

Report On

“Online Journal and peer Review Management System”

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ABSTRACT

This project research titled “Design and Implementation of an Online Scientific Journal and peer Review Management System is a web-based system which is aimed at using the potent ability of the Computer System to solve many of the challenges faced by the current manual system of Journal and Publication processes. It provides numerous benefits which include: Automation of the Submission process, review process and publication process. Contributors from any part of the world can submit their articles for assessment and publication, also reviewers can be assigned articles to review online without sending the hard copy to them and after the review process they can upload the reviewed article and fill the assessment form online for the contributor to view and download for corrections. With this system, Researchers, students, contributors can access all the published articles from any location in the world since the system is a web-based system. Online review process need to be improved as indicated by the result of the analysis obtained after administering the usability questionnaire to some users of the system.

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Introduction

As the need for online systems increases in our social, business and educational sector. There is also need for online systems in the Research and Publication area so as to make their activities easier and automated. Journals are mostly used by Researchers to publish their researches so that many people around the world can use the research for several purposes. Online Journal Management systems are designed for the purpose of reducing stress made by the contributors, journal managers and other researchers by converting the manual processes to online processes. Records and details of all activities carried out on the system can be traced easily and effectively

What is Online journal System

Online Journal Systems (OJS) is an open source software application for managing and publishing scholarly journals. Originally developed and released by PKP in 2001 to improve access to research, it is the most widely used open source journal publishing platform in existence, with over 10,000 journals using it worldwide.

How does Online journal System and peer review works

In the age of fake news peer-reviewed research has become one of the only sources of information inquiring minds can trust.

Peer review is a process of ensuring that new research is original and uses valid science. It is used in all areas of scientific and academic research activity from life sciences. In other words, peer review allows the scientific community to continuously put out high-quality information. Information that practitioners, researchers, and students can trust.

SCOPE OF THE STUDY

The scope of this project is to design a web-based (works on the web or internet) Journal management system that will enable researchers to know on the current news or events for the journal which include call for papers/articles, opening and closing date for submissions, submission guidelines, editorial board and other important information. It will also keep the information of all submissions and publications made for the journal. The Journal manager will be able to view and download all submissions made by contributors and will also be able to notify them on the status of their articles i.e. if their articles are accepted for publication or rejected. Also published articles can be used by other researchers from anywhere in the world.

AIM AND OBJECTIVES

- i. To design a system that will allow online submissions of articles for contributors and researchers instead of the manual system of submission.
- ii. To allow contributors to track their submissions i.e. every contributor can view all his submissions.
- iii. To enable the administrator to view and download all submissions made by contributors for the purpose of assessment before publication.
- iv. To allow the administrator to upload all published papers online according to their volumes and issues.

DESIGN AND IMPLEMENTATION

In this section, the design and implementation of the system is explained.

Interface

In other words, the system adapts the layout to the viewing environment such as large desktop monitors, laptops, tablets and mobile phones. Furthermore, client side programming languages such as jQuery have been used in the front-end of the system so that users get better interaction and the backend gets error free requests.

Features and Modules:

Generally, consists of four main Features and they are

Guests' module: This module is made where users of the system have role of guests (any visiting user). These users can navigate through the system and access all the available data on the Web such as searching and downloading accepted papers, searching for authors, and registering in the system to become authors. When users get registered in the system, henceforth the second module starts, and the users basically become authors.

Reviewers' module: To be a reviewer at the OJS a normal registration as authors is needed, but register as reviewer option from the registration form is needed to be selected. In this case, a request is sent to the editors of the JUOZ in order to confirm the acceptance. Similar to authors, reviewers will get their private control panel presenting several functions

Editors' module (Journal Committee): This module is specifically designed for editors (journal committee) to manage the journal. Editors need to register to the system similarly to authors, and they have to be approved by one of the registered editors in the system. Much the same as other two modules, editors have their own control panel but with a wider range of functionalities. In this section we will briefly explain the most important functions in this module. The papers' control panel, as from its name, is responsible for manipulating all incoming articles.

REQUIREMENTS ANALYSIS

Software Process Model To solve actual problems in an industry, software developer or a team of developers must incorporate a development strategy that encompasses the process, methods and tools layers and generic phases. This strategy is often referred to as process model or a software developing paradigm. A process model for software developing is chosen based on the nature of project and application, the methods and tools to be used, and the controls and deliverables that are required. All software development can be characterized as a problem solving loop in which four distinct stages are encountered: Status quo, Problem definition, technical development and solution integration. Regardless of the process model that is chosen for a software project all of the stages coexist simultaneously at some level of detail. The choice of the methodology to use was SSADM methodology. SSADM revolves around the use of three key techniques namely Logical Data Modeling, Data Flow Modeling, Entity/Event Modeling and the application of the Systems Development Life Cycle.

Tools & Technology:

Tools and technology that will be used to create the system in this project are given below

Technology used:

- Django Framework used for creating business logic and process inside the system.
- HTML,CSS, JavaScript, JQuery are used for designing the system.

Software requirements:

- PostgreSQL-13
- PgAdmin-4
- Text Editor(Visual studio Code)

HARDWARE REQUIREMENT

- The following are the minimum hardware requirements for the system
- Minimum of 128MB of RAM.
- ii. Minimum of 5GB HARD DISK.

- V.G.A color screen monitor.
- A keyboard.
- A mouse.

Use Case Diagram:

Use case diagrams are usually referred to as behavior diagrams used to describe a set of actions (use cases) that some system or systems (subject) should or can perform in collaboration with one or more external users of the system (actors). Each use case should provide some observable and valuable result to the actors or other stakeholders of the system.

use case diagram for user:

