Design Development of Prototype for Institute Journals

A Project funded by the AIISH Research fund

Project Report

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Introduction

Scholarship is about the generation and sharing of knowledge and one of the most important means of scholarly communication is the academic journal. The World Wide Web has been providing the publishers with alternative publishing models with useful new features and facilities that are not available with the print publications (Clarke, 2010).¹ Corresponding to these developments, more and more academic journals are being produced in electronic format. Also, many reputed journals traditionally published in print format are migrating to electronic platforms. Studies have reported (Atkins& Wright 2003; Bergstrom 2001; Björk & Lauri 2009)²⁻⁴that the publication costs of e-journals are much less that of print journals. The emergence of free and open source software have further reduced the cost of electronic publishing. The benefits of electronic publishing using open source software are significant, including superior knowledge dissemination and the ability to reach a far wider audience (Willinsky, 2007)⁵.

Background

The All India Institute of Speech and Hearing, Mysore, the premier institute in the country pertaining to communication disorders that offers academic programmes, conducts research, provides clinical care and carries out public education pertaining to communication disorders. The institute is also actively involved in the communication of scientific knowledge pertaining to the communication disorders and has been publishing two scholarly publications, namely, the Journal of All India Institute of Speech and Hearing (JAIISH), a peer reviewed national journal on communication disorders published yearly since 1970and the Student Research at AIISH, an annual publication started in the year 2008 based on the postgraduate research carried out at the Institute. Even though electronic dissemination of scientific findings and knowledge is particularly important in highly specialized fields like speech and hearing, both the journals are being published only in print format.

Statement of the Problem

Development of Prototypes for Electronic Publishing of Institute Journals

Definition of the terms

Prototypes: A prototype is a primary operational model of a product usually made for demonstration or as part of the improvement mechanism.

Electronic Publishing: Publication in computer readable format

Institute Journals: Periodical research publications by the All India Institute of Speech and Hearing, Mysore, namely, the Journal of All India Institute of Speech and Hearing and the Student Research at AIISH.

Aim and Objectives

The aim of the project is to facilitate setting up of a cost-effective, self-sustainable and state of the art journal publishing system for the institute. The specific objectives are:

- 1. To investigate the existing Institute journal publication system
- 2. To evaluate the available open source e-publishing software packages and select a suitable one.
- 3. To design and develop web based platform for the journals.
- 4. To facilitate entire process of the journal publications online
- 5. To build up a searchable online archive of back volumes of the journals
- 6. To offer suggestions for improving the quality of the journals and their up gradation

Project Need and Justification

- 1. The JAIISH being a peer-reviewed journal discussing various aspects of communication disorders, must reach all the professionals who are involved in the management of the disorders in the country and abroad thereby facilitating wider application of research findings reported in the journal.
- 2. In the present scenario of e-publishing, the researchers and practitioners expect all the scientific and research information online and a journal that cannot be traced on the web is ultimately 'invisible' to the researchers. Though the articles published in the JAIISH are subsequently made available on the institute website in PDF, it cannot be

considered as an electronic counterpart of the print journal. By making it electronic, the JAIISH will get enhanced visibility at national and international level.

- 3. Meaningful and qualitative research works are being carried out at the postgraduate level at the institute and the full-text of the research reports are being uploaded to the library web portal to enable global access. However, making available the Student Research at AIISH as an online journal will enable more visibility and its acceptance will be more among the intended audience as it will facilitate easy reference and downloading. Moreover, the postgraduate students at the Institute will get acquainted with the online scientific publication procedures and practices.
- 4. A lot of time, effort and money are required for the publication of the journals in print format which can be saved by converting them into electronic format.

Scope of the Project

The study is limited to the design and development of web based platforms for the two journal publications namely, the Journal of All India Institute of Speech and Hearing (JAIISH) and the Student Research at AIISH.

Methodology

- The existing procedures and practices in the publication and distribution of the journals were analyzed by conducting informal interview with the present and past Journal Coordinators/ Assistant Editors /Compilers and by examining the published issues of the journals.
- 2. A set of new procedures and practices including workflow were formulated for both the journals
- A literature review and a deeper scan of the web were performed and shortlisted the electronic publishing software that are: (i) open source and freely available and (ii) appropriate for academic journal publishing.
- 4. The benefits and potential limitations of each of the shortlisted open source software were evaluated further based on a list of criteria and the most suitable one was selected for the development of web-based platform for the institute journals.

- 5. The selected software was installed and necessary customizations were made to adapt to the newly formulated procedures and practices.
- 6. All the archival issues of both the journals were digitized and uploaded to the databases designed.
- 7. Web based platforms were developed for the journals by incorporating various functionalities and usability test was conducted.

Project Outcome

The main outcome of the project is the design and development of electronic formats for the Institute journals with advanced features and functionalities. The associated outcomes include:

- i. Scholarly recognition of the Institute at the international level
- ii. Considerable reduction in the time, effort and cost involved in the publication of the journals
- iii. Considerable reduction in the delay of publication
- iv. Global visibility and greater access to the journal articles
- v. Increase in the citation of the journal articles
- vi. Wider reach of Indian research on communication disorders

Analysis of the Existing System

An analysis of the existing Institute journal publication system was performed to document the publication procedures and practices, identify the lacunae and define the new requirements. The analysis was carried out based on the information gathered using informal interviews with the key personnel involved in the publication of both the journals and by inspecting the previous journal issues.

Journal of All India Institute of Speech and Hearing

The Journal of All India Institute of Speech and Hearing (JAIISH) is a reputed peerreviewed national journal which covers original and review articles on assessment, diagnosis, and management of speech, language and hearing disorders. It started publishing in the year 1970, stopped in 1994 and resumed publication in 2007. Totally, 32 volumes of the journal have been published till 2014.

Frequency of Publication: Except the V.29, 2010 published in two issues, all other journal volumes were published in single issues, annually. Some of the volumes of two successive years were combined and published. Also, many of the issues were published much later than the scheduled year of publication. Postgraduate dissertations were the major contents of eight volumes, published before the discontinuation of the journal in the year 1994. The details of the frequency of the journal publication since its inception are given in table 1.

