Published Magazines

Stay in the loop! Subscribe to our newsletter.

Connect with us and learn from other members of our community.

Subscribe Now!

[Unsubscribe](#)

### After Testing

Published Magazines

You have been subscribed to our newsletter.

Stay in the loop! Subscribe to our newsletter.

Connect with us and learn from other members of our community.

Subscribe Now!

[Unsubscribe](#)

## 2. Register Page

Unit Test 2		Test Case: Register page register button testing.	Designed by: Nyan Lin Htet	
Data Source: Register page		Objective: Error message for not filling anything in the register form	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
2.1	Register invalidation	The 'register' button is clicked without any credentials added.	'please fill out this field' message is shown.	Show expected error message in red and prevent from registering

## Before Testing

The screenshot shows a registration form with the following fields:

- Name: Text input field
- Email: Text input field
- Faculty: Select dropdown menu labeled "Select Faculty"
- Password: Text input field
- Confirm Password: Text input field
- I agree to the Terms of Service and Privacy Policy: Checkbox
- REGISTER: Button

## After Testing

The screenshot shows the same registration form, but the 'Email' field is highlighted with a blue border. An error message box is displayed above the field, containing the text "Please fill out this field." with an exclamation mark icon.

Unit Test 2		Test Case: Register page register button testing.	Designed by: Nyan Lin Htet	
Data Source: Register page		Objective: Error message for not using '@' in the email field	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
2.2	Email '@' testing	The 'register' button is clicked without any credentials added.	'please include an '@' in the email address' message is shown.	Shows error messages and prevent from registering

## Before Testing

The screenshot shows a registration form with the following fields:

- Name: Text input field
- Email: Text input field
- Faculty: Select dropdown menu labeled "Select Faculty"
- Password: Text input field
- Confirm Password: Text input field
- I agree to the Terms of Service and Privacy Policy: Checkbox
- REGISTER: Button

## After Testing

The screenshot shows the same registration form. The 'Email' field contains the value "kkmh\$". An error message box is displayed above the field, containing the text "Please include an '@' in the email address. 'kkmh\$' is missing an '@'." with an exclamation mark icon.

<b>Unit Test 2</b>		<b>Test Case: Register page register button testing.</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Register page</b>		<b>Objective: Error messages for registering with already existed email</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
2.3	Email already exists testing	The 'register' button is clicked after adding the already registered email in the email field	'the email has already been taken' message is shown.	It shows error message in red color and prevent from registering.

**Before Testing**

**After Testing**

<b>Unit Test 2</b>		<b>Test Case: Register page register button testing.</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Register page</b>		<b>Objective: To take the user to the email verification form</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
2.8	Register validation testing	Clicked the 'register' button after adding the required data correctly in the responsive fields	The email verification form is shown.	It lead to email verification form and work fine

## Before Testing

Name  
Kuro

Email  
kmh61030@gmail.com

Faculty  
Science

Password

Confirm Password

I agree to the [Terms of Service](#) and [Privacy Policy](#)

[Already registered?](#) **REGISTER**

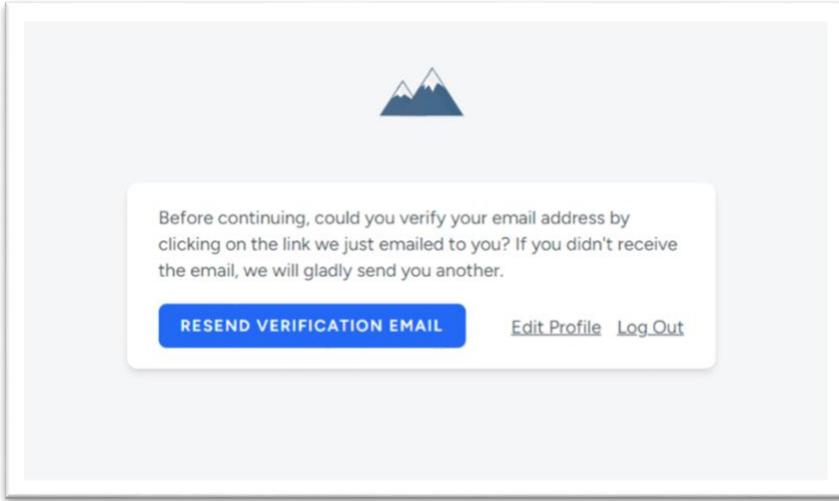
## After Testing

Before continuing, could you verify your email address by clicking on the link we just emailed to you? If you didn't receive the email, we will gladly send you another.

**RESEND VERIFICATION EMAIL** [Edit Profile](#) [Log Out](#)

Unit Test 2		Test Case: Email verification test	Designed by: Nyan Lin Htet	
Data Source: Register page		Objective: To send the email to user email address	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
2.9	Email verification testing	Check the email and clicked the email verification	The verification message is shown in the user's email.	The email arrives to the user imputed email address and able to verify the email account

Before testing



### After testing

A screenshot of an email inbox. The top bar is light blue with the text "Verify Email Address" and "08-Apr-24 9:30:40 PM (13.3KB)". Below the inbox, a detailed view of the email is shown. The email header includes: To: bethedonkey123@gmail.com, Date: 08-Apr-24 9:30:40 PM +00:00, and Subject: Verify Email Address. The email body starts with "UniArctic" and "Hello!". It instructs the user to click a "Verify Email Address" button. It also states: "If you did not create an account, no further action is required." and "Regards, UniArctic". At the bottom, there is a URL: "http://127.0.0.1:8000/email/verify/326/08905a24b5e285abd519beb74c51b6fe0aef3?Expires=1712592039&amp;Signature=74d5de2f18f71cdab4e265c5c7945711e02d3ed5a683412f281d749b690ea5f".

### 3. Login page

Unit Test 1	Test Case: Login function testing	Designed by: Nyan Lin Htet
Data Source: Login page	Objective: Error message for not adding any data in the login form	Tester: Kaung Myat Htun

<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
3.1	Login invalidation	Clicking the 'Login' button without adding any data in the login form	'Please fill out this field' message is shown.	The system shows error message and prevent from logging into the account

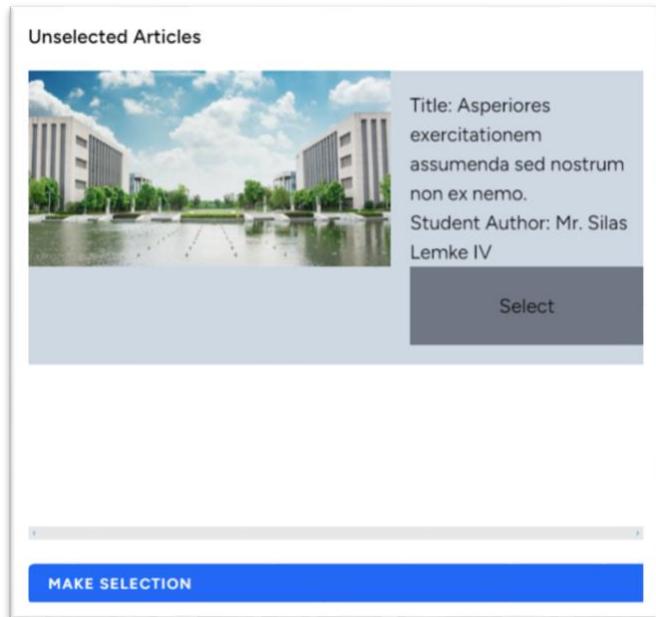
**Before Testing**

**After Testing**

#### 4. Coordinator page

<b>Unit Test 4</b>		<b>Test Case: Article selection button test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source:</b>		<b>Objective: Confirmation message of selecting articles</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
4.1	Article select	An article is chosen among the unselected Articles and 'make selection' button is clicked.	'Articles selected successfully' message is shown.	Article is successfully selected.

## Before Testing



## After Testing



Unit Test 4		Test Case: User role updating button test	Designed by: Nyan Lin Htet	
Data Source:		Objective: Confirmation message of updated user role	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
4.3	User role update	A user or users are selected and their roles are updated in the 'change role' radio table.	'user role updated successfully (user name) is now a student.'	User role is successfully changed.

## Before testing

Name	Email	Change Role	Faculty	Account Creation Date	Articles Upload	Check Articles
Kaci Kassulke	hoeger.maybelle@example.net	Student ▾	Engineering	2024-03-10 06:02:53	0	<button>Check</button>
Mary Adams	rowland61@example.org	Guest ▾	Engineering	2024-03-10 06:02:53	0	<button>Check</button>
Estell Glover	jayme.rippin@example.com	Guest ▾	Engineering	2024-03-10 06:02:53	0	<button>Check</button>
Dr. Alexandrine Walter MD	barrows.oto@example.com	Guest ▾	Engineering	2024-03-10 06:02:53	0	<button>Check</button>

## After testing

User role updated successfully Kaci Kassulke is now a Student

Name	Email	Change Role	Faculty	Account Creation Date	Articles Upload	Check Articles
Kaci Kassulke	hoeger.maybelle@example.net	Student ▾	Engineering	2024-03-10 06:02:53	0	<button>Check</button>
Mary Adams	rowland61@example.org	Guest ▾	Engineering	2024-03-10 06:02:53	0	<button>Check</button>
Estell Glover	jayme.rippin@example.com	Guest ▾	Engineering	2024-03-10 06:02:53	0	<button>Check</button>
Dr. Alexandrine Walter MD	barrows.oto@example.com	Guest ▾	Engineering	2024-03-10 06:02:53	0	<button>Check</button>

<b>Unit Test 4</b>		<b>Test Case: User searching button test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source:</b>		<b>Objective: Display of searched user</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
4.4	User search	The name of the user is filled in the search bar and the 'search' button is clicked.	The searched user is shown.	The searched user is shown.

## Before testing

Edit users Role							
Name	Email	Change Role	Faculty	Account Creation Date	Articles Upload	Check Articles	
Kuro	kmh55201@gmail.com	Guest ▾	Information Technology	2024-03-10 05:23:59	0	<button>CHECK</button>	
Arvid Bergnaum DDS	dfeeney@example.org	Guest ▾	Information Technology	2024-03-10 06:02:53	0	<button>CHECK</button>	
Mr. Blair Hodkiewicz DDS	hilpert.ansel@example.net	Guest ▾	Information Technology	2024-03-10 06:02:53	0	<button>CHECK</button>	
Prof. Jayson Koepp I	ulrich.julien@example.com	Guest ▾	Information Technology	2024-03-10 06:02:53	0	<button>CHECK</button>	
Shanna Harris II	veronica21@example.org	Guest ▾	Information Technology	2024-03-10 06:02:53	0	<button>CHECK</button>	
Johnathon Gerlach	vada41@example.com	Guest ▾	Information Technology	2024-03-10 06:02:53	0	<button>CHECK</button>	

owing 1 to 6 of 30 results

Search with Name

SEARCH

## After testing

Edit users Role							
Name	Email	Change Role	Faculty	Account Creation Date	Articles Upload	Check Articles	
Prof. Jayson Koepp I	ulrich.julien@example.com	Guest ▾	Information Technology	2024-03-10 06:02:53	0	<button>CHECK</button>	
Johnathon Gerlach	vada41@example.com	Guest ▾	Information Technology	2024-03-10 06:02:53	0	<button>CHECK</button>	
Dr. Harvey Jacobi I	witting.ashley@example.com	Guest ▾	Information Technology	2024-03-10 06:02:53	0	<button>CHECK</button>	
Dr. Alejandrín Heaney IV	nikolaus.lue@example.net	Guest ▾	Information Technology	2024-03-10 06:02:53	0	<button>CHECK</button>	
Prof. Jedidiah Fisher	pagac.alycia@example.net	Guest ▾	Information Technology	2024-03-10 06:02:54	1	<button>CHECK</button>	
Ms. Marjorie Treutel DVM	shayne24@example.com	Guest ▾	Information Technology	2024-03-10 06:02:54	0	<button>CHECK</button>	

Search with Name

SEARCH

## 5. Marketing Manager Page

<b>Unit Test 5</b>		<b>Test Case: Monthly Issue invalidation test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Create Monthly Issue</b>		<b>Objective: To see the error prevention message</b>		<b>Tester: Kaung Myat Htun</b>
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
5.1	Monthly issue invalidation test	The 'save' button is clicked without filling out any credentials.	'please fill out this field' message is shown.	'please fill out this field' message is shown.