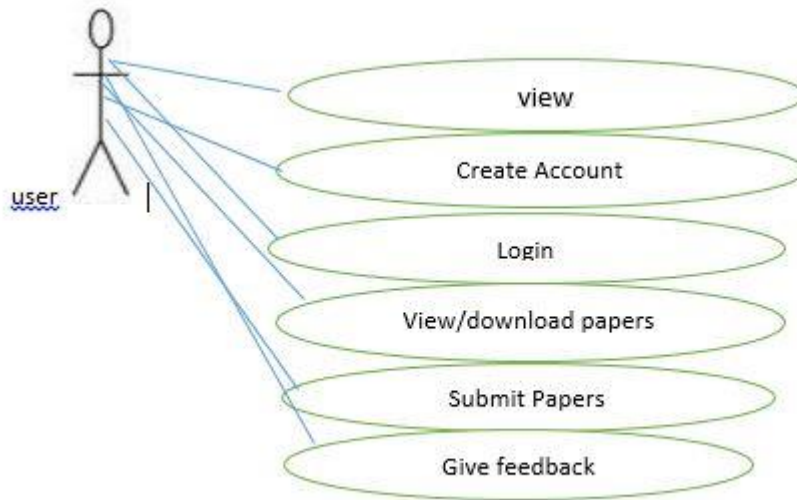


Fig1.1: user

use case diagram for reviewer:

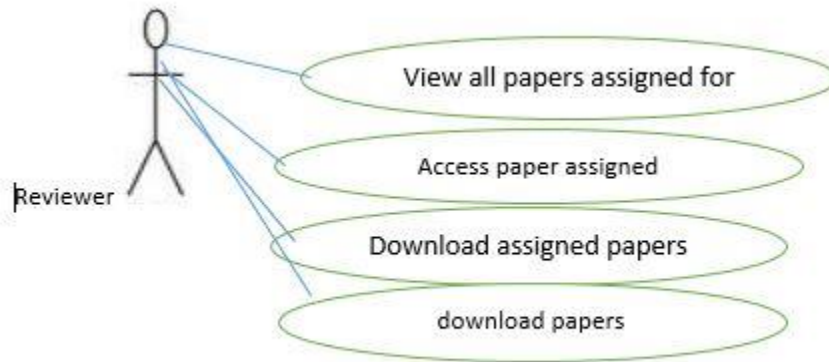


Fig1.2: reviewer

use case diagram for Editor:

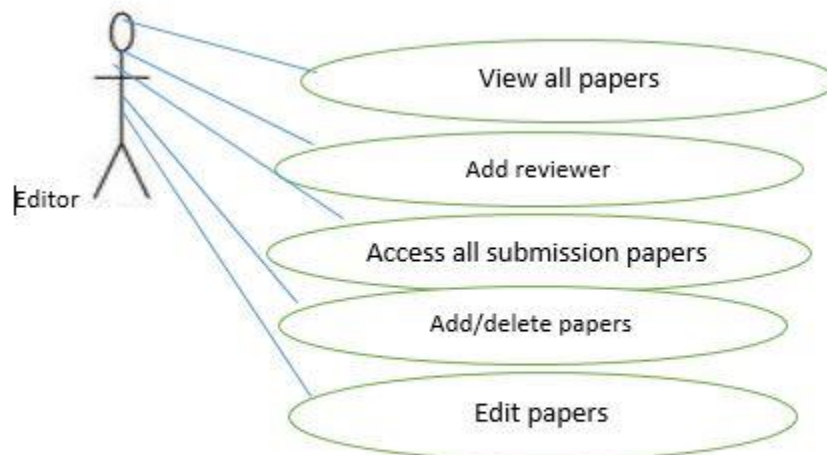


Fig1.3: Editor

USER INTERFACE IMPLEMENTATION

The user interface was implemented using software tools such as HTML, CSS, JavaScript, JQuery and JavaScript's, Django. These are the languages that were used to implement the user interface. Some of the pages for the system are shown below:

HOME PAGE:

The home page is the initial page that will be displayed to the user upon his/her visit to the system.