Volume No.&	Actual Year of	J	Remarks		
Year	publication	Research Articles	Dissertation Abstracts	Case Reports	
V.1, 1970	1970	17	-	8	
V.2, 1971	1971	20	-	2	
V.3, 1972	1972	17	-	3	
V.4, 1973	1973	22	-	1	
V.5, 1974 V.6, 1975	1975	15	-	-	V.5 & V. 6 published as combined volume
V.7, 1976	1976	20	-	-	
V.8, 1977	1977	17	-	1	

Table 1: Publication Frequency of JAIISH

V.9, 1978	1988	-	34	-	
V.10, 1979	1984	-	25	-	
V.11, 1980	1988	-	41	-	
V.12, 1981	1981	19	-	-	
V.13, 1982	1982	14	13	-	
V.14, 1983	1983	6	11	-	
V.15, 1984	1984	16	-	1	
V.16, 1985 V.17, 1986	1986	8	4	-	V.16 & V.17 published as combined volume
V.18, 1987	1987	-	35	-	
V.19, 1988	1988	9	2	-	
V.20, 1989	1990?	11	6		
V.21, 1990	1991?	7	1	-	
V.22, 1991 V.23, 1992	1992?	6	46	-	
V.24, 1993 V.25, 1994	1994	8	66	-	V.24 & V.25 published as combined volume
The jour:	nal discontinued	in the year 19	95 and resun	ned publicatio	on in 2007
V.26, 2007	2007	17	-	-	
V.27, 2008	2008	19	-	1	
V.28, 2009	2009	25	-	1	
V.29, 2010	2010	14		1	Published in
		19		-	two issues
	2011				
V.30, 2011	2012	28	-	-	
V.31, 2012	2013	28	-	-	
V.32, 2013	2014	30	-	-	

Journal Sections: The content organization in different volumes of the journal since its inception was examined and the details are given in table2. The Editorial Section was included in V.1 to 17, V.19 to 21, V. 26 to 29 and V. 31 to 32. Except V.9 to 11 and V. 18, all the issues were published with research articles. Masters Dissertation Abstract Section was started with V.9 of the journal and it was continued in V. 10 to 11, V. 13 to V.14 and

V.16 to V.25. Case Reports were included in V. 1 to V.4, V.8, V.15 and V.27 to V.29. In V.28, a Book Review Section was incorporated but it was discontinued in later volumes.

S.No.	Section Name	Volume Nos.	Remarks
1	Editorial	V.1 to 17; 19-21; 26- 29; 31-32	
2	Research Articles	V.1 to V.8; 12-17;19- 32	From V.26 the research article section has been divided into Speech, Language & Hearing Sections
3	Case Reports	V.1 to 4;8;15;21;27;29-32	
4	Book Reviews	V.28	
5	Dissertation Abstracts	V.9-14;16-20;22-25	

Table 2	: Journal	Sections
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Authorship Pattern of the Research Articles Published: Totally 412 articles were published in the journal from V.1 to V.32. These include 148 single authored, 127 two-authored, 95 three-authored and 42 multi-authored articles. Totally 844 authors contributed to the journal and 532 of them were from AIISH, 261 from other Indian organizations and 51 from foreign organizations. The details of the authorship pattern are given in table 3.

Volume & Year of Publication	Total Research Articles	Number of authors			Author affiliation			
Tublication	AT there's	1	2	3	3<	AIISH	Other Indian	Foreign
V.1, 1970	17	14	3	-	-	17	2	1
V.2, 1971	20	18	2	-	-	18	1	3
V.3, 1972	17	11	5	1	-	12	10	-
V.4, 1973	22	14	5	1	2	20	12	5
V.5, 1974								
V.6, 1975	15	10	4	1	-	10	2	9
V.7, 1976	20	8	4	6	2	10	30	1
V.8, 1977	17	9	4	3	1	10	16	4

Table 3: Authorship pattern of JAIISH

V.9, 1978	-							
V.10, 1979	-							
V.11, 1980	-	14	2	2		10	7	1
V.12, 1981	19	14	2	3	-	19	7	1
V.13, 1982	14	6	4	4	-	21	3	2
V.14, 1983	6	2	3	1	-	3	3	3
V.15, 1984	16	8	4	4		27	-	1
V.16, 1985								
V.17, 1986	8	4	3	1	-	7	2	2
V.18, 1987	-							
V.19, 1988	9	6	2	1	-	7	2	2
V.20, 1989	11	7	2	2	-	13	2	2
V.21, 1990	7	2	4	1	-	5	4	2
V.22, 1991								
V.23, 1992	6	1	4	1	-	6	4	2
V.24, 1993								
V.25, 1986	8	4	3	1	-	5	4	2
V.26, 2007	17	4	7	6	1	23	10	1
V.27, 2008	19	-	13	5	1	29	16	2
V.28, 2009	25	2	7	13	3	31	34	1
V.29, 2010	33	-	10	11	12	68	38	1
V.30, 2011	28	1	7	9	11	54	23	3
V.31, 2012	28	2	10	11	5	62	10	1
V.32, 2013	30	-	16	9	5	55	26	-
Total	412	148	127	95	42	532	261	51

Work Flow: The various steps involved in the publication process of the journal at present are the following.

- 1. Inviting of papers to the journal by sending letters to the organizations pertaining to the field (Journal Coordinator/ Editor in Chief)
- 2. Receiving of the manuscripts and initial reviewing for the subject content (Journal Coordinator)
- 3. Rejecting of the paper and informing the author in case the manuscript content does not suit with the journal. (Journal Coordinator/ Editor in Chief)

- 4. Plagiarism checking of the paper in case the manuscript content is acceptable for the journal (Journal Coordinator/ Editor in Chief/)
- Requesting the author(s) to revise the manuscript in case the matching contents are more/ Reject the paper (Journal Coordinator/ Editor in Chief) and informing the author
- 6. Sending the paper for peer reviewing(Journal Coordinator/ Editor in Chief)
- 7. Peer reviewing (Editorial Board Members)
- Accepting of the paper with/without revision as per the recommendation of the reviewer(Journal Coordinator/ Editor in Chief)/ Rejection of the paper (Journal Coordinator/ Editor in Chief)
- 9. Copyediting, layout editing and proof reading of the paper accepted (Journal Coordinator)
- 10. Proof reading and finalization of the papers (Editor in Chief)
- 11. Compilation of all the papers (Journal Coordinator)
- 12. Printing (Editor in Chief / Journal Coordinator/ Purchase section/)

Student Research at AIISH

The Student Research at AIISH, the annual serial publication based on the postgraduate research of the institute was started publishing in the year 2005-06 by publishing the abstracts of 467 PG dissertations carried out during the years 1972-2002. It was published in 4 volumes under the title Research at AIISH: Dissertation Abstracts. From the year 2008,the journal has been publishing full-text articles based on postgraduate dissertations under the title the Student Research at AIISH. The first five volumes of the Student Research at AIISH with full-text articles based on the dissertations carried out in 2002-2007 period were published in the year 2008. Since then the Student Research at AIISH has been publishing regularly every year with articles based on PG dissertations carried out in the previous academic year.

Publication Frequency and Subject Coverage: The Student Research at AIISH was started publishing in the year 2008 containing the full-text articles based on the PG research carried out during the period 2002-03. From volume 6, the journal has been publishing in three parts:

Part A Audiology, Part B Speech Language pathology and Part C Special Education. The publication frequency and the subject coverage of the articles published in the Student Research at AIISH are given table 4.