## Before testing

Create a Monthly Issues

Issue Name:

Month and Year:

Select Month and Year

Image Preview

[IMAGE(.JPEG/.JPG/.PNG)]

SAVE

## After testing

Create a Monthly Issues

Issue Name:

Month and Year

A [Please fill out this field.]

Image Preview

[IMAGE(.JPEG/.JPG/.PNG)]

SAVE

Unit Test 5		Test Case: Monthly issue search test	Designed by: Nyan Lin Htet	
Data Source: Monthly Issue status		Objective: To search one or more issues by name	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
5.7	Monthly issue search test	The 'search' button is clicked after filling out the credentials in the search bar.	The searched issues are shown	The searched issues are shown.

## Before testing

**Monthly Issues Status**

Issue Name:

Status:

## After testing

**Monthly Issues Status**

Issue Name:

Status:

Issue Name	Year	Month	Publish	Article Count	Download Published
doloribus	2024	January	Unpublished	0	<input type="button" value="DOWNLOAD AS ZIP"/>
dolores	2023	February	Unpublished	0	<input type="button" value="DOWNLOAD AS ZIP"/>
dolorem	2024	February	Unpublished	1	<input type="button" value="DOWNLOAD AS ZIP"/>
doloremque	2022	September	Unpublished	1	<input type="button" value="DOWNLOAD AS ZIP"/>

[Upload Year Magazine](#)

Unit Test 5		Test Case: Monthly Issue search filter test	Designed by: Nyan Lin Htet	
Data Source: Monthly Issues Status		Objective: To search the issues by filter	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
5.8	Monthly issue search filter test	The lists of status is selected and the 'search' button is clicked.	The searched issues are shown.	The searched issues are shown.

## Before testing

Status:

## After testing

Status:

Issue Name	Year	Month	Publish	Article Count	Download Published
doloribus	2024	April	Published	2	<input type="button" value="DOWNLOAD AS ZIP"/>

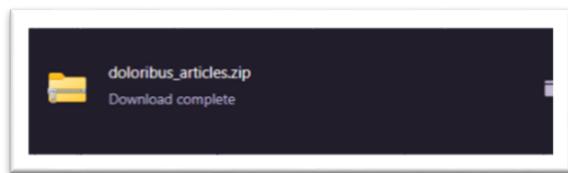
<b>Unit Test 5</b>		<b>Test Case: Monthly Issue download test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Monthly Issue Status</b>		<b>Objective: To download the .zip file of the issue</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
5.9	Monthly issue download test	The 'download as ZIP' button is clicked for the selected issue.	The .zip file of the issue is downloaded	The issue zip file has been successfully downloaded.

**Before testing**

The screenshot shows a web application interface for managing monthly issues. At the top, there's a search bar labeled 'Issue Name: dolo' with a 'SEARCH' button. Below it, there are dropdown menus for 'Status: Published', 'Year', and 'Month'. A table lists three issues:

Issue Name	Year	Month	Publish	Article Count	Download
doloribus	2024	April	Published	2	<b>DOWNLOAD AS ZIP</b>
dolorem	2022	August	Published	0	<b>DOWNLOAD AS ZIP</b>
dolorem	2023	July	Published	0	<b>DOWNLOAD AS ZIP</b>

**After testing**



## 6. Admin Page

<b>Unit Test 6</b>		<b>Test Case: Give admin role test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Edit User Role</b>		<b>Objective: The selected user is administrated</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
6.1	Give admin role test	The email of the user is filled in the required field and 'add admin' is clicked. After that, in the pop-up confirmation bar, the required word 'confirm' is filled.	The user is administrated	'user is now admin' message will be shown.

**Before testing**

User List									
Name	Email	Change Role	Change Faculty	Date	Sessions	Upload	Check Articles	as Zip	Page Nav
Kailyn Rempel DVM	lowe.griffin@example.net	Guest ▾	No Faculty ▾	2024-02-22 12:46:41	No sessions available	0	<button>Check</button>	<button>Download as Zip</button>	
Dr. Macy Gaylord Jr.	angel37@example.org	Guest ▾	No Faculty ▾	2024-02-22 12:46:41	No sessions available	0	<button>Check</button>	<button>Download as Zip</button>	
Krystal Satterfield	kgreen@example.net	Guest ▾	No Faculty ▾	2024-02-22 12:46:41	No sessions available	0	<button>Check</button>	<button>Download as Zip</button>	
Kuro	kmh55201@gmail.com	Guest ▾	Information Technology ▾	2024-03-10 05:23:59	No sessions available	0	<button>Check</button>	<button>Download as Zip</button>	
Kuro	kuro5520@gmail.com	Guest ▾	Information Technology ▾	2024-03-10 05:35:02	Microsoft,	0	<button>Check</button>	<button>Download as Zip</button>	
Karley Pacocha	aron88@example.org	Guest ▾	Medicine ▾	2024-03-10 06:02:53	No sessions available	0	<button>Check</button>	<button>Download as Zip</button>	

Showing 19 to 24 of 323 results

◀ 1 2 3 4 5 6 7 8 9 10 ... 53 54 ▶

## After testing (phase 1)

127.0.0.1:8000 says

Are you sure?

Type AdMin and Press 'OK' to confirm to confirm

Role		Sessions	
▼		OK	Cancel
▼	No Faculty ▾	2024-02-22 12:46:41	No sessions available
▼	No Faculty ▾	2024-02-22 12:46:41	No sessions available
▼	Information Technology ▾	2024-03-10 05:23:59	No sessions available
▼	Information Technology ▾	2024-03-10 05:35:02	Microsoft
▼	Medicine ▾	2024-03-10 06:02:53	No sessions available

◀ 1 2 3 4 ▶

Give Users Admin Role

ADD ADMIN

## After testing (phase 2)

## Give Users Admin Role

Email

ADD ADMIN

User is now admin.

Unit Test 6		Test Case: Delete User test	Designed by: Nyan Lin Htet	
Data Source: Edit User role		Objective: The selected user is deleted	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
6.2	Delete user test	The email of the user is filled in the required field and the 'delete user' button is clicked. Then the pop up confirmation deleted is shown and 'delete' is to be type then the 'ok' button is clicked.	The user is deleted.	'user deleted' message is shown.

## Before testing

Delete a user

aron88@example.org

DELETE USER

## After testing (phase 1)

The screenshot shows a web application interface. At the top right, there is a navigation bar with icons for Home, Article Search, and a user profile. A modal dialog box is prominently displayed in the center-left. The dialog has a dark background and contains the text "127.0.0.1:8000 says" followed by "Are you sure?". Below this, it says "Type Delete and Press 'OK' to confirm". There is a text input field containing "Delete" and two buttons: "OK" (highlighted in red) and "Cancel". To the right of the modal is a table with data. The table has columns for "Role", "Sessions", "Upload", "Check Articles", and "as ZIP". The "Role" column lists categories like "No Faculty", "Information Technology", "Medicine", and "Science". The "Sessions" column shows session counts (e.g., 0 sessions available). The "Upload" and "Check Articles" columns contain blue "CHECK" buttons. The "as ZIP" column contains blue "DOWNLOAD AS ZIP" buttons. Below the table is a navigation bar with page numbers from 1 to 54. At the bottom left, there is a section titled "Give Users Admin Role" with a "Email" input field and a "ADD ADMIN" button. At the bottom right, there is a section titled "Delete a user" with an "aroon88@example.org" input field and a "DELETE USER" button.

Role	Sessions	Upload	Check Articles	as ZIP
No Faculty	0 sessions available	0	<b>CHECK</b>	<b>DOWNLOAD AS ZIP</b>
No Faculty	0 sessions available	0	<b>CHECK</b>	<b>DOWNLOAD AS ZIP</b>
Information Technology	0 sessions available	0	<b>CHECK</b>	<b>DOWNLOAD AS ZIP</b>
Medicine	0 sessions available	0	<b>CHECK</b>	<b>DOWNLOAD AS ZIP</b>
Science	0 sessions available	0	<b>CHECK</b>	<b>DOWNLOAD AS ZIP</b>

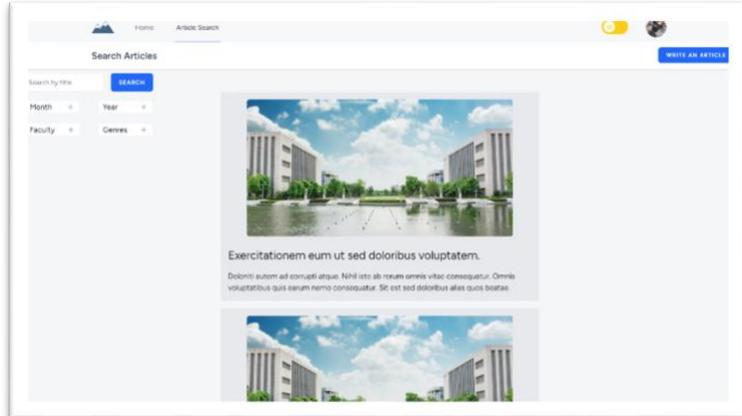
## After testing (phase 2)

This screenshot shows a simplified version of the "Delete a user" dialog. It features a large red "DELETE USER" button at the top right. Below the button is a text input field labeled "Email" containing "aroon88@example.org". The text "User deleted." is displayed below the input field.

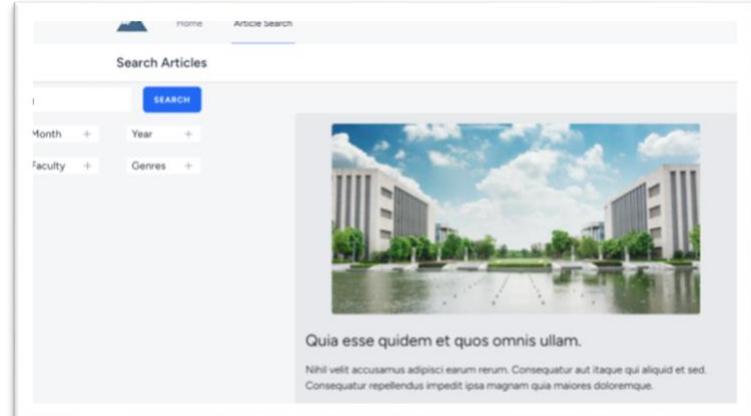
## 7. Article Search Page

<b>Unit Test 7</b>		<b>Test Case: Search bar test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Search article page</b>		<b>Objective: Searching for desired articles from the search bar</b>	<b>Tester: Kaung Myat Htun</b>	
Test Case	Description	Test Procedure	Expected Result	Actual Results
7.1	Search for articles using the search bar	The starting letters of the articles () are filled in the search bar and the 'search' button is clicked.	The searched articles that contain the starting letters ' ' are shown.	The article is successfully searched and shown.

**Before Testing**



**After Testing**



<b>Unit Test 7</b>		<b>Test Case: Filter search by year test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Search article page</b>		<b>Objective: Searching the articles by filtering year</b>	<b>Tester: Kaung Myat Htun</b>	
Test Case	Description	Test Procedure	Expected Result	Actual Results
7.2	Search for articles by filtering the year of publishing	A year is selected in the list of years from the year radio box.	The articles submitted during the selected year are shown.	The articles from the selected year are successfully searched and shown.

## Before Testing

Search by title

**SEARCH**

Month + Year -

Faculty + **2024**

## After Testing

Month + Year -

Faculty + **2024**



Quia nostrum autem neque omnis sapiente.

Voluptatem nihil ipsum iure tenetur amet rem. Molestiae iusto atque quasi natus et esse aut. Veritatis delectus sequi cum assumenda tempora. Dolorum et voluptas fugit aut. Magnam reiciendis et eum...

## 8. Create Article Page

<b>Unit Test 8</b>		<b>Test Case: Article submission button test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source:</b> Create article page		<b>Objective:</b> Error message for invalid article	<b>Tester:</b> Kaung Myat Htun	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
8.1	<b>Article submit invalidation</b>	The 'submit' button is clicked without filling any required credentials.	'Please fill out this field' message is shown.	Error prevention message is provided for not filling to article.