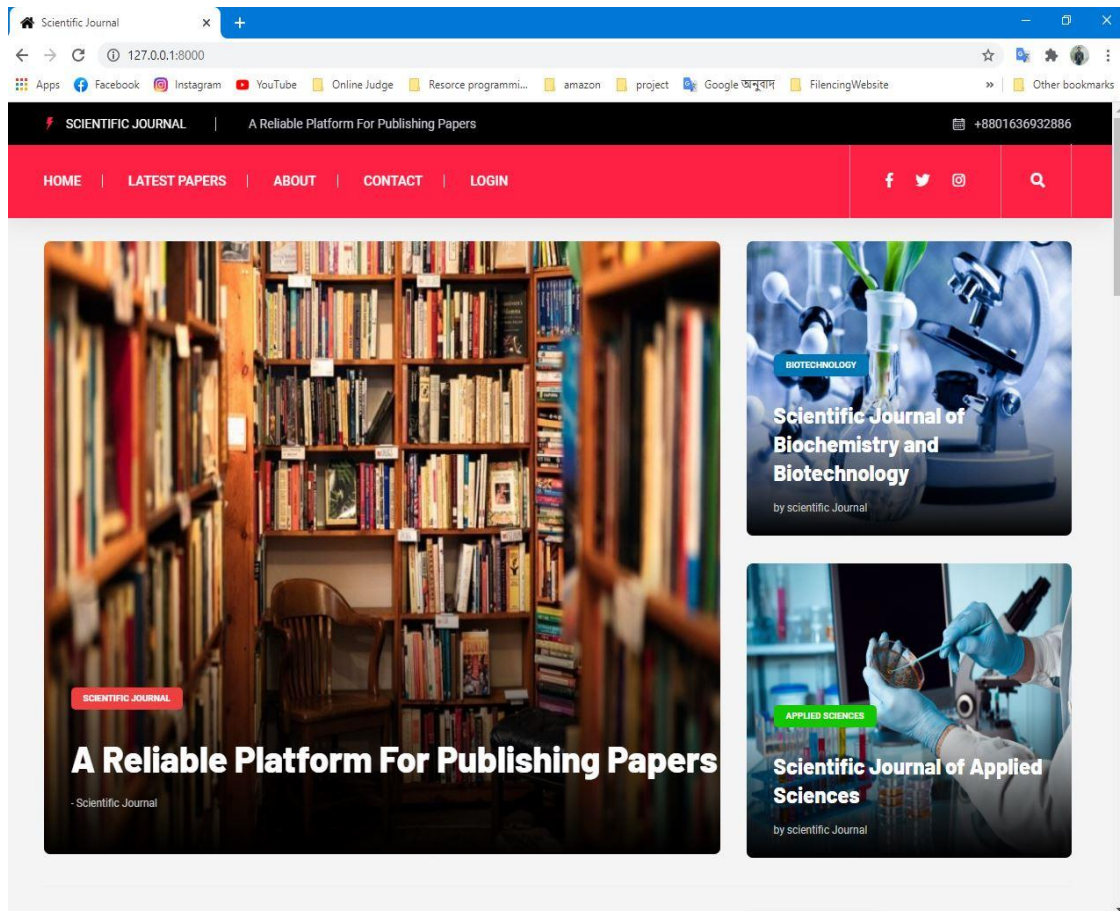


Fig2.1: Home Page

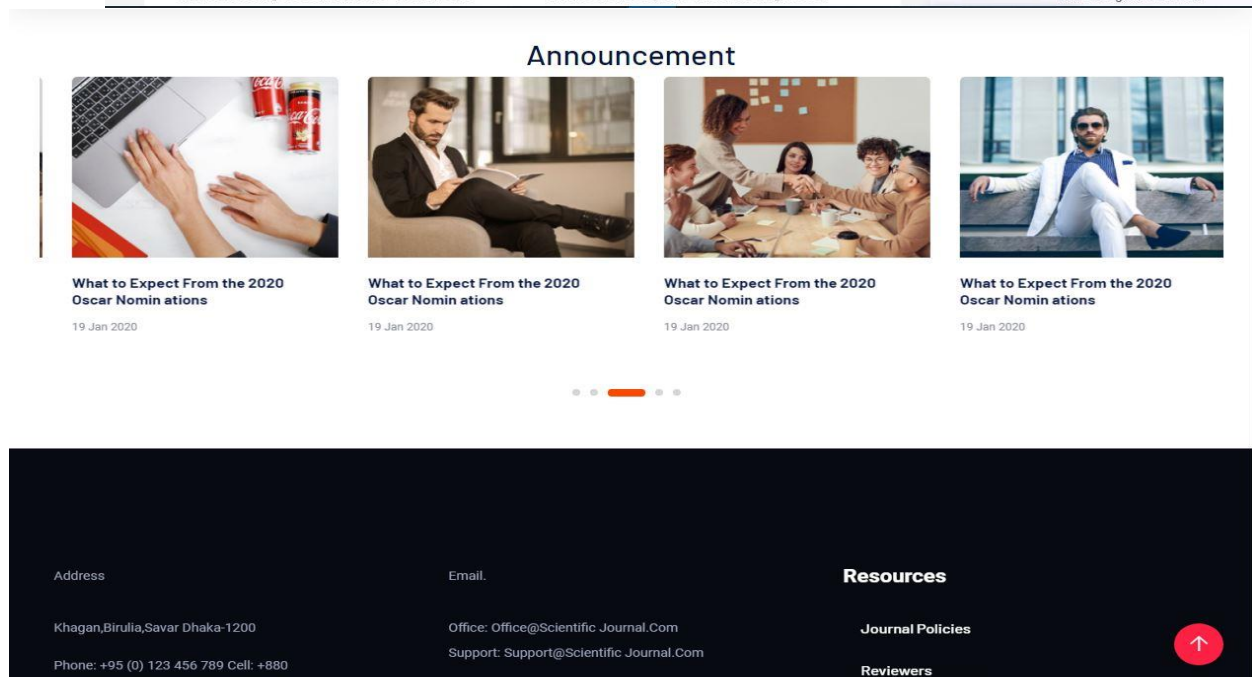
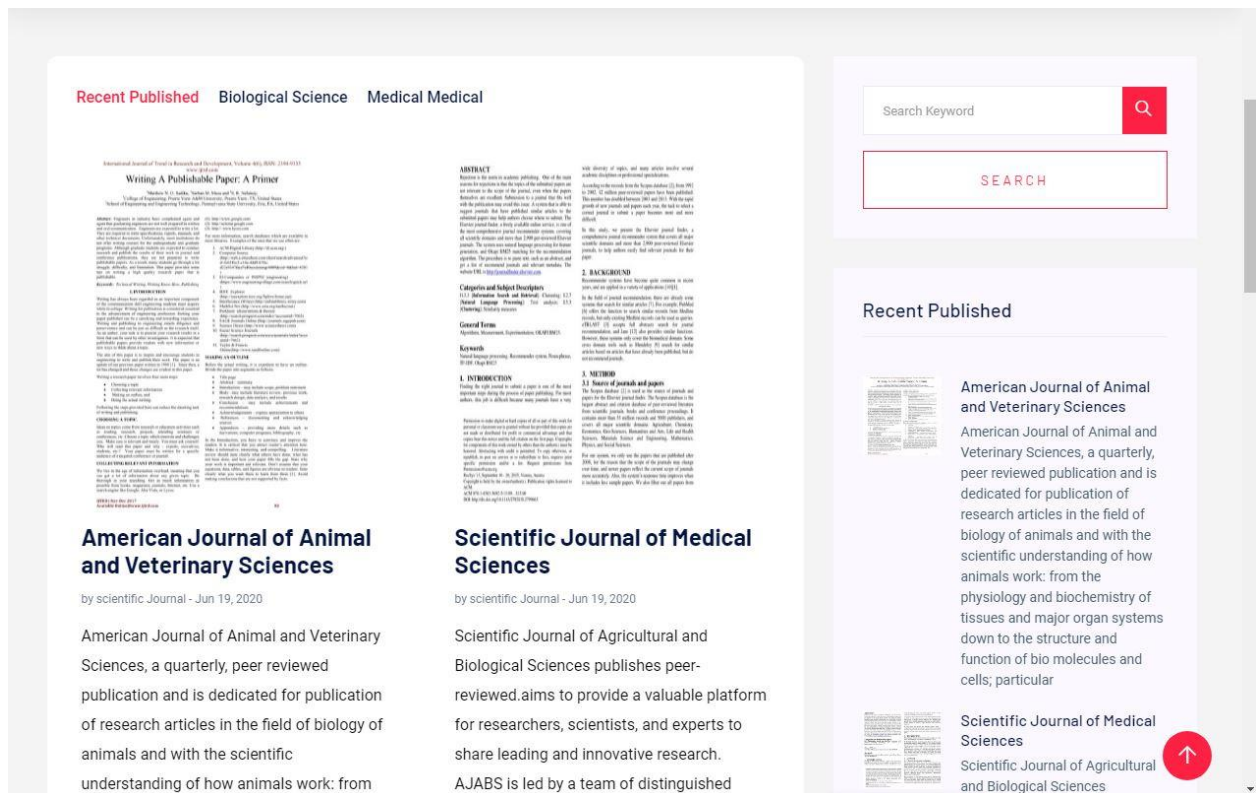