S.	Vol. & Year	Actual Pub. Year						
N.			Part A : Audiology	Part B: Speech Pathology	Part C: Special Education			
1	V.1, 2002-03	2008	10	13	-			
2	V.2, 2003-04	2008	9	15	-			
3	V.3, 2004-05	2008	15	13	-			
4	V.4, 2005-06	2008	15	12	-			
5	V.5, 2006-07	2010	18	19	-			
6	V.6, 2007-08	2010	19	20	6	Part C initiated		
7	V.7, 2008-09	2010	20	20	4			
8	V.8, 2009-10	2011	32	35	4			
9	V.9, 2010-11	2011 (Part-C) 2012(Part-A &B)	36	32	3			
10	V.10, 2011-12	2014 (Part-A)	36	-	-			

Table 4: Student Research at AIISH: Publication Frequency and Subject Coverage

Journal Workflow: The workflow of the Student Research at AIISH are given below.

- 1. Submission of the manuscripts prepared out of the PG dissertations (Students Author)
- 2. Plagiarism checking (Compiler)
- 3. Requesting the authors to revise the paper, if required (Compiler / Chief Editor)
- 4. Revising of the paper (Students Author)
- 5. Compilation and formatting of the revised paper (Compiler / Chief Editor)
- 6. Editing and Proof reading (Chief Editor)
- 7. Printing

Journal Readership: The informal interview with the journal coordinator and the compilers of Student Research at AIISH revealed the following with respect to the readership.

- 1. The major subscribers of the journal are the students of the Institute from whom the subscription amount are being collected at the time of admission.
- 2. The institutional as well as individual subscribers to the journals are remarkably less.

Inferences

- 1. Majority of the journal issues both that of JAIISH and Student Research at AIISH were published behind the schedule.
- 2. The major share of the research articles in JAIISH was contributed by the staff of AIISH, the publishing organization of the journal, followed by those who were working in other educational organizations, hospitals and clinics across the country.
- 3. Contribution to the journal from the scientists working abroad is very less.
- 4. There was no consistency with respect to the JAIISH contents. Many issues were lacking even research articles. Though a Book Review Section was initiated in V.28 of the journal, the later issues were missing the section.
- 5. No comprehensive journal policy has been outlined for the JAIISH
- 6. All the major works related to the publication of JAIISH including the clerical works are being carried out by the Journal Coordinator, later designated as Assistant Editor, under the supervision of the Chief Editor. Other editorial board members are assigned with only the peer reviewing of the manuscripts.
- Similarly, all the major works related to the publication of the Student Research at AIISH including the clerical works are being carried out by the compiler under the supervision of the Director.
- 8. The editorial board of the JAIISH is constituted of the subject experts in the publishing organization and those working in similar organizations across the country.
- 9. No editorial board has been constituted for the Student Research at AIISH.
- 10. No publication schedule has been outlined for both the journals and the publication processes are stretching throughout the year
- 11. Though it is a national journal, manuscripts are being accepted only during a limited period of time in a year for JAIISH.

- 12. Each volume of JAIISH after resuming publication in 2007, published 25 articles on an average.
- 13. No publicity has been done for the journal other than inviting papers from authors of sister institutions in the country once in a year.
- 14. No comprehensive journal policy has been outlined
- 15. No consistency is observed with respect to frequency of publication and timeliness in both the journals.
- 16. The major subscribers of the JAIISH are the students of the Institute from whom the subscription amount are being collected at the time of admission. The institutional as well as individual subscribers to the journals are remarkably less.

Proposed System

In this chapter, a modified publication system based on a web based platform has been proposed for the Journal of All India Institute of Speech and Hearing (JAIISH) and the Student Research at AIISH in view of the observations made on the existing journal publication system and procedures in chapter 4.

A. System Proposed for JAIISH

1. Journal Title

The existing journal title may be changed by a concise one, but at the same time, reflecting the subject coverage of the journal. Very long titles are inconvenient for all stake holders of a journal including the authors, readers and database vendors. Moreover, modern scientific journal titles very rarely carry publisher's name, especially when they are being published by individual educational/research institutions. The society publications are exceptional. Also, name of the institution with the title will create an impression of an in-house publication among the indented audience. The proposed title is:

Briefing in Communication Disorders with an acronym BiCoD.

2. Journal Sections

The following sections are proposed for the journal which may be consistently followed for all the issues.

a. Editorial Section

The Editorials may be written for every issue by the Chief Editor or the Managing Editor. In the first issue of the electronic format, a detailed account on the new format of the journal publication may be given. The Editorials of the subsequent issues may be used to keep the readers informed of the topics covered in the particular issues, journal policy changes, if any etc.

b. Research Article Section

The Research Article Section may be continued as in the previous volumes of the journal published with the following sub categories. (a).Speech, (b). Language, (c). Hearing.

c. Case Report Section

A Case Report Section for reporting the previously undocumented diagnosis and management procedures of various types of Communication Disorders may be incorporated in the journal.

d. Book Review Section

The Book Review Section initiated in V. 28 of the current journal may be revived and reputed publishers in the field of communication disorders and allied areas may be informed of sending copies of the latest books published on a regular basis for reviewing.

3. Editorial Board

The existing system of managing the journal publishing may be completely revamped by bringing the system under a newly constituted Editorial Board with the following roles and job responsibilities. Competent and dedicated faculty members and technical staff of the Institute and the experts working in other organizations of similar kind in the country and abroad may be inducted to the Editorial Board.

a. Chief Editor

The Director of the publishing institute may be taken over the charge of the Chief Editor of the journal with the following responsibilities.

- Overall management of the Journal
- Selection of suitable persons to different roles for the management of the journal
- Chair the editorial board meeting
- Approval of the journal contents
- Authority to take final decision regarding different aspects of the journal including editorial and publication processes

b. Managing Editor

A senior professor in the publishing Institute with sufficient research experience and who served/ has been serving the editorial boards of scientific journals on communication

disorders and allied areas may be assigned the role of Managing Editor with the following responsibilities.

- Officer in-charge of the Journal
- Formulation of policies and procedures of the journal with the approval of the Chief Editor.
- Supervision and coordination of the entire publishing process including manuscript acceptance, editorial process, reviewing and final publication of issues.
- Content creation and updating for the different sections of the journal
- Preparation of the editorial content with the approval of the Chief Editor
- Assigning of the manuscripts received to the respective Section Editors.
- Taking of decision regarding the acceptance/rejection of a manuscript submitted to the journal in consultation with the Chief Editor
- Creation of issues, scheduling of publication date and timely publication of the journal issues
- Making all the correspondence relating to the journal

c. Section Editors- Research Articles

Faculty members with necessary research experience in the areas of speech, language, hearing may be assigned with the role of Section Editors to deal with the three Research Article Sections of the journal. Initially those working in the publishing Institute may be assigned the job. The Research Articles Section Editors may be given the following responsibilities.

- Assisting the Managing Editor in taking decision regarding acceptance/ rejection of manuscripts pertaining to the Section.
- Plagiarism checking of the manuscripts initially accepted for publication.
- Coordinating and supervising of peer reviewing, copy editing, layout editing and proof reading activities of the manuscripts accepted for publication *strictly adhering to the time schedule*.