## Before Testing

Title

Intro

Choose Tags

Comedy	Thriller	Historical Fiction	Literature	Science
Mystery	Science Fiction	Horror	Fantasy	Fashion

[IMAGE \(.JPEG/.JPG/.PNG\)](#) [CONTENT \(.DOCX\)](#) .docx file

Today is March 10, 17th March is the deadline for submitting articles for the current month.

Choose the Issue

onwards March 2024

Submit as Anonymous

I agree to the [Terms of Service](#) and [Privacy Policy](#)

[SUBMIT](#)

## After Testing

Title ! Please fill out this field.

Intro

Choose Tags

Comedy	Thriller	Historical Fiction	Literature	Science
Mystery	Science Fiction	Horror	Fantasy	Fashion

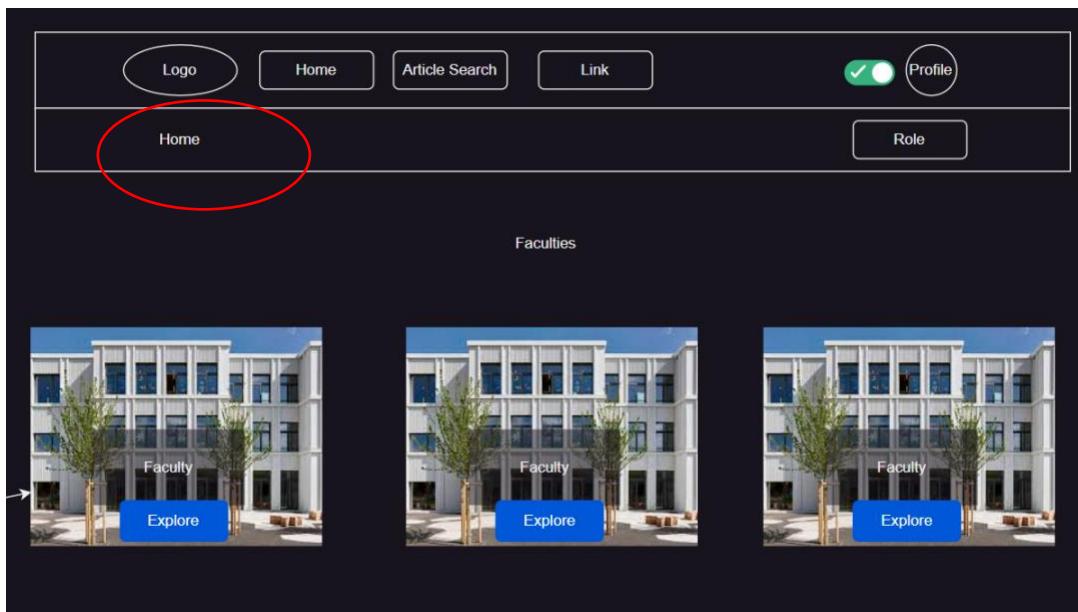
[IMAGE \(.JPEG/.JPG/.PNG\)](#) [CONTENT \(.DOCX\)](#) .docx file

# Product evaluation

## Nielsen principles

To work with this design, UI must not be confusing, demanding, or cause stress to the visitors. Instead, user journeys should be so fluid that their navigation becomes intuitive and effortless. So, the 10 heuristics defined by Jakob Nielsen are applied to our interface design to evaluate its usability.

### 1. Visibility of system status



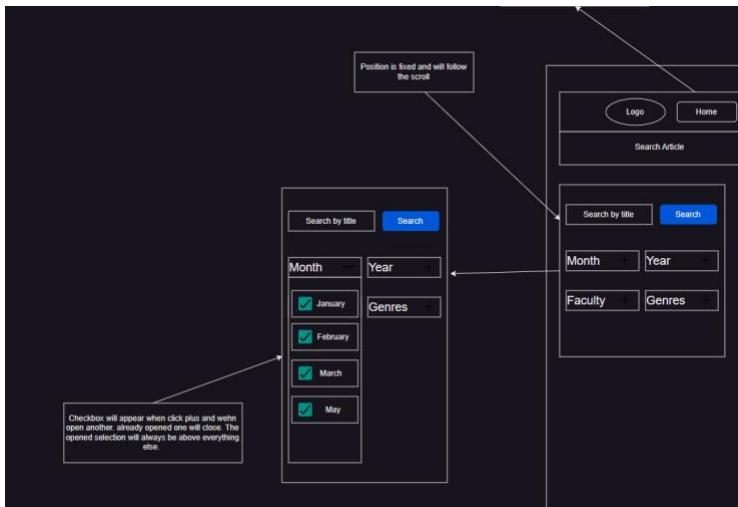
Users are informed of the current system status and learn the results of their previous interactions so they can determine what they should do next. In our design, users can see which page they are currently at.

### 2. Match between the system and the real world



A system should always speak the user's language and follow real-world conventions. By using familiar words, phrases and concepts to the target audience, users can instantly recognise and understand what the system is trying to say. In our design, icons, other illustrations and words that resonate with the real world are used.

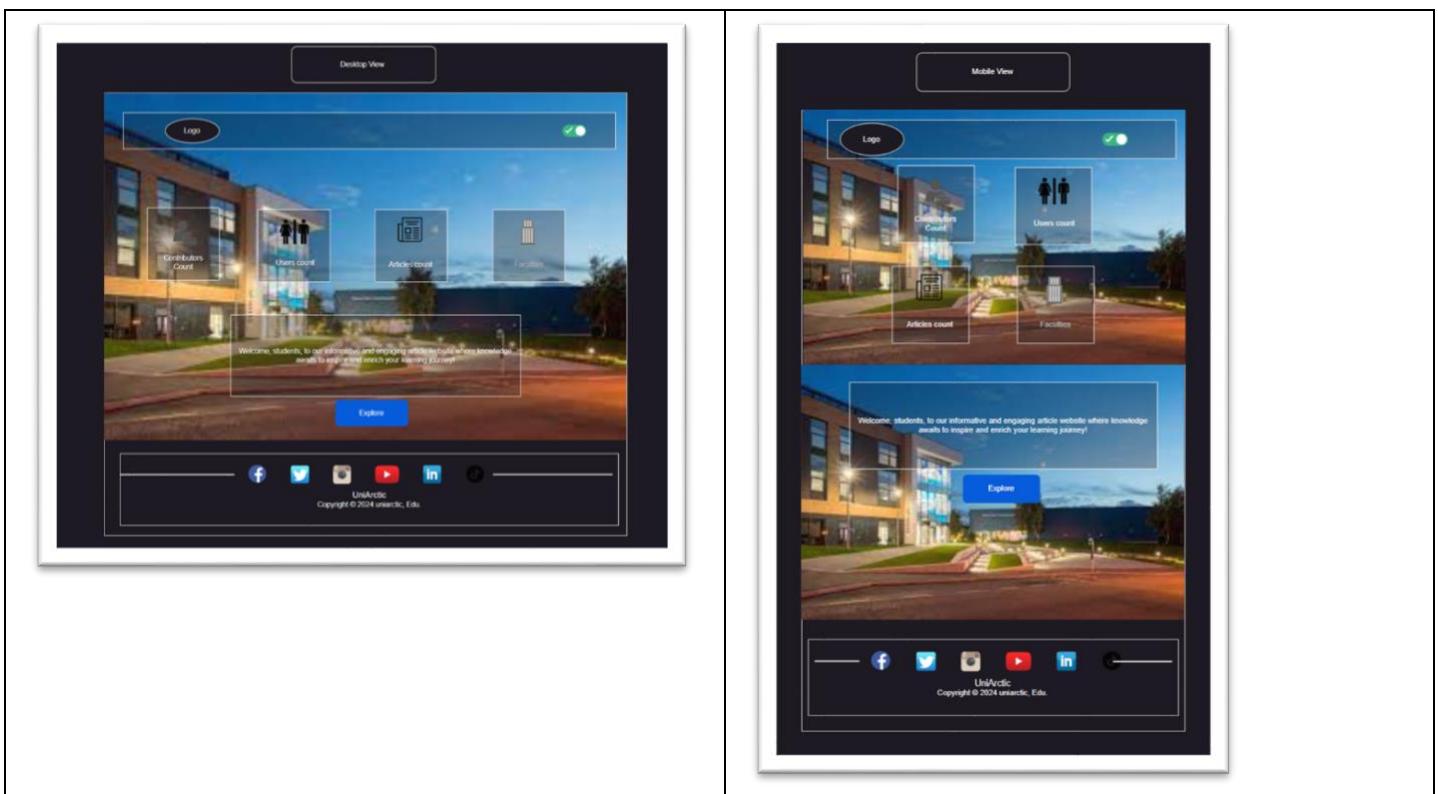
### 3. User control and freedom



A good UI design should never take an action on the user or make decisions for them. The system should only suggest which paths the user can take. In our design, the system allows the users to pick their desired paths and can also change them if the user made a mistake or wants different results.

### 4. Consistency and standards

PC view	Mobile view
---------	-------------



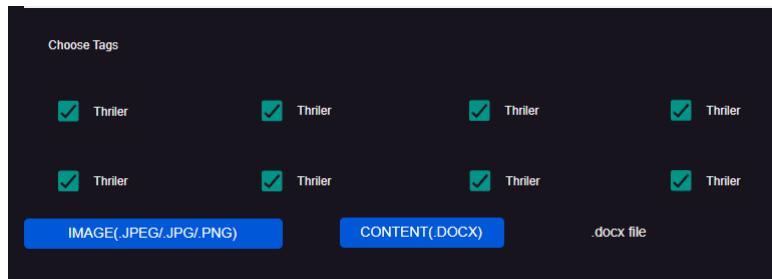
People use different digital products. A good UI Design should be viewed in any devices to maintain the consistency. It is also a standard for a website to be responsive. In our design, we have clear and neat design for both desktop and mobile size.

## 5. Error prevention

This screenshot shows a 'Create Article' form. At the top, there is a navigation bar with 'Logo', 'Home', 'Article Search', 'Link', 'Profile' (with a green checkmark icon), and a 'Role' dropdown menu. Below the navigation is a red horizontal bar containing the text 'Error Message Here'. The main form area has a 'Title' field with the placeholder 'Give the title for your articles' and an 'Intro' field below it. There are small 'X' icons on either side of the red error message bar.

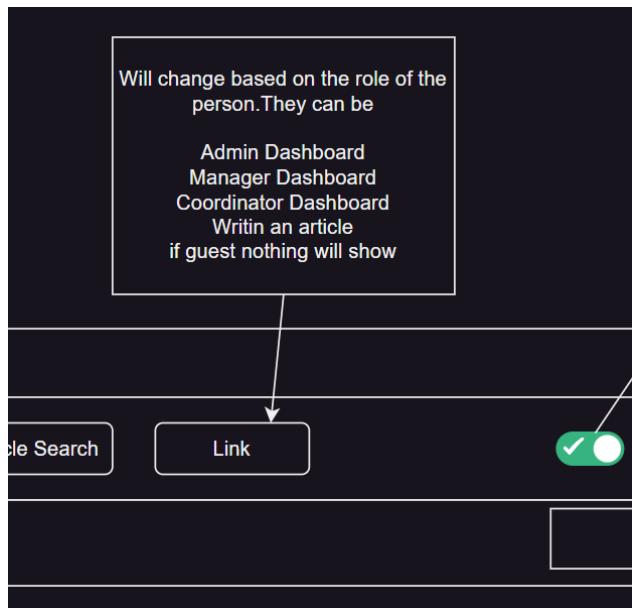
A good design should always prevent problems from occurring. The users might accidentally click the button they did not mean to or write something that should not be wrote. By showing error messages, it can prevent unnecessary errors and user frustration. In our design, if user made something wrong, error message will be shown in red color.

## 6. Recognition rather than recall



A good design can minimize the user's memory load by making elements, actions, and options visible. The user does not need to remember information from one part of the interface to another. Humans have limited short-term memories and interfaces that promote recognition reduce the amount of cognitive effort required from users. In our design, users can see what they chose before and can make decisions on next step.