Fig2.2: Home Page

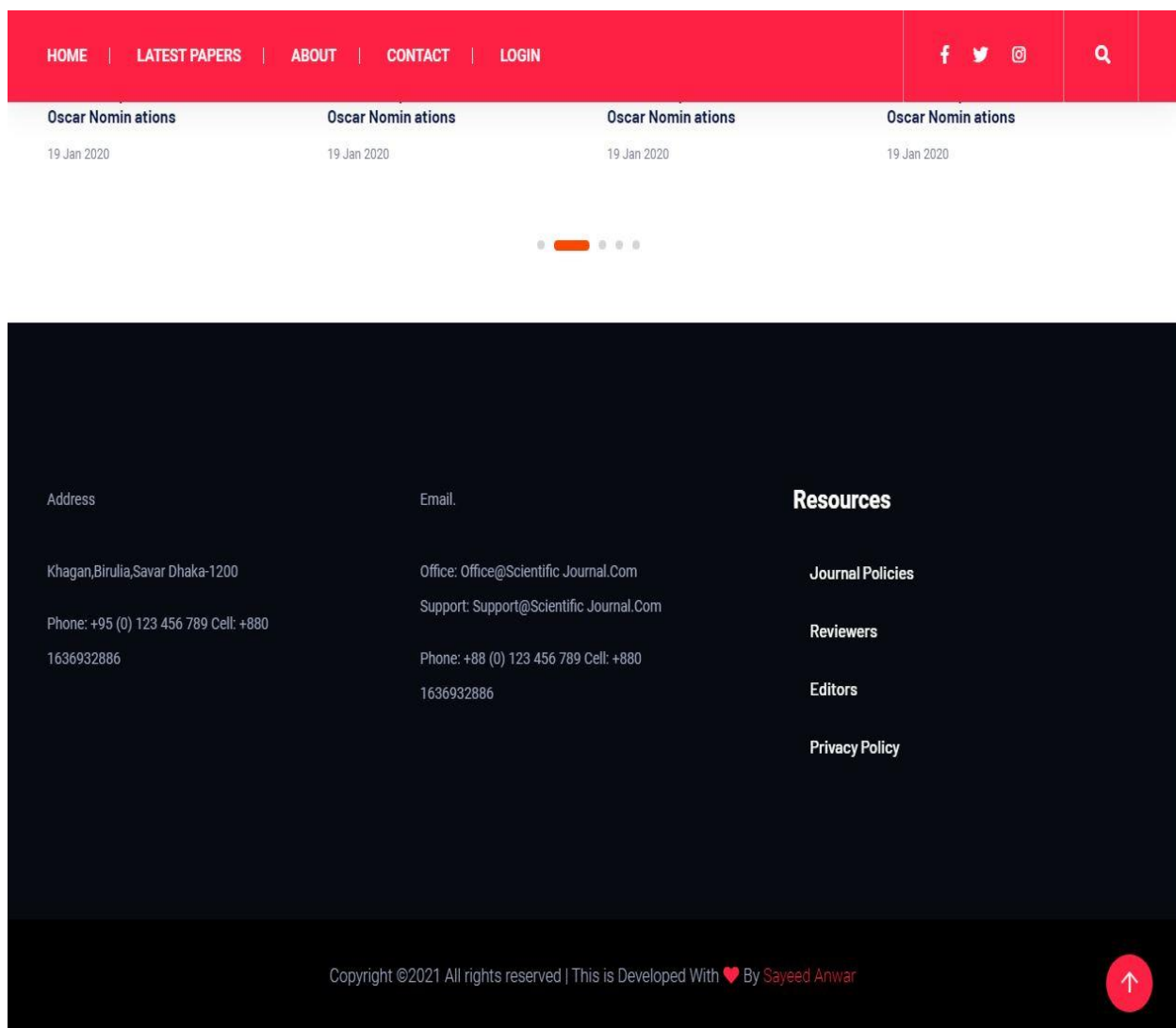


Fig2.3: Home Page

About Page

The page will be displayed to the user when anyone want to want to know about us.