 Making necessary communication with the corresponding authors and the reviewers, copy editors, layout editors and proof readers involved in peer reviewing, copy editing, layout editing and proofreading activities of the manuscripts.

d. Section Editor- Case Reports

A senior staff with necessary clinical and research experience in the areas of speech and hearing may be assigned the role of Section Editor for the Case Report Section. Initially, the staff working in the publishing Institute may be considered for the post. The Case Report Section Editor may be given the following responsibilities.

- Assisting the Managing Editor in taking decision regarding acceptance/ rejection of manuscripts pertaining to the Section.
- Plagiarism checking of the manuscripts initially accepted for publication.
- Coordinating and supervising peer reviewing, copy editing, layout editing and proof reading of the Case Reports *strictly adhering to the time schedule*
- Making necessary communication with the corresponding authors, and those involved in peer reviewing, copy editing, layout editing and proofreading activities of the manuscripts.

e. Section Editor- Book Review

One faculty member with necessary research experience in the areas of speech, hearing or allied sciences may be assigned the role of Section Editor to deal with the Book Review Section of the journal. Initially, the one working in the publishing Institute may be considered for the post. The Book Review Section Editor may be given the following responsibilities.

- Coordinating and communicating with the reputed publishers in the area of communication disorders and allied sciences and make available the relevant books for reviewing to the interested book review authors.
- Evaluation and acceptance/ rejection of the review in consultation with the Managing Editor/ Chief Editor

- Coordinating and supervising the paper submission, copy editing, layout editing and proof reading activities of the manuscripts accepted for publication *strictly adhering to the time schedule*,
- Making necessary communication with the corresponding authors, and those involved in peer reviewing, copy editing, layout editing and proofreading activities of the manuscripts.

f. Associate Editors-Peer Reviewing

A minimum of twenty experienced research scientists in the field may be appointed as Associate Editors with the responsibility of peer reviewing the manuscripts for the journal. The associate editors may be drawn from the experts working in reputed organizations across the country and abroad. It is important to have associate editors from other countries in order to make the editorial board international.

g. Assistant Editors- Copy Editing

Three skilled technical staff in the area of speech and hearing may be assigned the role of Assistant Editors- Copy Editing with the following responsibilities, initially. As copy editing is one of the major activities that determines the quality of a journal it is strongly suggested hiring of an experienced scientific copyeditor, later.

- Improving the clarity and correcting the grammatical errors in the manuscripts.
- Coordinating/ working with the authors for improving various aspects of manuscripts such as grammar, clarity in writing /meaning, bibliographic formatting and technical styles.
- Checking of the reference linking and identification of dead links, if any.

h. Assistant Editors- Layout Editing

Three skilled technical staff in the area of speech and hearing may be assigned the role of Assistant Editors- Layout Editing with the following responsibilities.

• Conversion of the copy edited manuscripts received from the Copy Editor in MS Word format to HTML/PDF galley formats using suitable software.

The graphic designers working with the publishing Institute may be assigned the job of assisting the layout editors in doing the work.

i. Assistant Editors - Proof Reading

Three faculty members in the area of speech and hearing may be assigned the role of Assistant Editors- Proof Reading with the following responsibilities.

• Careful reading of the manuscript made in PDF and HTML galleys along with the author and identifying the typographic and formatting errors, if any, and informing the same to the Layout Editor.

j. Assistant Editor - Marketing

A skilled technical/administrative staff may be assigned the role of Assistant Editor-Marketing with the following responsibilities.

- Regular analysis of journal usage statistics
- Developing marketing strategies to promote the journal
- Design and development of journal flyers
- Communicating the presence of the journal among the professional community by traditional and electronic means at regular intervals
- Keeping a monthly record of marketing activities carried out and report the same to the Managing Editor

k. Journal Manager

The Library and Information Officer of the publishing organization may be assigned the role of Journal Manager with the following responsibilities.

- Overall management of the journal publishing website
- Setting up of the different functionalities for the Journal Website in consultation with the Managing Editor/ Chief Editor
- Identifying the latest e-publishing features and functionalities and incorporating them on the e-journal platform.

- Creating/ enrolling and managing various user roles on the journal website such as Managing Editor, Section Editors, Reviewers, Copy Editors, Proof Readers and Layout Editors.
- Attend to the issues with respect to the access and use of journal website by the editorial board members, authors and readers.

