

**IA512002 Fundamentals of Web Development**

**Assessment 2 – Individual Project - Part 2**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Study block** | Study Block 3 - 2024 | | | | | | |
| **Date issued** | 19/08/2024 | | | | | | |
| **Due dates** | 26/08/2024 (Report) | **Times** | | 08:30 | | | |
| **Delivery:** | Submit via Moodle before the deadline as a single ZIP file | | | | | | |
| **Weighting** | 20% | | | | | | |
| **Marks out of** | 20 | | | | | | |
| **Instructions** | 1. Complete this cover sheet. 2. Put the completed cover sheet and your report into a single folder using your first name as the folder name (e.g. pat) 3. ZIP the folder. 4. Submit the ZIP file via Moodle.  * This assignment must be your own work. * Collusion, copying or plagiarism may result in disciplinary action. * We advise that you keep a copy of this assignment. * Refer to following website for reference related resources:   <http://www.cite.auckland.ac.nz/index.php?p=quickcite> | | | | | | |
| **Student Name** | Bhanu | | | | | | |
| **Student ID No** | 1000124562 | | | | | | |
| **Lecturer** | Ganeshan | | **Class time** | | | Mon 8.30 – 12.30 pm  Wed 1:00 – 5:00 pm | |
| **Student declaration:** | I confirm that:  *This is an original assessment and is entirely my own work.*  *Where ideas, tables, diagrams etc. of other writers have been used, I have acknowledged the source in every case.*  *This assignment has not been, nor will be, submitted as assessed work for any other academic course.* | | | | | | |
| **Signature of student:** | A black and white drawing of a building  Description automatically generated | | | | **Date** | | 25 August 2024 |

­­­

**Project Report**

**Web app: Online Platform for a Peer-Reviewed Academic Journal**

**Bhanu Gupta**

**Roshan Aryal**

**25 August 2024**

Contents

[**Executive Summary** 4](#_Toc174970466)

[**Introduction** 4](#_Toc174970467)

[**Scope** 4](#_Toc174970468)

[**Use Cases** 4](#_Toc174970469)

[**Use Case Diagram** 4](#_Toc174970470)

[**Software Development Methodology** 6](#_Toc174970471)

[**Project timeline** 6](#_Toc174970472)

[**Known bugs and limitations** 6](#_Toc174970473)

[**Reflection** 6](#_Toc174970474)

[**Appendix: Source Code** 7](#_Toc174970475)

# Executive Summary

# In this project, I am developing a web application for managing the submission and review process of academic journals at Otago Polytechnic Auckland International Campus. The platform is designed to support multiple user roles, including authors, reviewers, and editors, to streamline the submission, review, and publication processes. I am using Node.js, Express, EJS, and SQLite to build this application.

# Introduction

# This project is therefore aimed at developing an effective and easily usable solution to meet the various challenges of the different academic journal submissions and reviewing process. I have aimed at developing a system that will help to reduce the complexity of the process for all the actors involved in the academic publishing industry.

# Scope

# In this project, I aim to develop a platform that includes:

# Authors: The ability of manuscripts submission and tracking the status of submissions, as well as the access to the comments provided by the reviewers.

# Reviewers: The access of manuscripts to which they are assigned, and the possibility to submit reviews/ recommendations.

# Editors: System to support the submission management, the reviewer’s assignment and the last decisions about publications.

# Readers: Online database of published articles integrated with searching mechanism and download capacities.

# Use Cases

# I intend to cover the following key use cases in this project:

# Submit Manuscript: The writers will be allowed to upload and submit research papers for the purpose of review.

# Review Manuscript: Manuscripts will be available to the reviewers, and they will be able to give their remarks through the platform.

# Manage Submissions: This means that editors will be involved at almost every step of the submission and the reviewing process of manuscripts, including the selection of the reviewers, and the final decision.