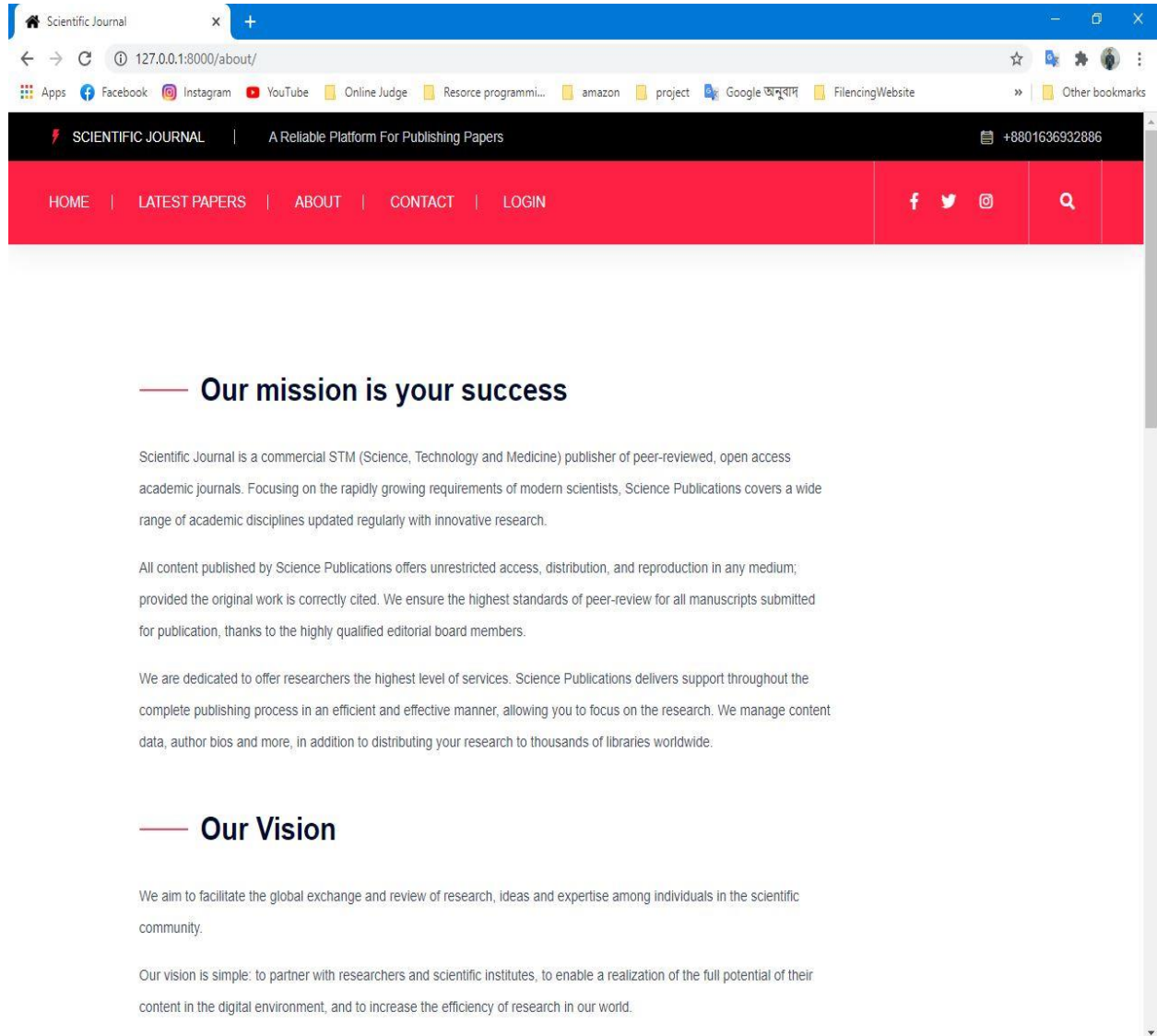


Fig3.1: about us Page

— OUR REVIEWER

Team Mambbers



Md Safaet Hossain

Department Head Department Of
Computer Science And Engineer city



Nuruzzaman Faruque

Lecturer Department Of Computer
Science And Engineer city University



Md. Rakib Uddin

Co-Ordinator and Lecturer Department
Of Computer Science And Engineer city



Fig 3.2: about us Page

Contact Page

The page will be displayed to the user when anyone want to Contact with us.

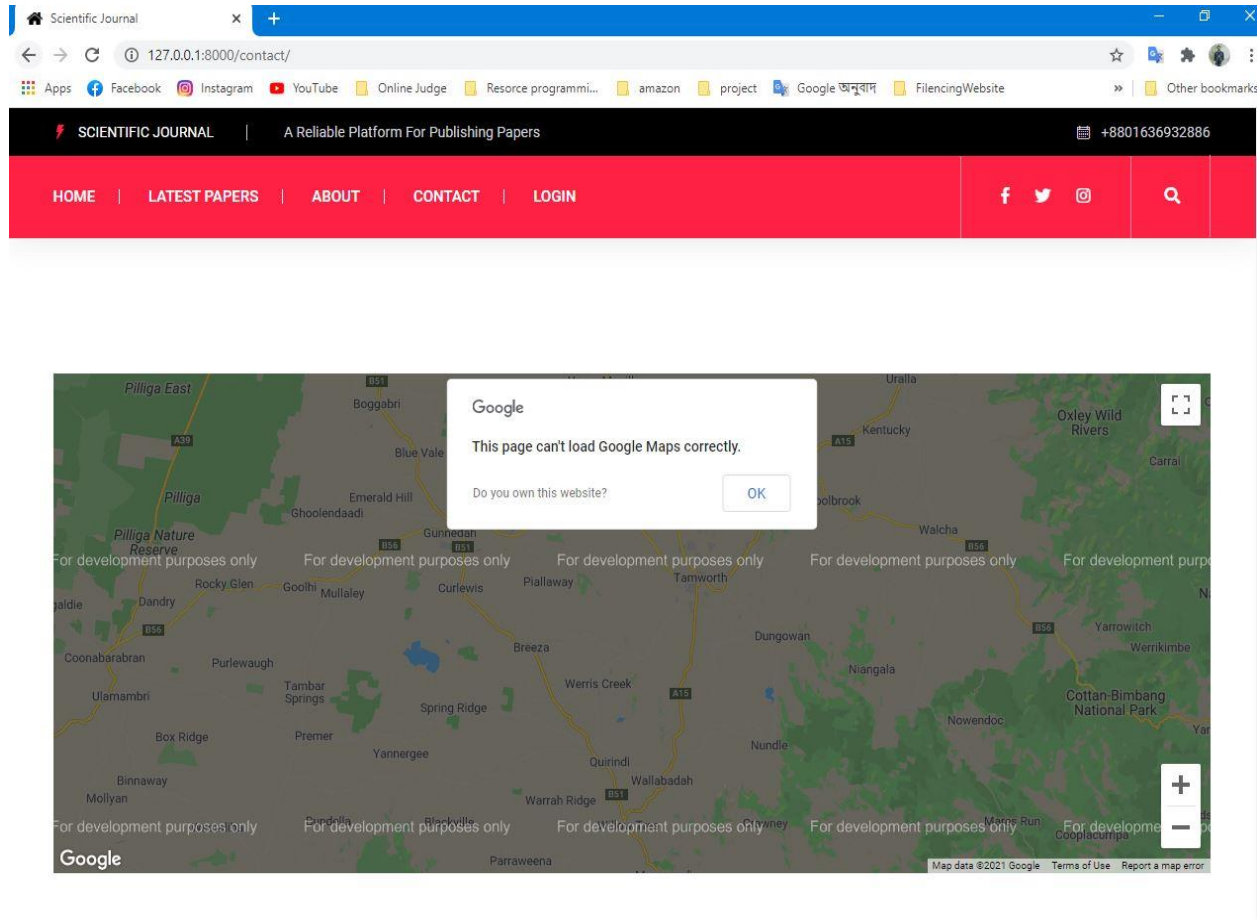


Fig4.1: Contact us page

Get in Touch

Enter Message

Enter your name

Email

Enter Subject

SEND



Dhaka Bangladesh.
Khagan,Birulia,Savar Dhaka-
1200



+880 1636932886
Mon to Fri 9am to 6pm



Support@ScientificJournal.Com
Send us your query anytime!