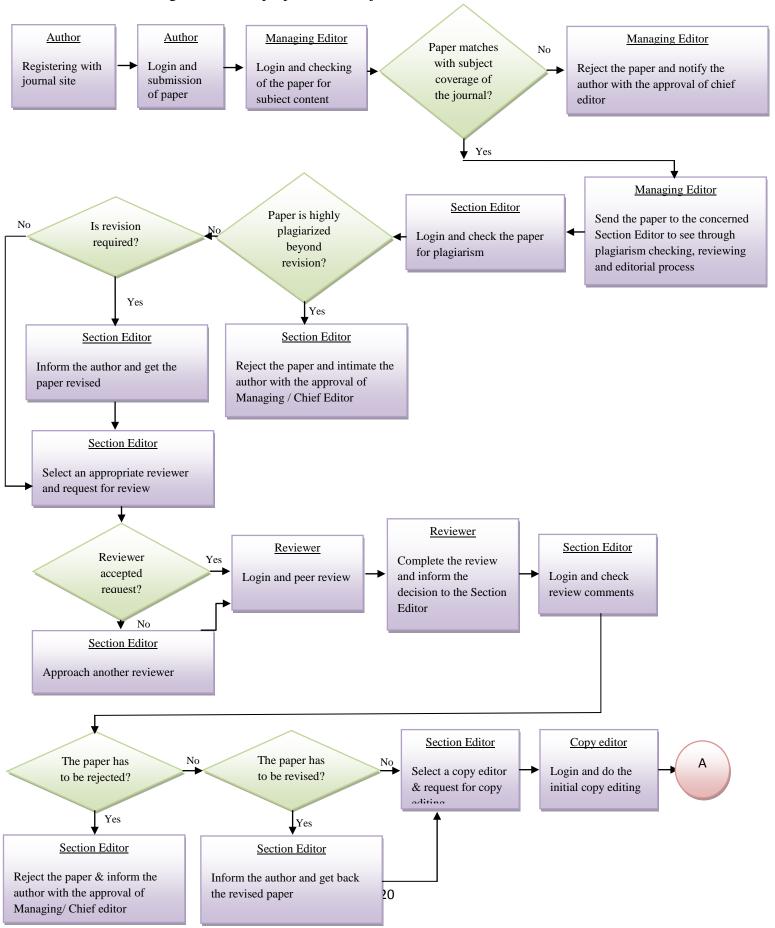
I. Site Administrator

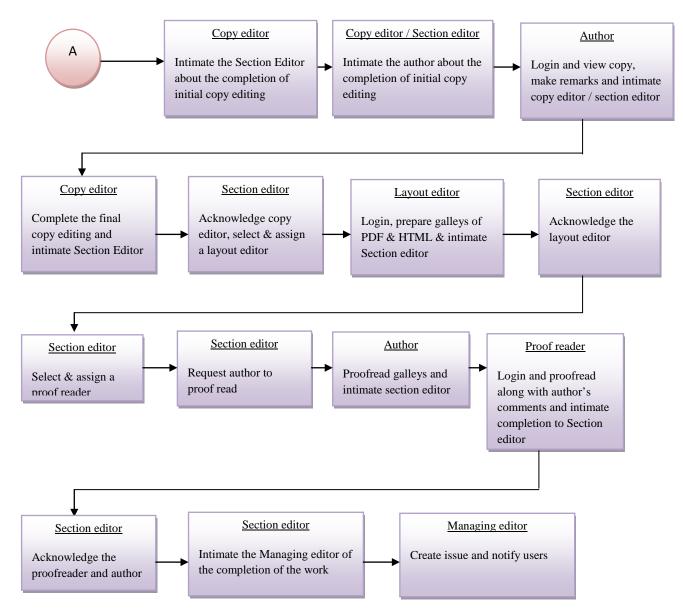
A software engineer from the Department of Electronics and a library professional of the publishing organization may be jointly assigned the role of Site Administrator with the following responsibilities.

- Maintenance and up gradation of the journal website
- Fixing of errors or issues on the website in a timely manner
- Monitoring of the system security and taking backup at regular intervals
- Monitoring the performance of hardware components and timely intimation of replacements/ up gradation of components, if any.
- Deciding the system maintenance and shut down schedule and intimation of the same to the website users well in advance.
- Closely monitoring the performance of the website especially the uploading and downloading speed.

4. Journal Workflow

The following workflow is proposed for the journal.





5. Setting up of an Editorial Office

An editorial office may be setup for coordinating various activities pertaining to the journal publications and for addressing queries regarding the journals. Also, an editorial/administrative assistant may be posted in the office.

6. Formulation of Comprehensive Journal Policy

It is imperative to have a stated policy covering all aspects of journal publishing.

7. Making Available of Article Template

An article template may be designed and made available along with the information for authors which will facilitate easy preparation of manuscript by the prospective authors conforming to the Style.

8. Implementing Peer Reviewing Form

In order to ensure objective and qualitative reviewing of the manuscripts submitted to the journal for publication a manuscript evaluation form may be designed for reviewers to make constructive comments to the authors and editors.

9. Rewarding the Journal Management Team Members

As the processes involved in the publication of the journal are time consuming and intellectual, the personnel involved in it may be rewarded by issuing an official certificate of acknowledgement duly signed by the Chief Editor upon completion of each volume of the journal.

10. Implementing Digital Object Identifier

The Digital Object Identifiers (DOI) which uniquely identify the digital objects may be procured from the CrossRef, the international agency providing the DOI and assigned to the individual articles. As the DOI is quite expensive, it may be implemented at a later stage.

11. Changing the Format and Frequency of Publication

Publishing the journal in print format may be completely stopped and the journal may published only in electronic format which in turn can save time, money and effort. Also, the publication frequency may be increased from yearly to quarterly with five to six articles per issue considering the fact that at present the yearly published print journal contains on an average 25 articles per volume/issue. Moreover, increasing the frequency in electronic format requires no additional effort from the part of the journal management team. Also, increase in the publication frequency can attract more readers as well as authors to the journal.

12. Providing Open Access to Contents

The contents of the journal may be made freely accessible online to attract more readers and increase the citations to the journal articles. This can be compensated by implementing author fee at a later stage.

13. Open Access Policy

The Creative Commons Open Access Policy namely *Creative Commons Attribution-Non Commercial-No Derives (CC BY-NC-ND)* may be adopted for making the articles freely available. The CC BY-NC-ND permits others distribute and copy the article, and to include in a collective work (such as an anthology), provided they credit the author(s), do not alter or modify the article, and use it non- commercially.

14. Enhancing the Readership

The readers constitute a crucial component of a scientific publication and the success of the publication can be measured by the volume of readership. Hence, concerted steps may be taken to widen the readership of the journal. A strong and consistent reader base at the international level must be built by giving wide publicity and identifying the target audience of the journal in different parts of the world.

15. Getting the Impact Factor

Impact Factor, generated by M/s Thomson Reuters, one of the world's leading scientific publishing company is the most widely accepted instrument for evaluating the quality of a scientific journal. In order to get the Impact Factor the journal must be included in any one of the citation databases published by M/s Thomson Reuters such as Science Citation Index and the selection the journals to the databases is done by a rigorous evaluation process. Adherence to the stated frequency of publication, international diversity, uniqueness of coverage and quality of contents are some of the major criteria of evaluation. Hence, steps may be taken to accomplish the basic criteria for selecting the journals to M/s Thomson Reuters's citation databases.

16. Making the Journal International

Though there is no standard definition for 'International Journal', a journal which is managed by an editorial board consisting of experts from organizations around the world, publishing studies carried out in different countries, having audience beyond the boundary of its country of publication is generally considered as an International Journal. Hence, the following steps may be taken to make the journal international.

- Constitution of an International Editorial Board with eminent experts in the field working in reputed organizations across the world.
- Making concerted effort to invite the eminent scientists in the field to contribute to the journal

- Getting contributions to the journal from the scientists across the world.
- Developing reader base at international level

17. Publishing Quality Research Works

The editorial board should ensure quality of the contents of the journal. This may clearly be mentioned in the author guidelines. Publication of quality contents can also attract readers and reputed authors to the journal.

18. Publication of Interdisciplinary Research Articles

Interdisciplinary research articles may be encouraged and the same may be incorporated in the journal policy. This will also help in enhancing the readers and authors

19. Timeliness of Publication

The editorial board may formulate a fixed time schedule for various activities involved in the journal publication such as initial reviewing, peer reviewing, copy editing, layout editing, proof reading and final publication of an issue.

20. Provision for User Feedback

The journal website must have a provision for users to provide feedback on various aspects of the journal.

21. Providing Publicity

Wide publicity may be given regarding the journal under the leadership of Assistant Editor-Marketing. As already mentioned, the number of readers is the cornerstone of success of a scientific journal. The readership base may be frequently reviewed and thoroughly analyzed and appropriate steps may be taken to enhance IT. The following publicity measures may be taken:

- 1. Preparation of print brochures on the journal and dissemination of the same among the professional community including professional associations/forums in the field of communication disorders and allied areas across the world.
- 2. Making available the journal flyers on the website for downloading.

- 3. Publicizing over social media networks by posting messages and providing links to articles.
- 4. Advertising in other online and print magazines/periodicals in the field
- 5. Creation of facebook, google⁺ and twitter accounts for the journal and sharing of articles
- 6. Encouraging the editorial board members and other regular readers to publicize the journal issues

22. Analysis of Usage Analysis

The usage statistics of the journal may be done periodically analyzed appropriate steps may be taken to enhance the usage.