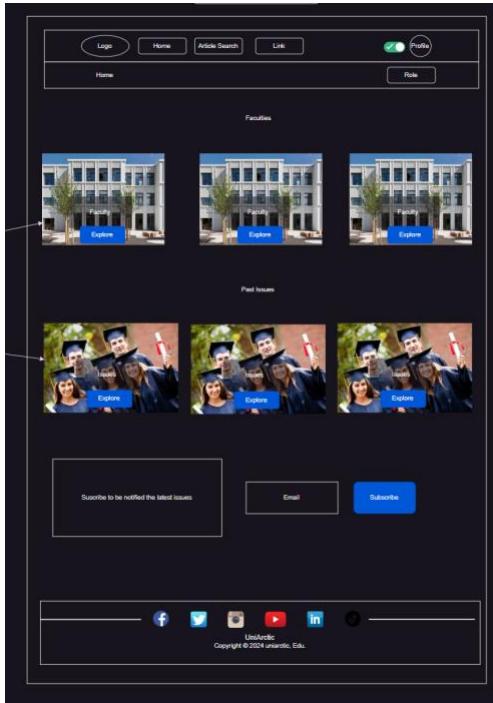
## 7. Flexibility and efficiency of use



Not all users are new and need to read and learn the whole system. Shortcuts can speed up the interaction for the expert user so that the design can cater to both inexperienced and experienced

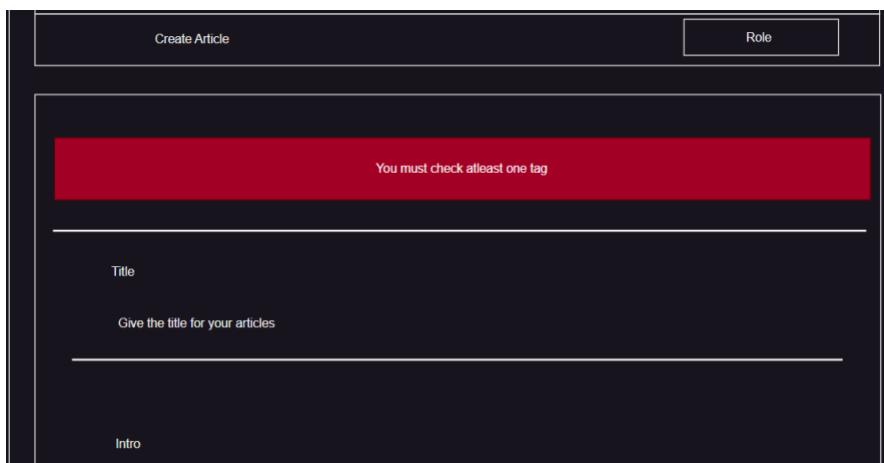
users. In our design, there is a button that will lead to certain page according to the roles without needing to explore the whole page.

## 8. Aesthetic and minimalist design



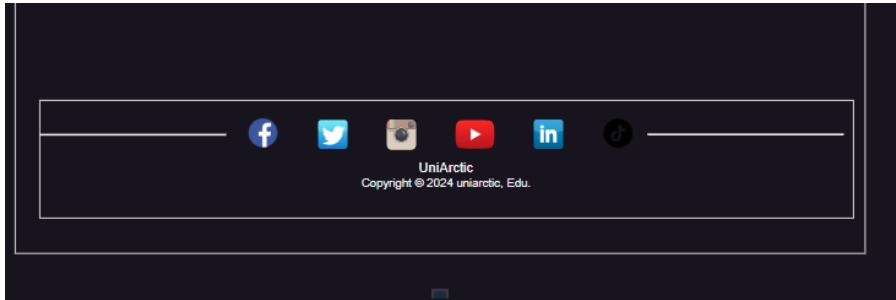
The interface should only present essential information, avoiding clutter and distractions while maintaining visual appeal. In our design, we only put necessary information and classify the data with related topics. We also used simple fonts and colors so that nothing can overwhelm and distract the users.

## 9. Help users recognize, diagnose, and recover from errors



Error messages should be in plain language, precisely indicating the problem and offering constructive guidance on how to fix it. In our design, for example, if the user did not check any tags and try to submit the article, the error message of “You must check at least one tag” is shown.

## 10. Help and documentation



The system may need additional explanation. It is necessary to provide documentation to help users understand how to complete their tasks. In our design, we provide contact details if users want to know more information about us.

<https://aelaschool.com/en/interactiondesign/10-usability-heuristics-ui-design/>

## Conclusion

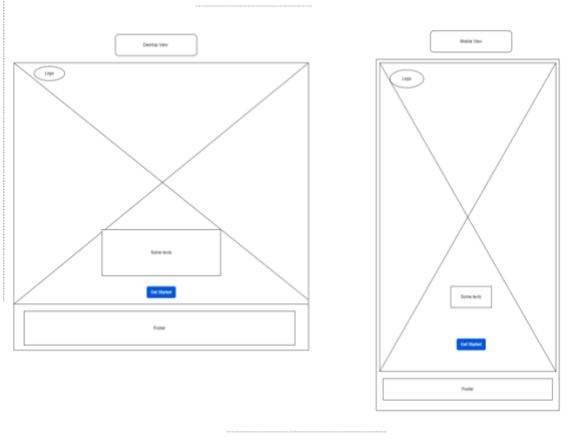
In this project, the agile methodology is used for creating plans, assigning role for the team members managing the whole project task with deadlines and soothing the workflow by making sprints for each timebox. Scrum is used for the framework of the project and as this project is a small type of project and consisting of a group of seven people, so it is the most suitable. The software tools which are utilized for agile is Jira, which is capable of planning, tracking, and managing the workflow of the project. Laravel, PHP, NodeJS, HTML5, CSS, JavaScript, and Tailwind CSS is utilized for the coding process of the program along with the PGSQl (PostgreSQL) for the database. The program contains key functions as in Register function, Login function, submit function (e.g. for articles and issues), Search function (e.g. for articles, issues, users, etc.), download functions (e.g. for articles and yearly magazine), and Admin functions which contains that of admins, manager, and coordinator. Also, the tests for the functionalities of the web application are shown with test plans and test logs for each function. The flow of the scrum process for this project is first creating a project in the Jira, adding backlog into the project, categorize the backlog into sprints according to their importance, invite members to the project, assign the decided roles and tasks to the specific members, predict the timeline for each sprints and their tasks, manage the tasks such as changing the status of the tasks and create burndown chart. All the process are discussed before coming into plan.

# Appendix

## Designs

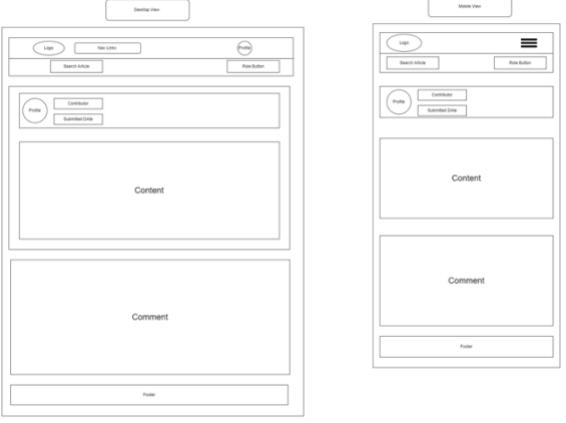
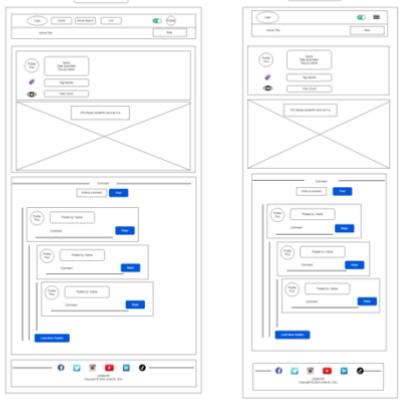
### Welcome Page

This is the landing page of the UniArctic website. Some of the website information can be seen on this page such as the number of students, published articles etc.

<i>Low-Level Design</i>	<i>High-Level Design</i>
	

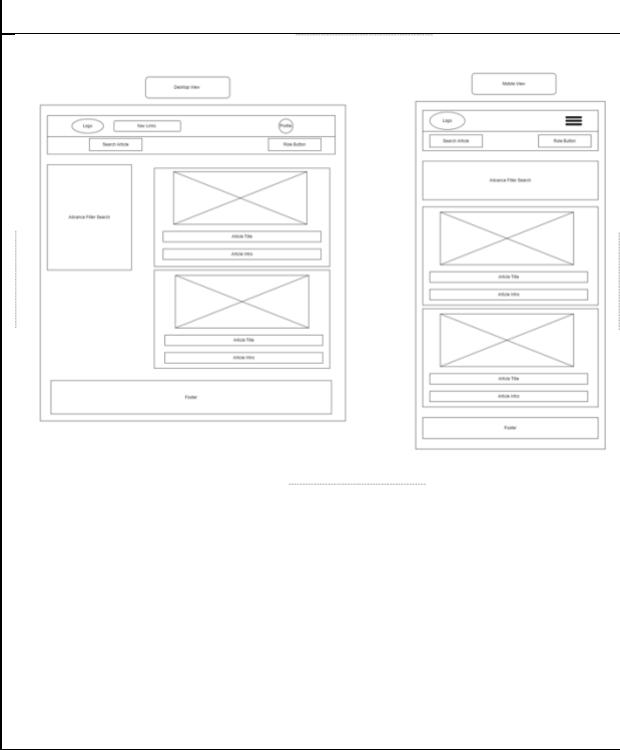
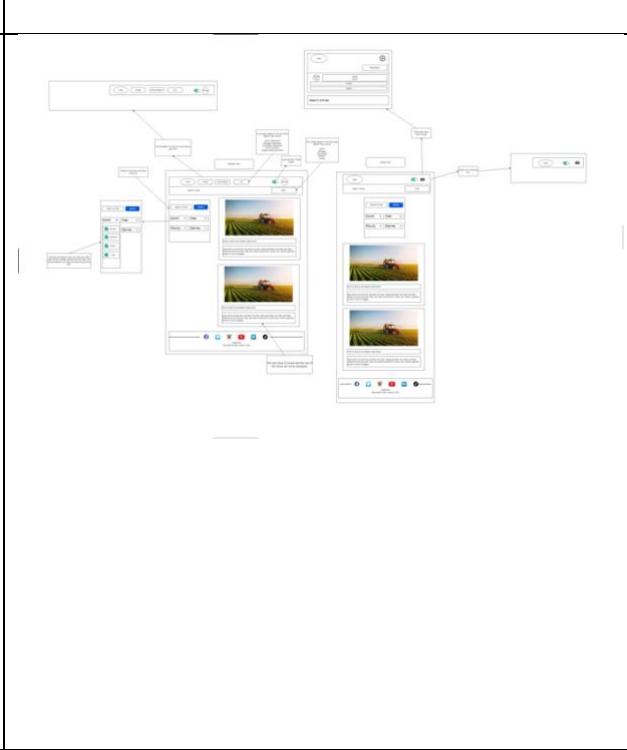
## **Article Page**

This is the page where users of our website can view the published articles and comment on them.

<b>Low-Level Design</b>	<b>High-Level Design</b>
	

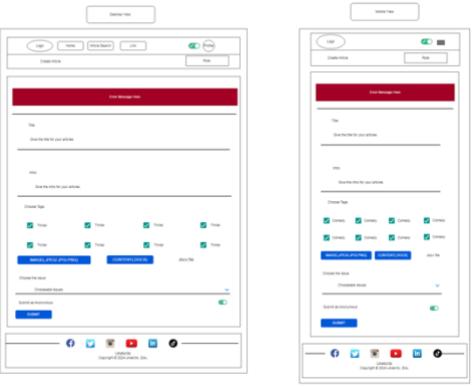
## **Article Search Page**

This is the page for searching articles. Users can search using filters such as Month, Year, Genres or Faculties. They can also use a name as a parameter to search.