Fig 4.2: Contact us page

Registration and Login Page

This page enables interested contributors to create account for them to have access for the submission of articles to the Journal.

The screenshot shows a web browser window with the URL `127.0.0.1:8000/registration`. The page features a black header with the text "SCIENTIFIC JOURNAL" and "A Reliable Platform For Publishing Papers", along with a phone number "+8801636932886". Below the header is a red navigation bar with links: "HOME", "LATEST PAPERS", "ABOUT", "CONTACT", and "LOGIN". On the right side of the navigation bar are social media icons for Facebook, Twitter, and Instagram, and a search icon. The main content area has a purple gradient background. In the center, there is a white box containing a "Create Account" form. To the left of the form is a graphic of a laptop with a person icon on the screen, surrounded by colorful geometric shapes. The form includes input fields for "First name", "Last Name", "User Name", "Email", "Password", and "Confirm Password", each with a corresponding icon. At the bottom of the form is a green "SIGN UP" button.

Fig 5.1: Contact us page

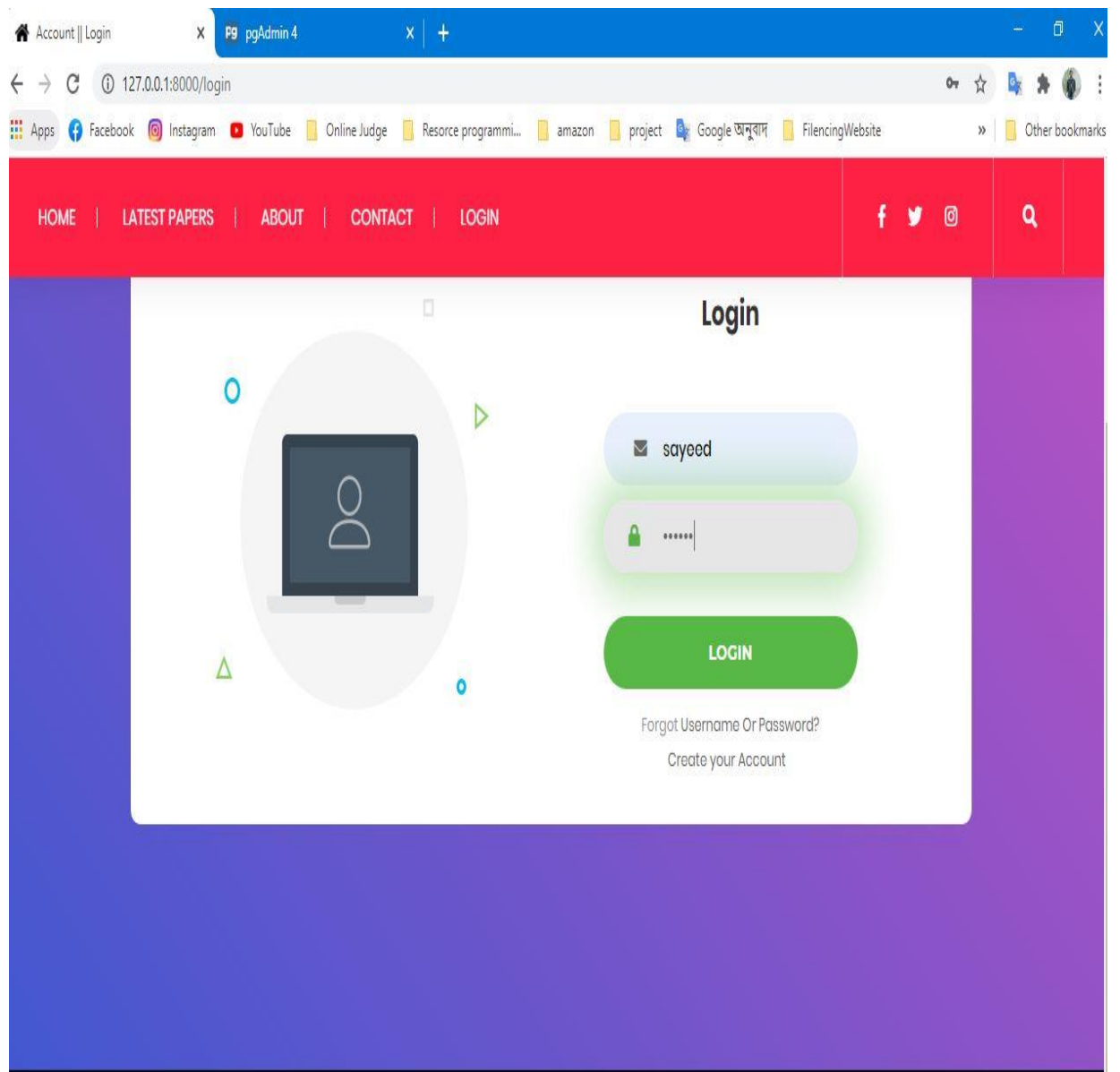
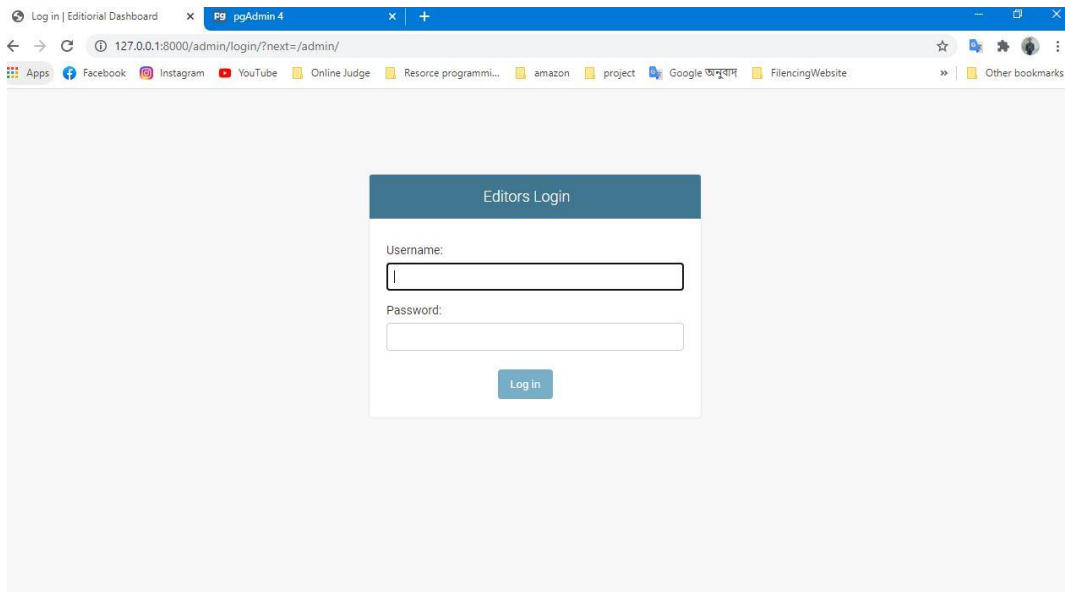