23. Registering Own Domain Name

A domain name may be registered for the journal based exclusively on the abbreviation of the journal title such as <u>www.bicod.in</u>. This is important for giving own identity for the journal independent of the institute. Also, this will facilitate easy access for users by directly typing the journal site address and instant identification of the site through the general and meta search engines.

24. Hosting the Website

It is strongly proposed to have own infrastructure and management of the system using the technical personnel of the Institute. The hardware system must be strong with backup facility as we have to ensure the availability of the journal online, 24 x 7 x 365. Regular downtime due to unreliable hardware components will lead to undermining of credibility of the journal. The Linux Server may preferred over Windows as the Linux platform is famous for consistency, reliability and security which are very important for an international journal.

However, hosting the site with a reputed private web hosting agency may also be considered at the initial stage of operation.

25. Generating Revenue

The institute can generate income from the proposed system by the following ways.

1. Collecting fee from the authors of the accepted manuscripts (Already mentioned).

- 2. Providing space for advertising on the website
- 3. Providing technical assistance for converting print journals published by other organizations and by giving space for hosting them on the Institute publication site.

Getting included in Indexing/ Abstracting Databases

Enhancing the visibility of the journal is important for building a regular readership. Inclusion of the journal in reputed abstracting/indexing databases pertaining to Science, Technology and Medicine (STM) such as PubMed, Web of Science, PsychInfo etc. will enhance its reputation among the scientific community and attract readers and authors from across the world. Quality, originality, importance of the scientific content and consistent following of the publication frequency are some of the major considerations in assessing a journal to be considered for inclusion in these databases.

Getting e-ISSN

e-ISSNs may be obtained for the proposed e-journals from the National Science Library, Ned Delhi which acts as National Centre for ISSN in the country.

B. System Proposed for the Student Research at AIISH

1. Up gradation of the journal and changing the Title

The Student Research at AIISH journals may be upgraded from in-house publications bringing out the articles based on the postgraduate research carried out at AIISH to national level scholarly communication platform disseminating postgraduate research findings on communication disorders carried out at institutions across country. However, the current practice of accepting all the dissertation based articles prepared by the P.G. students of the institute may be continued and only selective articles may be accepted from outside organizations. A national level editorial board with peer reviewers from across the institutions in the country may be constituted in this regard.

In this regard, The journal may be stopped publishing under a common title Student Research at AIISH and the Part A- Audiology, Part-B Speech Language Pathology and Part- C Special Education may be published as three independent online only journals with articles based on postgraduate research pertaining to the respective fields. The following names have been proposed for the independent journals.

- Indian Postgraduate Research in Audiology IPRA
- Indian Postgraduate Research in Speech IPRS
- Indian Postgraduate Research in Special Education IPRSE

Also, to cop up with the expected increase in paper submission to the journal, the frequency of the publication may be increased.

2. All other proposals made for JAIISH are also applicable for the Student Research at AIISH with suitable modifications.

Software Evaluation and Selection

This chapter explains the evaluation of the open source publishing software and the selection of the most suitable one which meets the requirement of the publication of the Journal of All India Institute of Speech and Hearing and the Student Research at AIISH.

Identification of Candidate Software

The candidate software packages for the project were identified by conducting an in depth scan of the web and searching the literature that meet the following criteria.

- 1. Suitable for serial publication
- 2. Open source and available free of cost

Four software packages met with the criteria. They are:

- a. Ambra,¹ a web-based, innovative open-source platform for publishing research articles in all areas of science, developed by the Public Library of Science (PLoS) and licensed under the Apache License, Version 2.0.
- b. Digital Publishing System (DPubS),² an open-source software system designed to enable the delivery of scholarly journals, monographs and other common and evolving means of academic discourse. DPubS was conceived by Cornell University Library to aid colleges and universities in managing and disseminating the intellectual discoveries and writing of scholars and researchers.
- c. Drupal³, an open source content management platform which allows easy organization and management of content including journal articles with an endless variety of customization. It' is developed and maintained by Mr. Dries Buytaertand distributed under the terms of the GNU General Public License. ³
- d. Open Journal System (OJS)⁴, a journal management and publishing system that has been developed by the Public Knowledge Project (PKP) through its federally funded efforts to expand and improve access to research.

Evaluation and Selection

Each of the four candidate software packages were locally installed and further evaluated based on a detailed set of evaluation criteria derived from literature and the Open Source Standard Evaluation criteria proposed by the ISO 9126 software quality criteria⁵. These are given in table 6.

0.33			Software					
S.N	General Criteria	Ambra	DPubS	Drupal	SfO			
1	Wiki based support	Ν	Y	Y	Ν			
2	Blog based support	Y	Ν	Ν	Y			
3	Availability of mailing list	N	Y	N	Ν			
4	Commercial support	Y	Ν	Y	Y			
5	Online tutorial	Y	Ν	Y	Y			
6	Technical documentation	Ν	Y	Y	Y			
7	Development of User Manual	Y	Y	Y	Y			
8	Active User Community	Ν	Ν	Y	Y			
9	Error report submission availability	N	Ν	N	Ν			
10	Help desk support	Ν	Ν	Y	Ν			
11	Facility for reporting bug	N	Ν	Y	Y			
12	Fixing of bugs	Ν	Ν	Y	Y			
13	Ability to run on windows platform	N	Ν	Y	Y			
14	Readability of the source code	Ν	Y	Ν	Y			
15	International diversity	Y	Ν	Ν	Y			
16	Easy to install	Y	Ν	Y	Y			
	E-publishing Capability Evaluation Criteria							
17	Support for multiple publication	Y	Y	Y	Y			
18	Configurability of metadata fields	Ν	Ν	Ν	Y			
19	Configurability of administrative setup	Ν	Y	Y	Y			
20	Configurability of editorial workflow	N	Ν	Ν	Y			

Table 5: Check List for Evaluation of the Software

21	Facility for designing style sheets	Y	N	Y	Ν
22	Full text search and retrieval facility	Ν	Ν	N	Y
23	Mechanism for user authentication	N	Y	Ν	Y
24	Support for publishing in multiple format	Y	Y	Y	Y
25	Capturing and creation of metadata for all contents	Ν	Ν	Y	Ν
26	Ability to define optional and mandatory metadata	Y	Y	Ν	Ν
27	Facility to control access through user name and password	Ν	Ν	Ν	Y
28	Facility to control access through IP	Ν	Ν	Ν	Y

Y = Yes; N = No

Totally, 9 points each were obtained for Ambra and DPubS, 15 for Drupal and 20 for Open Journal System. Based on this, OJS was selected for developing the publication system of the Institute journals. The OJS has a strong developer community and the source code is getting reviewed and updated on a regular basis for both linux and windows platform. The system is very flexible in that at any time it can be shifted from Windows to Linux or vice versa.