<b>Low-Level Design</b>	<b>High-Level Design</b>
 <p>The Low-Level Design section contains two wireframe prototypes. The left one, labeled 'Desktop View', shows a header with 'Login', 'New User', 'Logout', and 'Home Button'. Below is an 'Advance Filter Search' section with three large input fields containing 'Article Title' and 'Article Desc'. The right side features a grid of article cards with titles like 'Agriculture', 'Smart Irrigation', 'AI in Crop Monitoring', and 'Yield Prediction'. The bottom has a footer with links. The right one, labeled 'Mobile View', follows a similar structure but is optimized for mobile screens with a sidebar menu icon and a more compact layout for the article cards.</p>	 <p>The High-Level Design section is a flowchart illustrating the system architecture. It shows the 'Article Search Page' (represented by the wireframes) connected to a central database and various external services. These include a 'User Authentication Service', a 'Content Delivery Network' (CDN), a 'Machine Learning Model', and a 'Cloud Storage'. The flowchart also depicts interactions with 'Social Media', 'Email', and 'Analytics' platforms, indicating a complex integration of data and user interactions.</p>

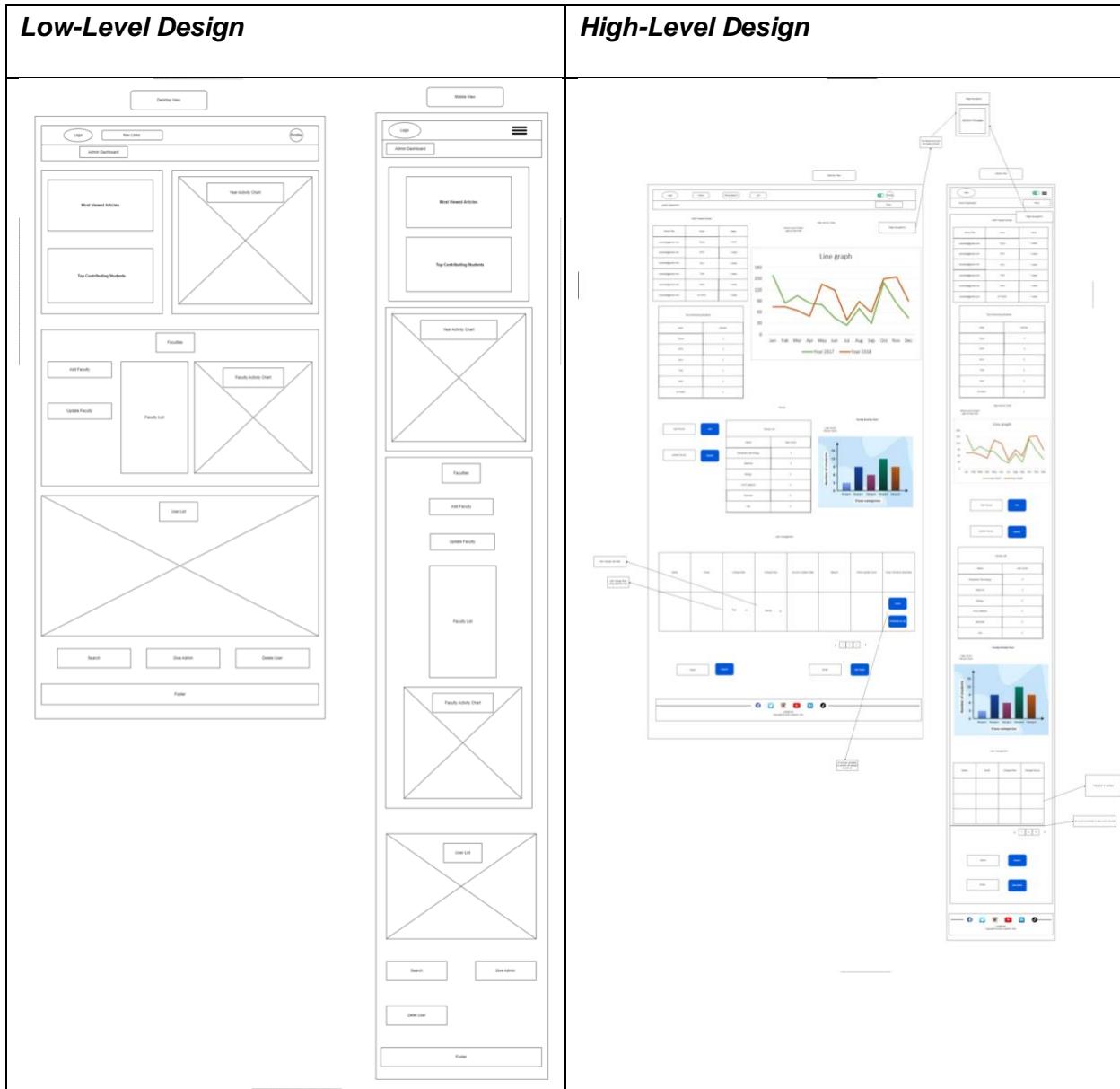
## **Create Article Page**

Students can submit their articles to their respective coordinators by uploading the .docx file and filling the fields that are in the form.

<b>Low-Level Design</b>	<b>High-Level Design</b>
 <p>The low-level design consists of two wireframes: a desktop view and a mobile view. Both views include a header with 'Login', 'New User', 'Create Article', and a user icon. The desktop view has sections for 'Title', 'Thumbnail', 'Info', 'Thumbnail', 'Tags', 'Checklist Tags', 'Image Button', 'File Button', 'File Name', 'Magazine issue', 'Selection', 'Anonymous Submitter', 'Terms and Conditions', and a 'Submit' button. The mobile view has similar sections but with a different layout and includes a navigation menu icon.</p>	 <p>The high-level design shows the same desktop and mobile views as the low-level design, but with more detailed styling. The desktop version features a red header bar with 'Create Article' and a dark footer with social media icons. The mobile version includes a navigation bar at the top and a footer with social media icons.</p>

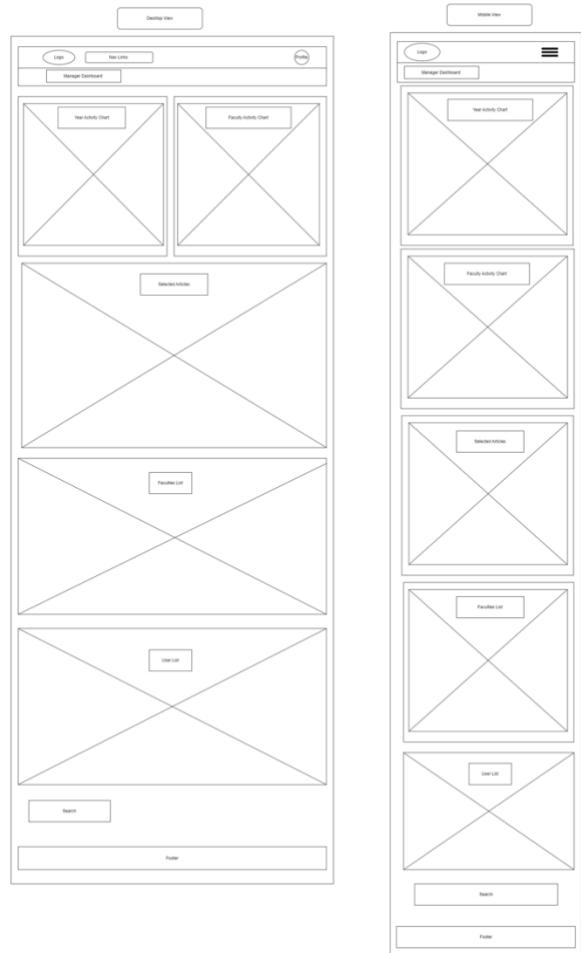
## **Admin Side**

Admin can check the website's stats such as most popular articles and who contributes the most. Issues are also managed by admin and articles can be downloaded either as individual articles or yearly. User management includes giving other accounts to admin role and deleting them.

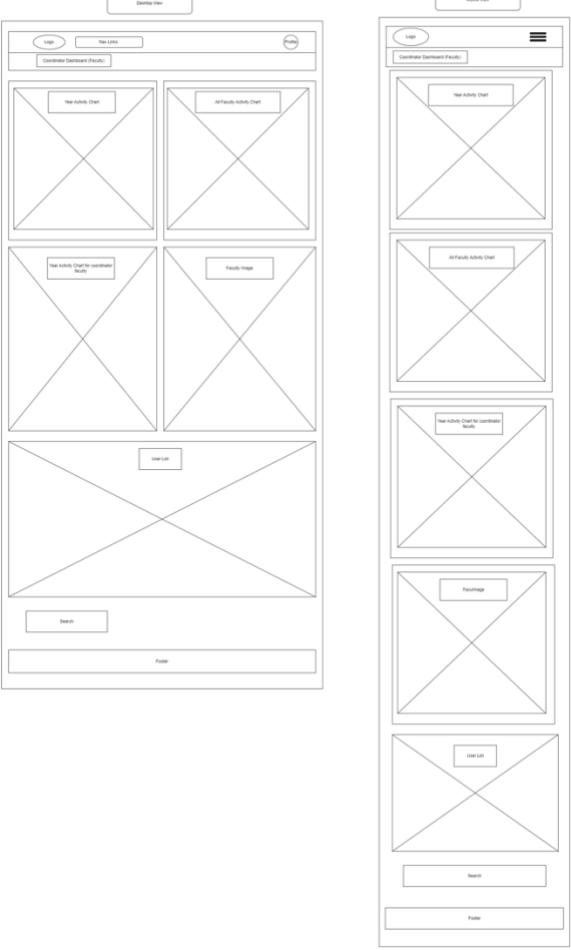
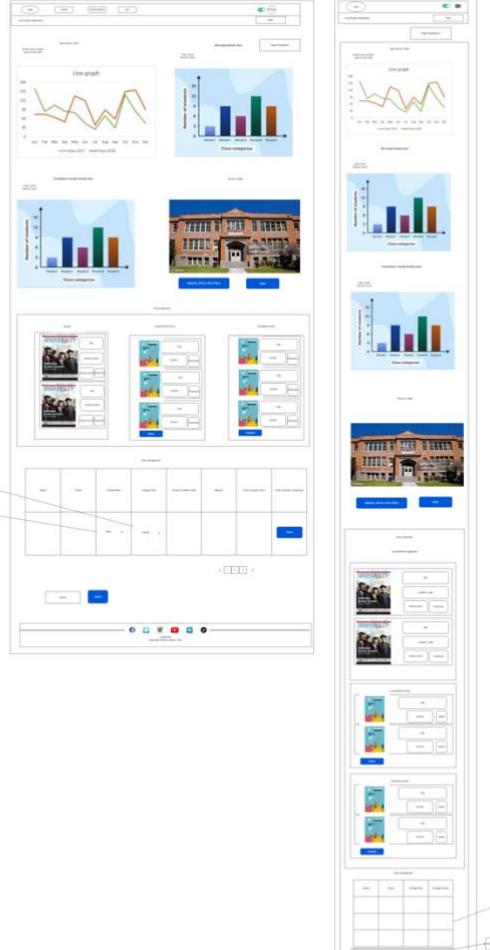


### **Manager Side**

Manager can check the articles' stats for all faculties. Issues can also be managed by manager. Articles can only be downloaded as individual articles. User management is limited to coordinator role.

<b>Low-Level Design</b>	<b>High-Level Design</b>
 <p>The low-level design consists of several wireframes for the Manager side:</p> <ul style="list-style-type: none"><li><b>Manager Dashboard:</b> Shows a grid of four charts: "Year Activity Chart" and "Faculty Activity Chart" in the top row, and "Selected Article" and "Faculties List" in the bottom row.</li><li><b>Selected Article:</b> A detailed view of an article with sections for "Title", "Content", "Comments", and "Downloads".</li><li><b>Faculties List:</b> A list of faculty names.</li><li><b>User List:</b> A list of user names.</li><li><b>Search:</b> A search bar.</li><li><b>Footer:</b> Standard footer elements.</li></ul>	 <p>The high-level design for the Manager Dashboard includes:</p> <ul style="list-style-type: none"><li><b>Line graph:</b> Visualizes data over time (Year 2017, Year 2018).</li><li><b>Bar chart:</b> Visualizes data across categories (Faculty, Year).</li><li><b>Table:</b> Displays detailed data in a tabular format.</li><li><b>Search:</b> A search bar.</li><li><b>Footer:</b> Standard footer elements.</li></ul> <p>A callout arrow points from the "Selected Article" section of the low-level design to the "Selected Article" section of the high-level design, indicating a more detailed view in the high-level design.</p>

## **Coordinator Side**

<b>Low-Level Design</b>	<b>High-Level Design</b>
 A series of five wireframe screens for the Coordinator side. The first screen shows a dashboard with four large boxes labeled 'Year Activity Chart', 'All Faculty Activity Chart', 'Year Activity Chart for coordinator results', and 'Faculty Image'. The second screen shows a 'Faculty Activity Chart' with a bar chart and a line graph. The third screen shows a 'Faculty Activity Chart' with a bar chart and a line graph. The fourth screen shows a 'Year Activity Chart for coordinator results' with a bar chart and a line graph. The fifth screen shows a 'Faculty Image' with a search bar and a footer.	 A series of five high-level design mockups for the Coordinator side. The first screen shows a dashboard with a line graph, a bar chart, and a building image. The second screen shows a 'Faculty Activity Chart' with a bar chart and a line graph. The third screen shows a 'Faculty Activity Chart' with a bar chart and a line graph. The fourth screen shows a 'Year Activity Chart for coordinator results' with a bar chart and a line graph. The fifth screen shows a 'Faculty Image' with a search bar and a footer. Arrows indicate the flow from the low-level design wireframes to the high-level design mockups.