Fig 5.2: Contact us page

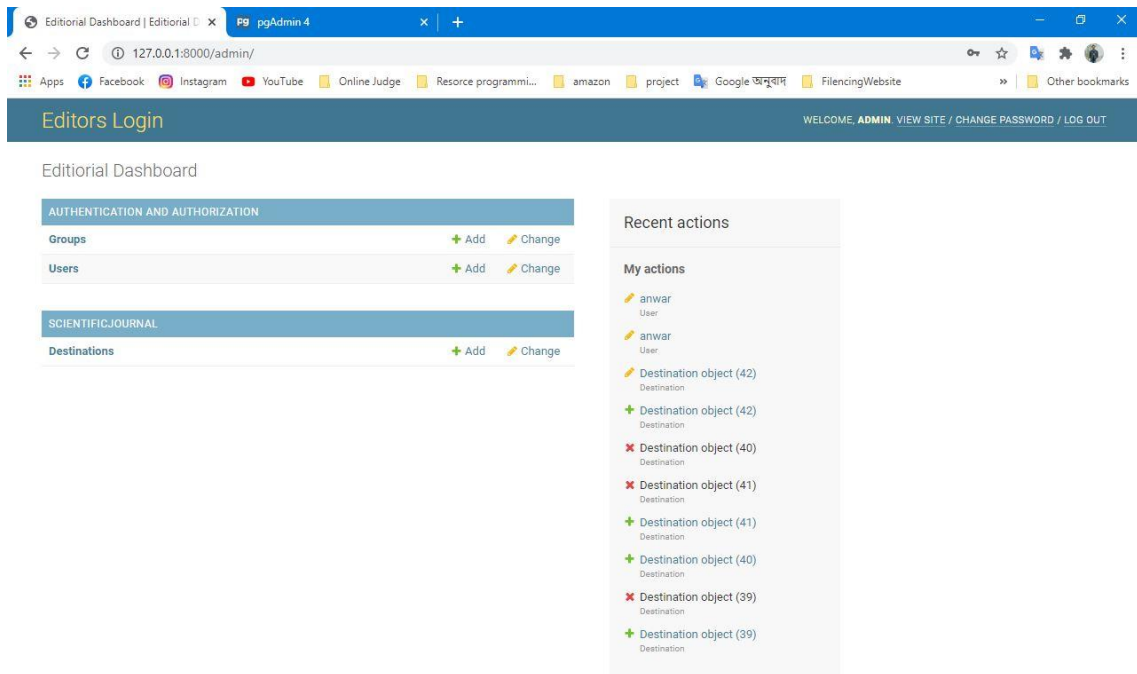
Administration Page

The page will be displayed to the page when an Administration want to login



The screenshot shows a web browser window with the address bar displaying "127.0.0.1:8000/admin/login/?next=/admin/". The page title is "Log in | Editorial Dashboard". The main content area features a login form titled "Editors Login". The form has two input fields: "Username:" and "Password:". Below the password field is a blue "Login" button. The browser's bookmark bar shows various links including Facebook, Instagram, YouTube, Online Judge, Resource programmi..., amazon, project, Google অন্বেষণ, and FilencingWebsite.

Fig 5.3: Editor Login page



The screenshot shows the "Editors Login" page after a successful login. The page title is "Editorial Dashboard | Editorial". The address bar displays "127.0.0.1:8000/admin/". The page has a dark blue header with the text "Editors Login" and a welcome message: "WELCOME, ADMIN VIEW SITE / CHANGE PASSWORD / LOG OUT". The main content area is divided into two columns. The left column contains two sections: "AUTHENTICATION AND AUTHORIZATION" with sub-sections "Groups" and "Users", each with "+ Add" and "Change" links; and "SCIENTIFIC JOURNAL" with a "Destinations" sub-section, also with "+ Add" and "Change" links. The right column contains a "Recent actions" section with a list of actions under the heading "My actions". The actions include "anwar User" (twice), "Destination object (42) Destination" (twice), "Destination object (40) Destination" (twice), "Destination object (41) Destination" (twice), "Destination object (41) Destination" (twice), "Destination object (40) Destination" (twice), "Destination object (39) Destination" (twice), and "Destination object (39) Destination" (twice).

Fig 5.4: Editor Dashboard

Publishing Papers

After Editor Login Editors can perform different task live add reviewer, manage papers.