Development of the Proposed System

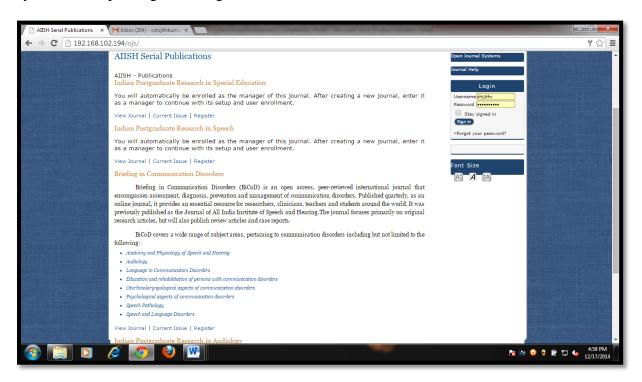
In this chapter the design and development of the proposed system using the selected software application have been discussed. The required tables were created using MySQL Database and an Apache web server was configured. Codes/ scripts were written using PHP scripting language for necessary customization of the software to suit the requirements of the proposed system features and functionalities mentioned in the previous chapter.

Development of Prototype Hosting System

A common hosting system has been developed for all the four proposed journals namely,

- 1. Briefing in Communication Disorders
- 2. Indian Postgraduate Research in Audiology
- 3. Indian Postgraduate Research in Speech
- 4. Indian Postgraduate Research in Special Education

The common hosting system will facilitate easy and effective management of the journals at one place by the Journal Manager and Site Administrators. A screen shot of the hosting system developed is given in figure 1.





Prototype for the Journal of All India Institute of Speech and Hearing

As proposed a website has been designed for JAIISH in the name Briefing in Communication Disorders, the home page of which is given in figure 2.

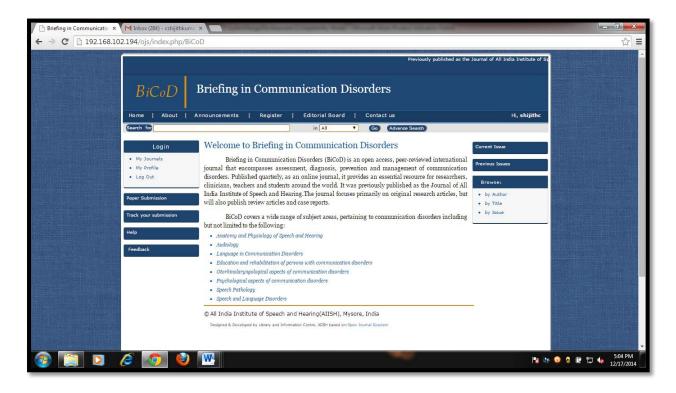


Fig.2: Home page of Briefing in Communication Disorders

Design and Development of Journal Sections: The following five sections have been developed for the journal. Of these, Hearing, Language and Speech are the research article sections. The journal sections are given in figure 3.

- 1. Hearing
- 2. Language
- 3. Speech
- 4. Case Reports
- 5. Book Review

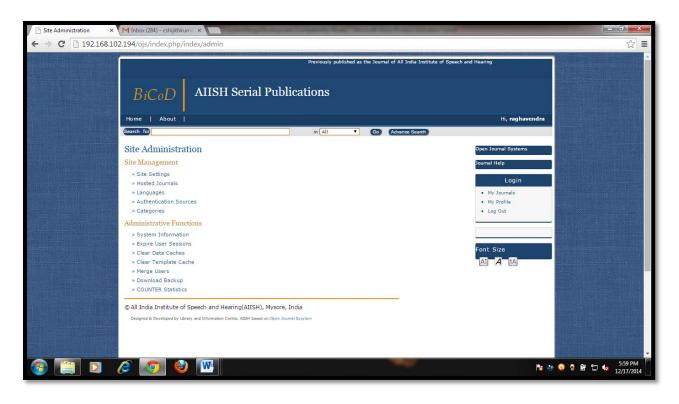
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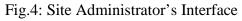
Fig.3: Journal Sections

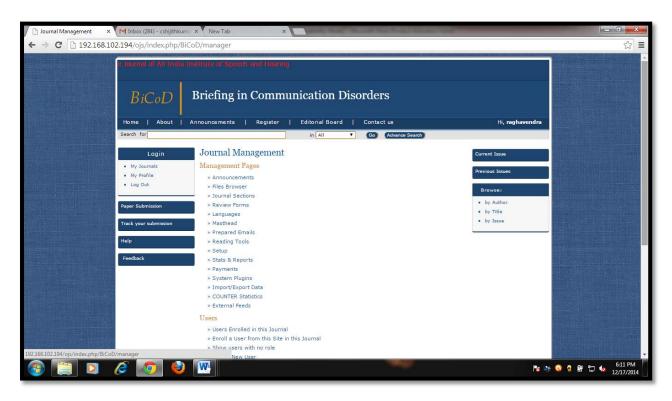
Functional/ Working Roles: The following roles have been set up for carrying out various activities from submission of manuscript by an author to publication of an issue, and the journal website management and maintenance. Of these, the Section Editor, Copy Editor, Layout Editor, Proof Reader, Reviewer, Author and Reader roles have been configured to accommodate more number of users.

- 1. Site Administrator (Figure 4)
- 2. Journal Manager (Figure 5)
- 3. Managing Editor (Figure 6)
- 4. Section Editors (Figure 7)
- 5. Reviewer (Figure 8)
- 6. Copy Editor (Figure 9)
- 7. Layout Editor (Figure 10)
- 8. Proof Reader (Figure 11)
- 9. Author (Figure 12)

10. Reader (Figure 13)

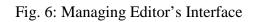


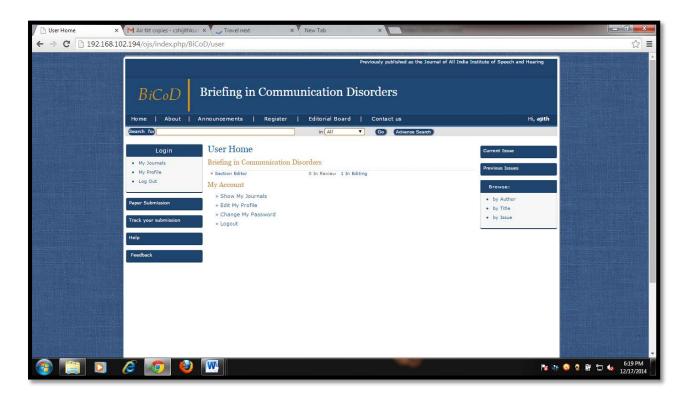


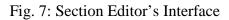




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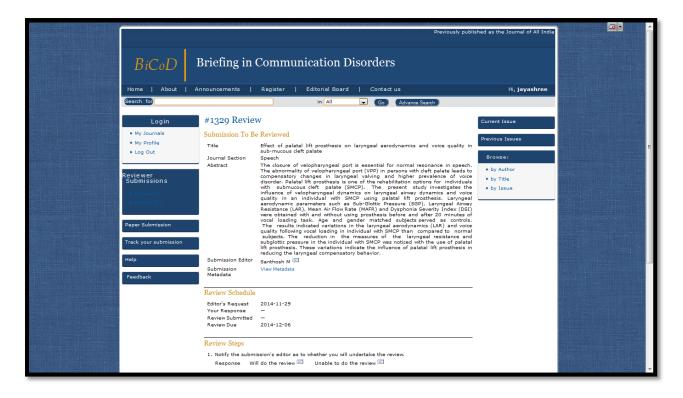