## Testing logs

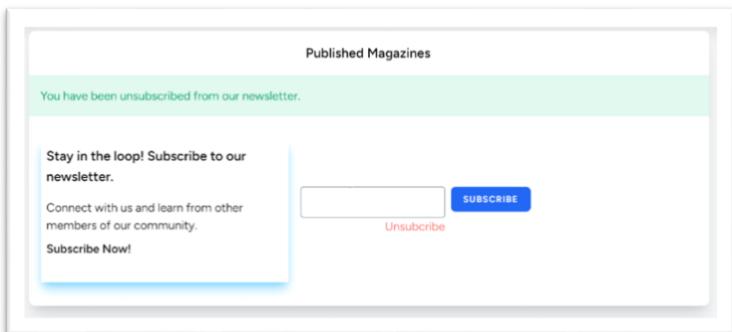
### Home Page

Unit Test 1		Test Case: Home pages unsubscribe button test	Designed by: Nyan Lin Htet	
Data Source:		Objective: User is unsubscribed	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
1.3	Unsubscribe to newsletter	The 'Unsubscribe' button is clicked after subscribing.	'you have been unsubscribed from our newsletter' message is shown.	'you have been unsubscribed from our newsletter' message is shown.

### Before Testing



### After Testing



## Register Page

<b>Unit Test 2</b>		<b>Test Case: Register page register button testing.</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Register page</b>		<b>Objective: Error message for not filling Faculty ID</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
2.4	Faculty selection testing	The 'register' button is clicked without selecting the faculty ID.	'the faculty id field is required' message is shown.	It shows error message in red color and prevent from registering.

**Before Testing**

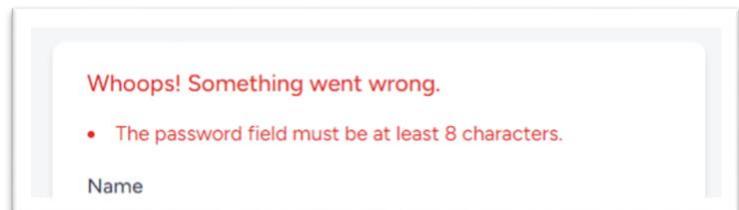
**After Testing**

<b>Unit Test 2</b>		<b>Test Case: Register page register button testing.</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Register page</b>		<b>Objective: Error message for filling less than 8 in password field</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>

2.5	Password length testing	The 'register' button is clicked after adding 7 character in the password	'the password field must be at least 8 characters' message is shown.	It shows error message in red color prevent from registering.
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**Before Testing**

**After Testing**



Unit Test 2		Test Case: Register page register button testing.	Designed by: Nyan Lin Htet	
Data Source: Register page		Objective: Error message for adding different password in two password field	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
2.6	Password confirmation testing	The 'register' button is clicked after adding different characters in each password field	'the password field confirmation does not match'	It shows error message and prevent from registering.

			message is shown.	
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## Before Testing

A screenshot of a web-based registration form. The form includes fields for Name, Email, Faculty (a dropdown menu), Password, and Confirm Password. There is also a checkbox for agreeing to the Terms of Service and Privacy Policy, and a 'REGISTER' button at the bottom.

## After Testing

A screenshot of the same registration form after a test was run. An error message 'Whoops! Something went wrong.' is displayed prominently. Below the message, a list states 'The password field confirmation does not match.' and shows the entered name 'Kuro' in a text input field.

Unit Test 2		Test Case: Register page register button testing.	Designed by: Nyan Lin Htet	
Data Source: Register page		Objective: Error message for not clicking check box	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
2.7	Check box testing	'register' button is clicked without clicking the check box	'Please check this box if u want to proceed' message is shown.	It shows error message and prevent from registering

## Before Testing

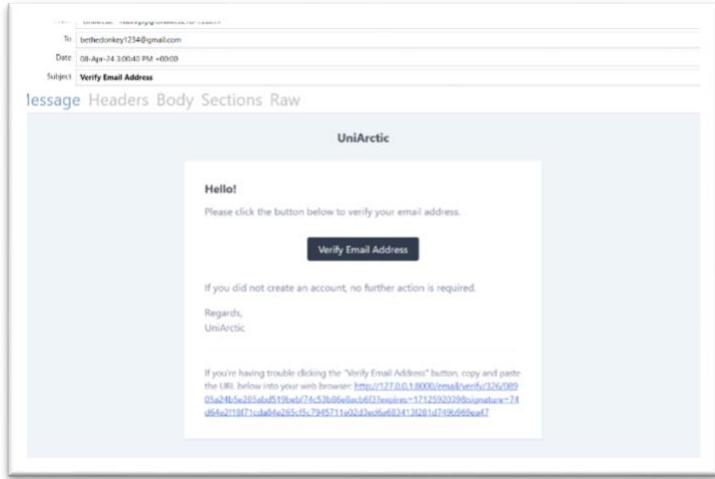
A screenshot of a web-based registration form. The form includes fields for Name, Email, Faculty (a dropdown menu), Password, and Confirm Password. At the bottom, there is a checkbox for agreeing to the Terms of Service and Privacy Policy, followed by a link 'Already registered?' and a blue 'REGISTER' button.

## After Testing

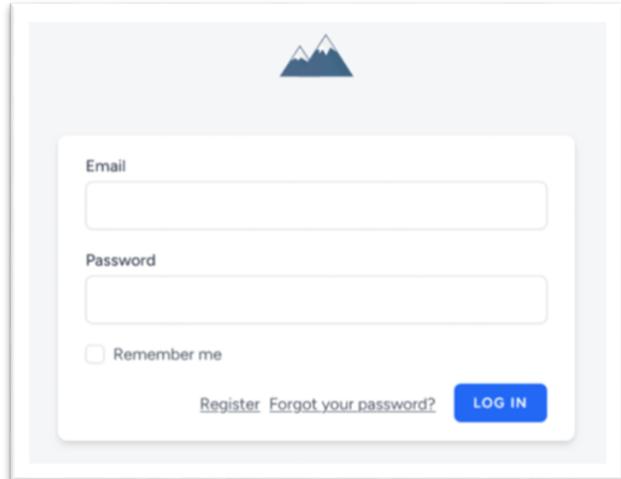
A screenshot of the same registration form after testing. A prominent red error message box is overlaid on the page, containing the text 'Please check this box if you want to proceed.' Below the message box is the 'REGISTER' button.

Unit Test 2		Test Case: Register finished testing	Designed by: Nyan Lin Htet	
Data Source: Register page		Objective: Lead the user to login page	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
2.10	Register testing	Verifying the email and check the unfinished page again.	The user is taken to the login page and can now login to the page.	The system leads the user to the login page

## Before Testing



## After Testing



## Login Page

<b>Unit Test 3</b>		<b>Test Case: Login function testing</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Login page</b>		<b>Objective: Error message for not using '@' in the email field</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
3.2	Email '@' testing	Clicking the 'Login' button without adding '@' in the email address field	'please include an '@' in the email address' message is shown.	The system shows error message and prevent from logging to account and ask to use '@'

## Before Testing

Email  
kmh

Password  
\*\*\*\*\*

Remember me

[Register](#) [Forgot your password?](#) [LOG IN](#)

## After Testing

Email  
kmh

**Please include an '@' in the email address. 'kmh' is missing an '@'.**

Remember me

[Register](#) [Forgot your password?](#) [LOG IN](#)

Unit Test 3		Test Case: Login function testing	Designed by: Nyan Lin Htet	
Data Source: Login page		Objective: Error message for not filling the correct password	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
3.3	Password testing	Clicking the 'Login' button after adding the wrong password for the account	'These credentials do not match our records' message is shown.	The system shows error message and prevent from logging into the account

## Before Testing

Email  
kuro5520@gmail.com

Password

Remember me

[Register](#) [Forgot your password?](#) **LOG IN**

## After Testing

Whoops! Something went wrong.

- These credentials do not match our records.

Email  
kuro5520@gmail.com

Password

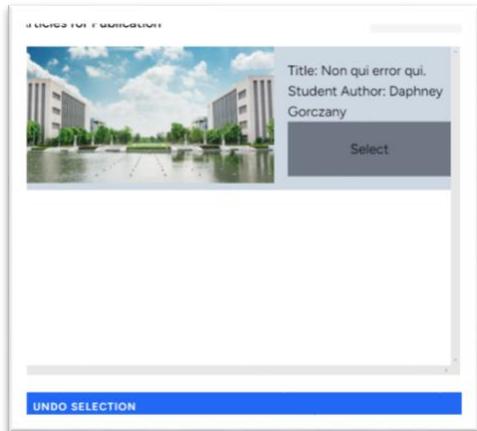
Remember me

[Register](#) [Forgot your password?](#) **LOG IN**

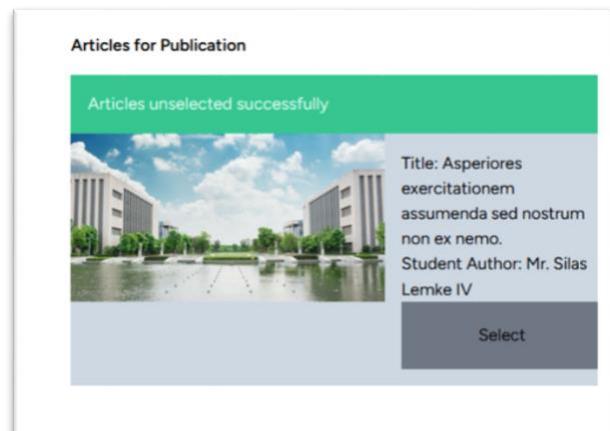
## Coordinator Page

<b>Unit Test 4</b>		<b>Test Case: Article selection undo button test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source:</b>		<b>Objective: Confirmation message of unselecting articles</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
4.2	Articles unselect	The selected article or articles are chosen and ‘undo selection’ button is clicked.	‘Articles unselected successfully’ message is shown.	Article is successfully unselected.

## Before Testing

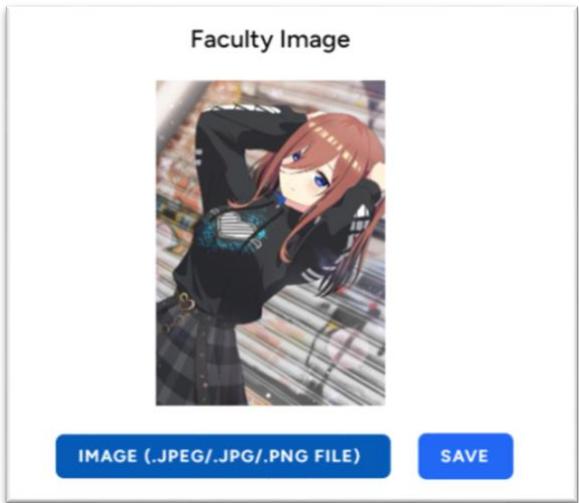


## After Testing

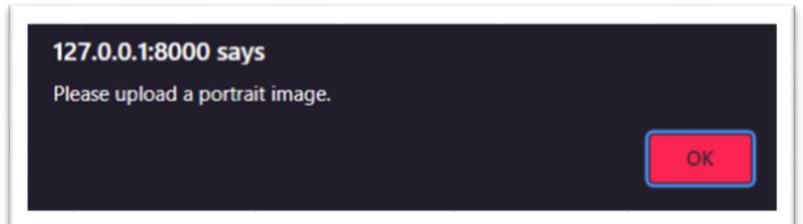


<b>Unit Test 4</b>		<b>Test Case: Faculty image uploading button test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source:</b>		<b>Objective: Error message of uploading faculty image incorrectly</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
4.5	Upload incorrect faculty image	An image rather than a portrait image is selected 'save' button is clicked.	'please upload a portrait image' message.	The error message to upload a portrait image is shown.