# (Editorial Manager and ProduXion Manager – an online submission and production tracking systems, 2023)

# Use Case Diagram

# 

# 

# Software Development Methodology

# I am employing the Agile methodology for this project, which allows for iterative development and continuous feedback. The project is broken down into three main phases:

# Phase 1: I will establish the basic structure of the platform and set up user roles (August 12 - August 15).

# Phase 2: I will focus on developing the submission system and review process (August 16 - August 23).

# Phase 3: I will complete the final touches and prepare the platform for deployment (August 24 - September 9).

# Project timeline

I have given a basic timeline here. A screenshot of a computer

Description automatically generated

# Known bugs and limitations

1. Session Management Issues: At times, user sessions can remain running and do not terminates as expected and, in such circumstances, it can pose a security threat. This will require more research, and possibly, using a stronger session management library.
2. File Upload Size Limit: The current setup allows storage of files limited to a maximum size of 10MB, which might be inadequate especially in manuscript submissions that may require high resolution images and or large datasets.
3. Cross-Browser Compatibility: There are certain limitations, and these are the CSS styling, and the JavaScript functionalities do not work optimally on all the browsers. Checks are needed to achieve same results across well-known browsers such as Chrome, Firefox, Safari, and Edge, etc.

# Reflection

# Challenges Encountered: Among these, I felt that the most difficult was adding the double-blind peer review feature; it is must to achieve anonymity of the authors and the reviewers. This needed attention to be paid on how the data and the user interface can be managed to avoid revealing the identities of the users.

# Lessons Learned: The project helped me realise the significance of testing the applications adequately and listening to the consumers. Due to the iterative process for test, many usability problems were found out that were previously unnoticed.

# Future Enhancements: I realized the potential for adding more interactive features, such as real-time collaboration tools for editors and reviewers, which could significantly enhance the usability of the platform. This is something I would like to explore in future updates.

# (Ethical Considerations in Journal Publishing: Plagiarism, Authorship, and Conflict of Interest, 2023)

# (Ensuring Blind Peer Review, n.d.)

# (Services, 2020)

**References**

# Bibliography

Agrawal, A. (2019, December 04). *Agile Methodology: Incremental and Iterative way of development*. Retrieved from Medium: https://medium.com/@ashutoshagrawal1010/agile-methodology-incremental-and-iterative-way-of-development-a6614116ae68

Bhanderi, B. (2024, June 12). *A Beginner’s Guide to Web Development*. Retrieved from creole studios: https://www.creolestudios.com/beginners-guide-web-development/

*Editorial Manager and ProduXion Manager – an online submission and production tracking systems*. (2023, March 15). Retrieved from sciendo: https://sciendo.com/blog/editorial-manager-and-produxion-manager-an-online-submission-and-production-tracking-systems

*Editorial Workflow Management*. (n.d.). Retrieved from Prepare@u: https://www.prepare.org.in/solutions/managed-editorial-workflow/#:~:text=Publication%20tracking%3A%20Once%20a%20manuscript,including%20typesetting%2C%20proofreading%2C%20and%20final

*Ensuring Blind Peer Review*. (n.d.). Retrieved from misinforeview: https://misinforeview.hks.harvard.edu/ensuring-blind-peer-review/

*Ethical Considerations in Journal Publishing: Plagiarism, Authorship, and Conflict of Interest*. (2023, August 4). Retrieved from linkedin: https://www.linkedin.com/pulse/ethical-considerations-journal-publishing-plagiarism/

Services, C. A. (2020, September 22). *Differences between Single-Blind and Double-Blind Peer Review*. Retrieved from cwauthors: https://www.cwauthors.com/article/What-are-the-Differences-between-Single-Blind-and-Double-Blind-Peer-Review

# Appendix: Source Code

# The complete source code for this project is hosted on GitHub, providing a platform for version control and collaborative development. The repository includes all the necessary files to set up and run the platform locally.

# Repository Link: [GitHub Repository Link](https://github.com/bhanuGupta1/Web-Development-project-Files)