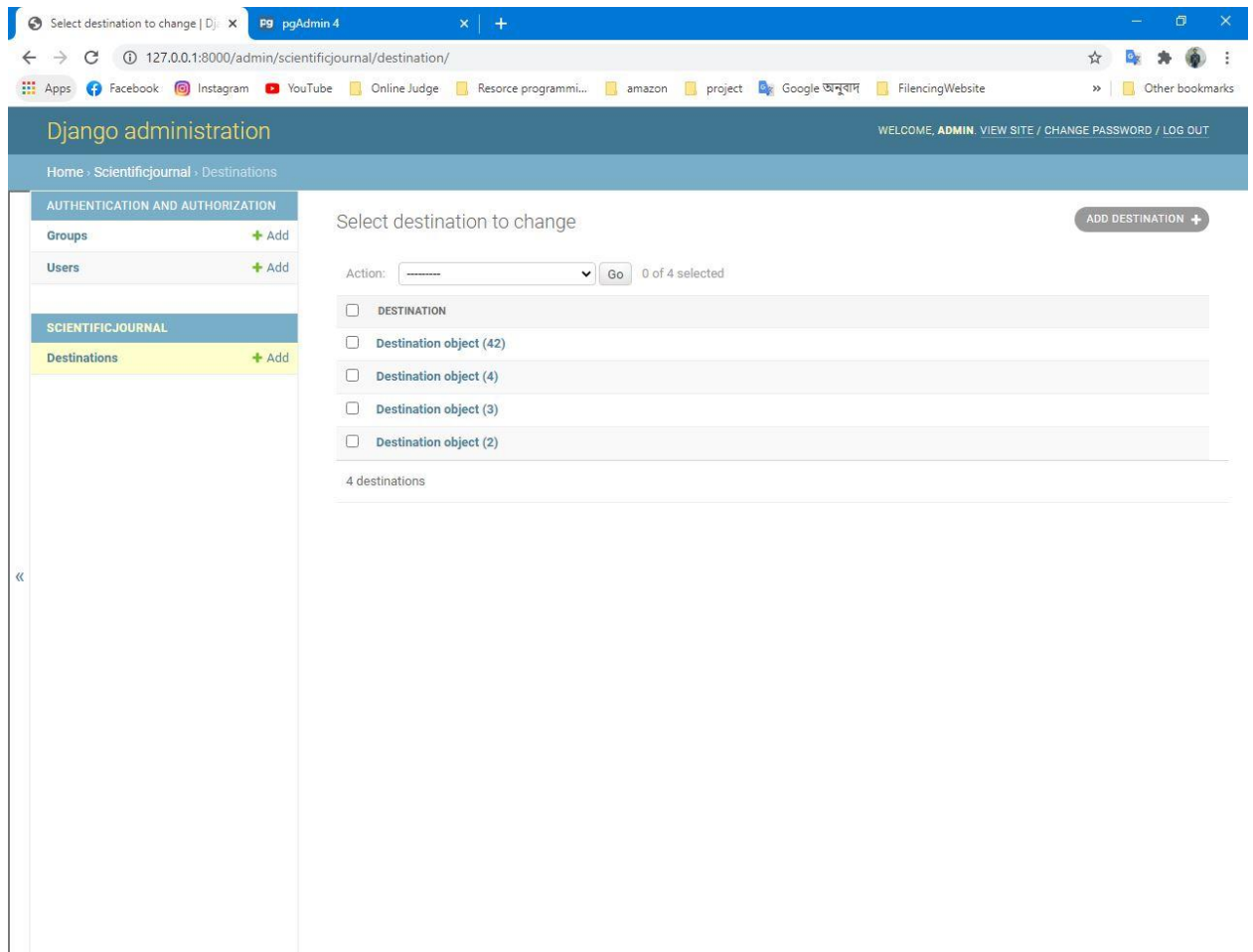


Fig 6.1: Editor's operation

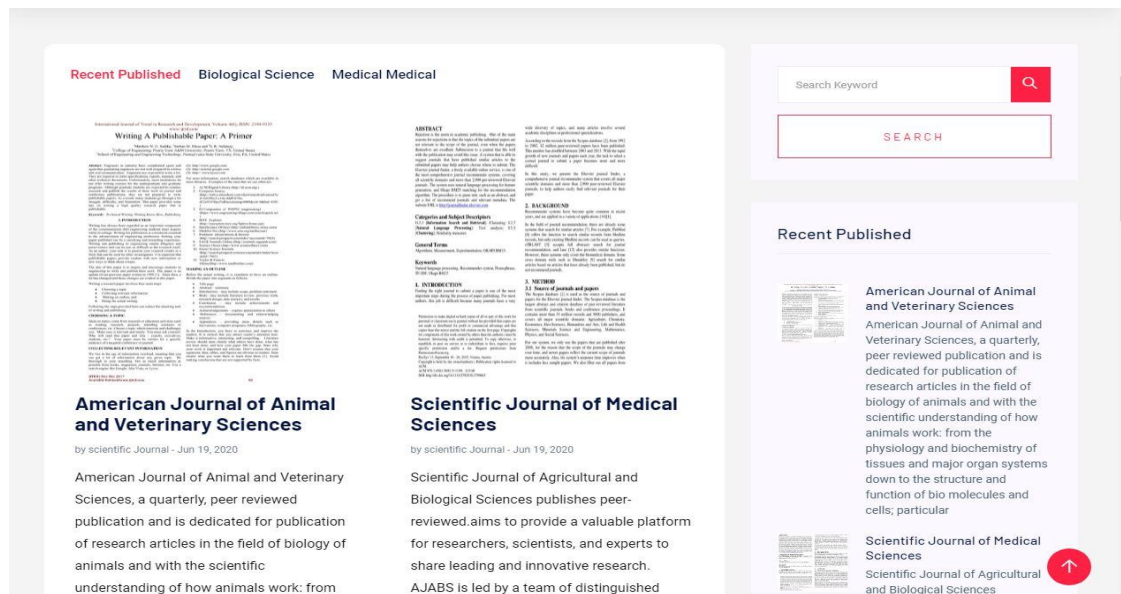


Fig 6.2: Editor's operation

ADVANTAGES OF ONLINE JOURNALS

Some of the advantages of online journals according to Scales are:

1. Some documents are more useful in electronic form due to enhanced search ability, e.g. in allowing statistical calculations to be affected
2. Electronic format is sometimes the only alternative so it represents a net increase in the information base
3. Economy of storage: the increase in cost for keeping printed material makes electronic forms more attractive from an economic viewpoint.
4. Availability for readers and researcher to access the journal anywhere in the world.

CONCLUSION

The effort being putten together for this project research have finally yielded a positive result. The Online Journal Management System will now have a positive impact on the current manual system being used by the Journal Administrators. This lead to the conclusion of saying that the aim of the project has successfully been achieved. Proper and well usage of the developed system will facilitate and ease almost all the processes involved from the stage of article submission up to the stage of article publication. The developed system also need to be hosted onto the World Wide Web (www) so as to be accessed and used by other researchers and users around the world.

Reference

1. https://www.researchgate.net/publication/272534481_Electronic_scientific_journal-management_systems.
2. <http://www.ijstr.org/final-print/aug2015/Design-And-Implementation-Of-Online-Submission-And-Peer-Review-System-A-Case-Study-Of-E-journal-Of-University-Of-Zakho.pdf>
3. <http://oer.udusok.edu.ng:8080/xmlui/bitstream/handle/123456789/827/Online%20Journal%20Management%20System.pdf?sequence=1&isAllowed=y>