## Before Testing

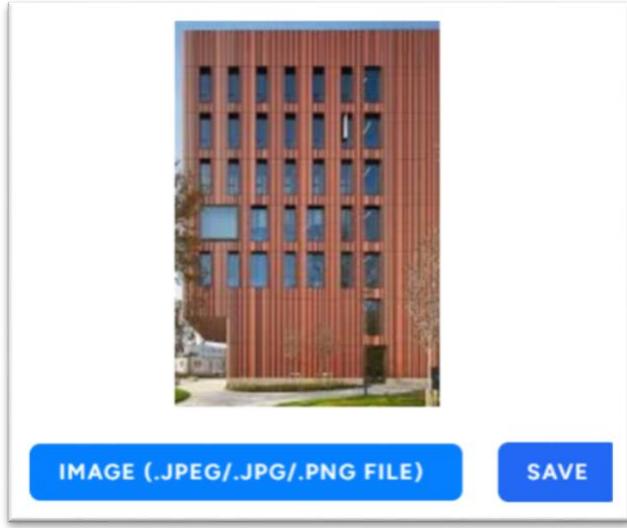


## After Testing

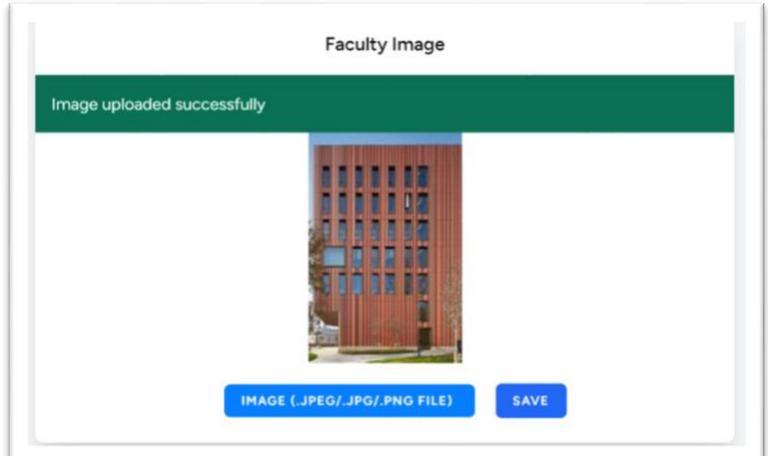


<b>Unit Test 4</b>		<b>Test Case: Faculty image uploading button test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Faculty image</b>		<b>Objective: Confirmation message of uploading faculty image</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
4.6	Upload correct faculty image	A portrait image is selected and 'save' button is clicked.	'image uploaded successfully' message.	Faculty image is successfully uploaded

### Before Testing



### After Testing



### Marketing Manager Page

Unit Test 5		Test Case: Same Issue name test	Designed by: Nyan Lin Htet	
Data Source: Create monthly issue		Objective: Issues having the same name is prevented	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
5.2	Same Issue Name Test	The already existing issue name is filed and the 'save' button is clicked.	'The issue name has already been taken' message is shown.	The error prevention message is shown

## Before testing

Create a Monthly Issues

Issue Name:  
corrupti

Month and Year:  
Select Month and Year

Image Preview

IMAGE(.JPEG/.JPG/.PNG)

SAVE

## After testing

Create a Monthly Issues

The issue name has already been taken. (and 1 more error)

Issue Name:

Month and Year:  
Select Month and Year

Image Preview

IMAGE(.JPEG/.JPG/.PNG)

SAVE

<b>Unit Test 5</b>		<b>Test Case: Monthly Issue Month and Year selection test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Create monthly issue</b>		<b>Objective: The list field invalidation is prevented</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
5.3	Monthly Issue Month and Year selection test	The 'save' button is clicked without month and year being selected.	The error prevention message is shown.	'please select an item in the list' message is shown.

## Before testing

Create a Monthly Issues

Issue Name:  
quam

Month and Year:  
Select Month and Year



IMAGE(.JPEG/.JPG/.PNG)

SAVE

## After testing

Create a Monthly Issues

Issue Name:  
quam

Month and Year:  
Select Month and Year

Please select an item in the list.



IMAGE(.JPEG/.JPG/.PNG)

SAVE

<b>Unit Test 5</b>		<b>Test Case: Monthly Issue Image select test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Create monthly issue</b>		<b>Objective: The invalid image selection is prevented</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
5.4	Monthly Issue image select test	The 'save' button is clicked without selecting an image in the image field.	The error prevention message is shown.	'The image field is required' message is shown.

## Before testing

Create a Monthly Issues

Issue Name:  
quam

Month and Year:  
May 2024

**IMAGE(.JPEG/.JPG/.PNG)**

**SAVE**

## After testing

Create a Monthly Issues

The image field is required.

Issue Name:

Month and Year:  
Select Month and Year

**IMAGE(.JPEG/.JPG/.PNG)**

**SAVE**

<b>Unit Test 5</b>		<b>Test Case: Monthly Issue create test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Monthly Issue create</b>		<b>Objective: to successfully create an issue</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
5.5	Monthly issue create test	The 'save' button is clicked after filled out the required fields.	The confirmation message is shown.	'An issue has been created successfully' message is shown.

## Before testing

Create a Monthly Issues

Issue Name: quam

Month and Year: May 2024



**IMAGE(.JPEG/.JPG/.PNG)**

**SAVE**

## After testing

An issue has been created successfully

Issue Name:

Month and Year: Select Month and Year



**IMAGE(.JPEG/.JPG/.PNG)**

**SAVE**

<b>Unit Test 5</b>		<b>Test Case: Monthly issue update test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Monthly</b>		<b>Objective: To update the credential within the issue</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
5.6	Monthly issue update test	The 'save' button is clicked after making changes to the issue.	The issue is updated.	'an issue was updated successfully' message is shown.

## Before testing

**Make Changes to Monthly Issue**

Monthly Issues:

Select an Issue:

Issue Name:

Status:

Previous Image      Update Image      Image Preview



**IMAGE(.JPG/.JPEG/.PNG)**

**SAVE**

## After testing

**Make Changes to Monthly Issue**

An Issue was updated successfully.

Monthly Issues:

occaecati February 2024

Issue Name:

Status:

Previous Image      Update Image      Image Preview



**IMAGE(.JPG/.JPEG/.PNG)**

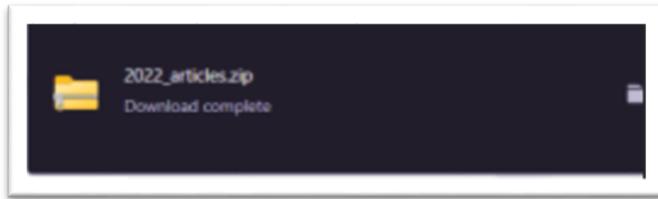
**SAVE**

Unit Test 5		Test Case: Download year magazine	Designed by: Nyan Lin Htet	
Data Source: Download Year magazine		Objective: To download the selected year magazine	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
5.10	Download Year magazine test	A year is selected from the list beside the 'Download year Magazine .ZIP' button and it is clicked.	The year magazine is downloaded	The year magazine is successfully downloaded.

## Before testing

A screenshot of a web page titled '2022 YEAR MAGAZINE'. It features a dropdown menu set to '2022' and a large blue button labeled 'DOWNLOAD YEAR MAGAZINE .ZIP'.

## After testing



## Admin Page

<b>Unit Test 6</b>		<b>Test Case: Monthly Issue invalidation test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Create Monthly Issue</b>		<b>Objective: To see the error prevention message</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
6.3	Monthly issue invalidation test	The 'save' button is clicked without filling out any credentials.	'please fill out this field' message is shown.	'please fill out this field' message is shown.

## Before testing

A screenshot of a 'Create a Monthly Issues' form. It includes fields for 'Issue Name' (empty), 'Month and Year' (dropdown menu 'Select Month and Year'), 'Image Preview' (empty), and buttons for 'IMAGE(.JPEG/.JPG/.PNG)' and 'SAVE'.

## After testing

A screenshot of the same 'Create a Monthly Issues' form after testing. The 'Month and Year' field now has an orange error message: 'Please fill out this field.' The other fields and buttons remain the same.

<b>Unit Test 6</b>		<b>Test Case: Same Issue name test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Create monthly issue</b>		<b>Objective: Issues having the same name is prevented</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
6.4	Same Issue Name Test	The already existing issue name is filed and the 'save' button is clicked.	'The issue name has already been taken' message is shown.	The error prevention message is shown

**Before testing**

Create a Monthly Issues

Issue Name:

Month and Year:

Select Month and Year

Image Preview

IMAGE(.JPEG/.JPG/.PNG)

SAVE

**After testing**

Create a Monthly Issues

The issue name has already been taken. (and 1 more error)

Issue Name:

Month and Year:

Select Month and Year

Image Preview

IMAGE(.JPEG/.JPG/.PNG)

SAVE

<b>Unit Test 6</b>		<b>Test Case: Monthly Issue Month and Year selection test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Create monthly issue</b>		<b>Objective: The list field invalidation is prevented</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>

6.5	Monthly Issue Month and Year selection test	The 'save' button is clicked without month and year being selected.	The error prevention message is shown.	'please select an item in the list' message is shown.
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## Before testing

Create a Monthly Issues

Issue Name: quam

Month and Year: Select Month and Year



IMAGE(.JPEG/.JPG/.PNG)

SAVE

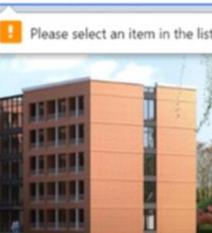
## After testing

Create a Monthly Issues

Issue Name: quam

Month and Year: Select Month and Year

! Please select an item in the list.



IMAGE(.JPEG/.JPG/.PNG)

SAVE

Unit Test 6		Test Case: Monthly Issue Image select test	Designed by: Nyan Lin Htet	
Data Source: Create monthly issue		Objective: The invalid image selection is prevented	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
6.6	Monthly Issue image select test	The 'save' button is clicked without selecting an image in the image field.	The error prevention message is shown.	'The image field is required' message is shown.

## Before testing

Create a Monthly Issues

Issue Name:  
quam

Month and Year:  
May 2024

**IMAGE(.JPEG/.JPG/.PNG)**

**SAVE**

## After testing

Create a Monthly Issues

The image field is required.

Issue Name:

Month and Year:  
Select Month and Year

**IMAGE(.JPEG/.JPG/.PNG)**

**SAVE**

Unit Test 6		Test Case: Monthly Issue create test	Designed by: Nyan Lin Htet	
Data Source: Monthly Issue create		Objective: to successfully create an issue	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
6.7	Monthly issue create test	The 'save' button is clicked after filled out the required fields.	The confirmation message is shown.	'An issue has been created successfully' message is shown.

## Before testing

Create a Monthly Issues

Issue Name: quam

Month and Year: May 2024



**IMAGE(.JPEG/.JPG/.PNG)**

**SAVE**

## After testing

An issue has been created successfully

Issue Name:

Month and Year: Select Month and Year



**IMAGE(.JPEG/.JPG/.PNG)**

**SAVE**

<b>Unit Test 6</b>		<b>Test Case: Monthly issue update test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Monthly</b>		<b>Objective: To update the credential within the issue</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
6.8	Monthly issue update test	The 'save' button is clicked after making changes to the issue.	The issue is updated.	'an issue was updated successfully' message is shown.

## Before testing

**Make Changes to Monthly Issue**

Monthly Issues:

Select an Issue:

Issue Name:

Status:

Previous Image      Update Image      Image Preview



**IMAGE(.JPG/.JPEG/.PNG)**

**SAVE**

## After testing

**Make Changes to Monthly Issue**

An Issue was updated successfully.

Monthly Issues:

occaecati February 2024

Issue Name:

Status:

Previous Image      Update Image      Image Preview



**IMAGE(.JPG/.JPEG/.PNG)**

**SAVE**

<b>Unit Test 6</b>		<b>Test Case: Monthly issue search test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Monthly Issue status</b>		<b>Objective: To search one or more issues by name</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
6.9	Monthly issue search test	The 'search' button is clicked after filling out the credentials in the search bar.	The searched issues are shown	The searched issues are shown.

## Before testing

**Monthly Issues Status**

Issue Name:

Status:

## After testing

**Monthly Issues Status**

Issue Name:

Status:

Issue Name	Year	Month	Publish	Article Count	Download Published
doloribus	2024	January	Unpublished	0	<input type="button" value="DOWNLOAD AS ZIP"/>
dolores	2023	February	Unpublished	0	<input type="button" value="DOWNLOAD AS ZIP"/>
dolorem	2024	February	Unpublished	1	<input type="button" value="DOWNLOAD AS ZIP"/>
doloremque	2022	September	Unpublished	1	<input type="button" value="DOWNLOAD AS ZIP"/>

[Upload Year Magazine](#)

<b>Unit Test 6</b>		<b>Test Case: Monthly Issue search filter test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Monthly Issues Status</b>		<b>Objective: To search the issues by filter</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
6.10	Monthly issue search filter test	The lists of status is selected and the 'search' button is clicked.	The searched issues are shown.	The searched issues are shown.

## Before testing

Status: Published  Year  Month

## After testing

Status: Published  2024  April

Issue Name	Year	Month	Publish	Article Count	Download Published
doloribus	2024	April	Published	2	<b>DOWNLOAD AS ZIP</b>

<b>Unit Test 6</b>		<b>Test Case: Monthly Issue download test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Monthly Issue Status</b>		<b>Objective: To download the .zip file of the issue</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
6.11	Monthly issue download test	The 'download as ZIP' button is clicked for the selected issue.	The .zip file of the issue is downloaded	The issue zip file has been successfully downloaded.

## Before testing

Monthly Issues

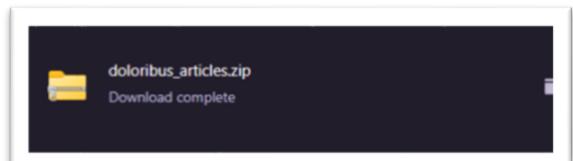
Monthly Issues Status

Issue Name:

Status: Published  Year  Month

Issue Name	Year	Month	Publish	Article Count	Download Published
doloribus	2024	April	Published	2	<b>DOWNLOAD AS ZIP</b>
dolorem	2022	August	Published	0	<b>DOWNLOAD AS ZIP</b>
dolorem	2023	July	Published	0	<b>DOWNLOAD AS ZIP</b>

## After testing

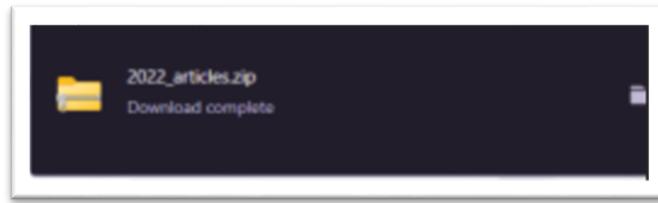


<b>Unit Test 6</b>		<b>Test Case: Download year magazine</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Download Year magazine</b>		<b>Objective: To download the selected year magazine</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
6.12	Download Year magazine test	A year is selected from the list beside the 'Download year Magazine .ZIP' button and it is clicked.	The year magazine is downloaded	The year magazine is successfully downloaded.

**Before testing**



**After testing**



### Search Article Page

<b>Unit Test 7</b>		<b>Test Case: Filter search by month test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source: Search article page</b>		<b>Objective: Searching the articles by filtering month</b>	<b>Tester: Kaung Myat Htun</b>	
<b>Test Case</b>	<b>Description</b>	<b>Test Procedure</b>	<b>Expected Result</b>	<b>Actual Results</b>
7.3	Search for articles by filtering the month of publishing	A month or two is selected in the list of months from the month radio box.	The articles submitted during the selected month are shown.	The articles from the selected month are successfully shown.

				searched and shown.
--	--	--	--	---------------------

## Before Testing

Search by title

**SEARCH**

Month  Year

3 Genres

## After Testing

search by title **SEARCH**

Month  Year

 3 Genres



Quia nostrum autem neque omnis sapiente.

Voluptatem nihil ipsum iure tenetur rem. Molestiae iusto atque quasi natus et esse aut. Veritatis deleniti sequi cum assumenda tempora. Dolorum et voluptas fugit aut. Magnam reiciendis et eum...

Unit Test 7		Test Case: Filter search by faculty	Designed by: Nyan Lin Htet	
Data Source: Search article page		Objective: Searching the articles by filtering faculty	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
7.4	Search for articles by filtering the faculty	A faculty is selected in the list of faculties from the faculty radio box.	The articles submitted depending on the faculty are shown.	The articles from the selected faculty are successfully searched and shown.

## Before Testing

Search by title  **SEARCH**

Month  Year

Faculty  Genres

Agriculture  
 Arts & Literature  
 Biology  
 Business  
 Engineering  
 Information Technology  
 Law  
 Medicine

Search by title  **SEARCH**

Month  Year

Faculty  Genres

Agriculture  
 Arts & Literature  
 Biology  
 Business  
 Engineering



Exercitationem eum ut sed doloribus voluptatem.

## Create Article page

<b>Unit Test 8</b>		<b>Test Case: Intro submission button test</b>	<b>Designed by:</b> Nyan Lin Htet	
<b>Data Source:</b> Create article page		<b>Objective:</b> Error message for invalid introduction	<b>Tester:</b> Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
8.2	Article submit intro invalidation test	The 'submit' button is clicked without filling the introduction field.	'Please fill out this field message is provided for shown.'	Error message is provided for invalid introduction.

## Before Testing

Title  
Intro  
Choose Tags

<input type="checkbox"/> Comedy	<input type="checkbox"/> Thriller	<input type="checkbox"/> Historical Fiction	<input type="checkbox"/> Literature	<input type="checkbox"/> Science
<input type="checkbox"/> Mystery	<input type="checkbox"/> Science Fiction	<input type="checkbox"/> Horror	<input type="checkbox"/> Fantasy	<input type="checkbox"/> Fashion

**IMAGE UPLOAD AND PRICE** **CONTENT LODES** .docx file

Today is March 10, 2024. March is the deadline for submitting articles for the current month.

Choose the Issue  
Journal March 2024

Submit as Anonymous  
 I agree to the [Terms of Service](#) and [Privacy Policy](#)

**SUBMIT**

## After Testing

Title  
Lorem

Intro  
|

Choose Tags

**!** Please fill out this field.

<b>Unit Test 8</b>		<b>Test Case: Tag submission button test</b>	<b>Designed by: Nyan Lin Htet</b>	
<b>Data Source:</b> Create article page		<b>Objective:</b> Error message for tag invalidation	<b>Tester:</b> Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
8.3	Article submit tag invalid test	The 'submit' button is clicked without checking any tag.	'You must check at least one tag'	Alert message of invalid tag. is shown.

## Before Testing

Title  
Intro  
This is intro for hello

Choose Tags

<input type="checkbox"/> Comedy	<input type="checkbox"/> Thriller	<input type="checkbox"/> Historical Fiction	<input type="checkbox"/> Literature	<input type="checkbox"/> Science
<input type="checkbox"/> Mystery	<input type="checkbox"/> Science Fiction	<input type="checkbox"/> Horror	<input type="checkbox"/> Fantasy	<input type="checkbox"/> Fashion



**IMAGE UPLOAD AND PRICE** **CONTENT LODES** Text.docx

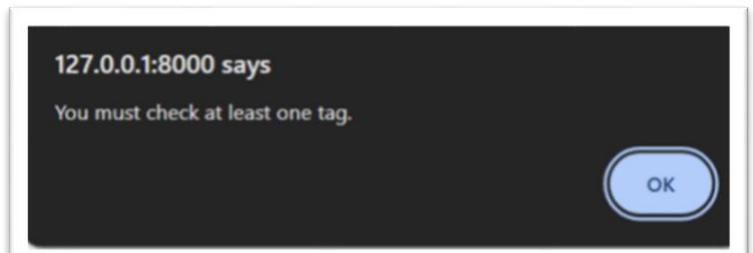
Deadline for this month is up. There is less than 14 days in the current month. Please submit your article for the next month.

Choose the Issue  
Journal May 2024

Submit as Anonymous  
 I agree to the [Terms of Service](#) and [Privacy Policy](#)

**SUBMIT**

## After Testing



<b>Unit Test 8</b>		<b>Test Case: Image submission button test</b>	<b>Designed by:</b> Nyan Lin Htet
<b>Data Source:</b> Create article page		<b>Objective:</b> Error message of image invalidation	<b>Tester:</b> Kaung Myat Htun
Test Case	Description	Test Procedure	Expected Result
8.4	Article submit image file invalid test	The 'submit' button is clicked without uploading any image files.	'Please select a file message' is shown.

## Before Testing

Title  
Hello

Intro  
This is [intro](#) for hello

Choose Tags

Comedy	Thriller	Historical Fiction	Literature	Science
Mystery	Science Fiction	Horror	Fantasy	Fashion

**IMAGE (.JPEG/.JPG/.PNG)** **CONTENT (.DOCX)** Test.docx

Today is April 19. 16th April is the deadline for submitting articles for the current month.  
Deadline for this month is up. There is less than 14 days in the current month. Please submit your article for the next month.

Choose the Issue  
 quam May 2024

Submit as Anonymous  
 I agree to the [Terms of Service](#) and [Privacy Policy](#)

**SUBMIT**

## After Testing

Choose Tags

Comedy	Thriller	Historical Fiction
Mystery	Science Fiction	Horror

**IMAGE (.JPEG/.JPG/.PNG)** **CONTENT (.DOCX)** Test.docx

Today is April 19. 16th April is the deadline for submitting articles for the current month.  
Deadline for this month is up. There is less than 14 days in the current month. Please submit your article for the next month.

Choose the Issue

<b>Unit Test 8</b>		<b>Test Case: Doc submission button test</b>	<b>Designed by:</b> Nyan Lin Htet
<b>Data Source:</b> Create article page		<b>Objective:</b> Error message of doc invalidation	<b>Tester:</b> Kaung Myat Htun
Test Case	Description	Test Procedure	Expected Result
8.5	Article submit doc file invalid test	The 'submit' button is clicked without uploading any doc files.	'Please select a file message' is shown.

## Before Testing

Title  
Hello

Intro  
This is intro for hello

Choose Tags

Comedy	Thriller	Historical Fiction	Literature	Science
Mystery	Science Fiction	Horror	Fantasy	Fashion



**IMAGE (.JPEG/.JPG/.PNG)** **CONTENT (.DOCX)** .docx file

Today is April 19. 16th April is the deadline for submitting articles for the current month.

Deadline for this month is up. There is less than 14 days in the current month. Please submit your article for the next month.

Choose the Issue  
April 2024

Submit as Anonymous  
 I agree to the [Terms of Service](#) and [Privacy Policy](#)

**SUBMIT**

## After Testing

Mystery

Science Fiction

Horror



**IMAGE (.JPEG/.JPG/.PNG)** **CONTENT (.DOCX)** .docx file

Today is April 19. 16th April is the deadline for submitting articles.

Deadline for this month is up. There is less than 14 days in the current month. Please submit your article for the next month.

Please select a file.

Choose the Issue

<b>Unit Test 8</b>		<b>Test Case: Terms and Conditions</b> testing button	Designed by: Nyan Lin Htet	
<b>Data Source:</b> Create article page		<b>Objective:</b> Error prevention to terms and conditions	Tester: Kaung Myat Htun	
Test Case	Description	Test Procedure	Expected Result	Actual Results
8.6	Article submit check box test	The 'submit' button is clicked without checking I agree to term of service and privacy policy check box.	'Please check this box if you want to proceed' message is shown.	Showing message of proceed to terms and conditions.

## Before Testing

Title

Intro

Choose Tags

Comedy	Thriller	Historical Fiction	Literature	Science
Mystery	Science Fiction	Humor	Fantasy	Fashion

IMAGE (.JPG/.GIF/.PNG)     CONTENT (.DOCX)   

Today is March 10, 19th March is the deadline for submitting articles for the current month.

Choose the Issue

omnis March 2024

Submit as Anonymous

I agree to the [Terms of Service](#) and [Privacy Policy](#)

**Submit**

## After Testing

I agree to the [Terms of Service](#) and [Privacy Policy](#)

**Please check this box if you want to proceed.**