Fig.8: Reviewer Interface

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Briefing in Communication Disorders	Login
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Fig. 9 : Copy Editor's Interface

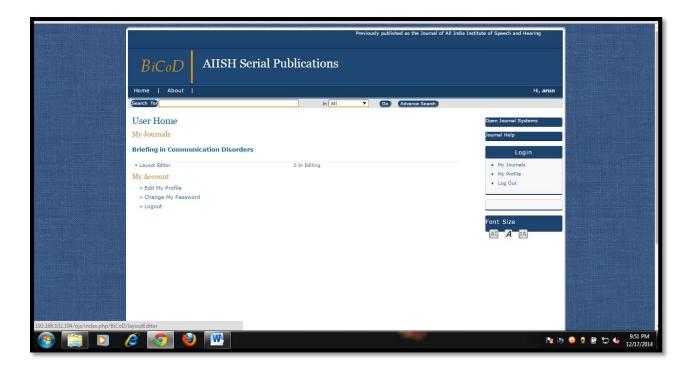


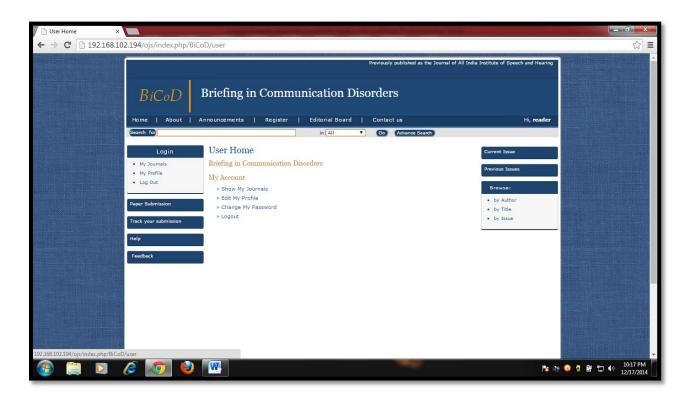
Fig. 10: Layout Editor' Interface

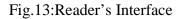
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Fig. 11: Proof Reader's Interface



Fig.12: Author's Interface





User Registration: It has been made mandatory for the users to register with a valid e-mail id on the website to submit manuscripts to the journal as well as to read the articles published. A registration form has been designed and developed in this regard as shown in figure 14.Provisions have been made in the form to register as author or reader or both.

BiCoD	Briefing in Communication Disorders		
Home About .	Announcements Register Editorial Board Contact us		
Login Username Password	Register Fill in this form to register with this site. Click here if you are already registered with this or another journal on this site.	Current Issue Previous Issues	
Sign in »Forgot your password? Paper Submission	Profile Username * The username must contain only lowercase letters, numbers, and hyphens/underscores.	Browse: • by Author • by Title • by Issue	
Track your submission Help	Password * The password must be at least 6 characters. Repeat password * Salutation		
Feedback	Middle Name Last Name Initials Gender Affilation		
	(Your institution, e.g. "Simon Fraser University") Signature		
	Email * Privacy Statement		

Fig.14: Online User Registration Interface

Manuscript submission: The online manuscript submission process to the journal has been designed and developed as a five step process as shown in figure 15.

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Figure 15: Manuscript Submission Interface

Editorial, Peer Review and Publication Processes: Settings have been made for taking the manuscript accepted for publication to initial editorial review, peer review, copy editing, layout editing, proof reading and the final publication of the issue as shown in figures 16-21.

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Home About	Announcements Register Editorial Board Contact us	Hi, santhosh
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	 All Reviewers have returned with their comments, but no decision is recorded. Author has uploaded a revised manuscript. 	
	Reviewer is overdue to confirm peer review invitation	
	Reviewer is overdue to complete review	
	"Due" is filled in when reviewer accepts request to review; it displays number of weeks to review's due date or (-) weeks that it is overdue.	
	© All India Institute of Speech and Hearing(AIISH), Mysore, India	

Fig. 16: Initial reviewing by the Section Editor

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My Profile Log Out	Title Journal Section	Effect of palatal lift prosthesis on laryngeal serodynamics and voice quality in sub-mutous cleft palate Speech	Browset
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Fig. 17: Peer Reviewing of the manuscript

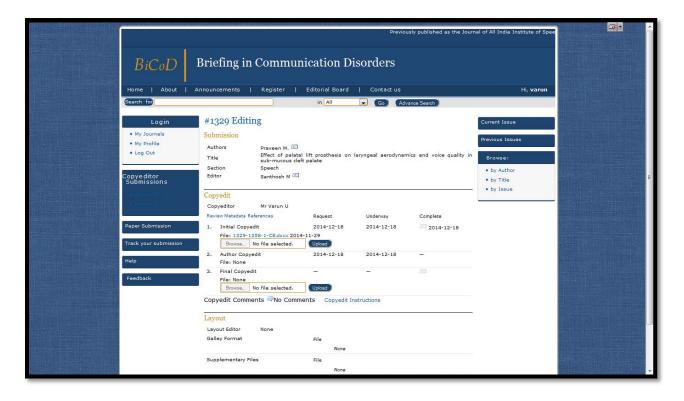
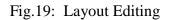


Fig. 18: Copy Editing

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Fig. 20: Proof Reading

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Fig. 21: Creation of issues

Access to Archival Issues: Settings has been made to access all the previous issues of the journal as given in figure 22.

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Home About Announcements Register Editorial Board Contact us						
Search for	in All • Go (Advance Search)					
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Stay signed in	Vol 32					
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Paper Submission	Vol 31	by Issue				
Track your submission	2011					
Help	Vol 30					
Feedback	2010					
	Vol 29, No 2					
	Vol 29, No 1					
	2009	×				
	Vol 28					
	2008					
	Vol 27					
	2007					
	Vol 26					
	1993					
	Vol 24					

Fig. 22 : Archival Issues

Design and Developing of Searching System: A comprehensive search system has been developed to enable author, title, and keyword searching of the journal issues as given in figures 23 to 27.

BiCoD	Briefing in Communication Disorders	
	Announcements Register Editorial Board Contact us	Hi, santhosh
Search for	in All Go Advance Search	
Login	Search	Current Issue
My Journals	Search for Search	
My Profile		Previous Issues
Log Out	 Additional Search Options (click to hide) 	Browse:
		by Author
Paper Submission	Search categories	by Title
Track your submission	Authors	by Issue
	Title	
Help	Abstract	
Feedback	Full Text Supplementary File(s)	
THEODECK		
	Publication Date	
	From	
	Until • • •	
	Index terms	
	Discipline(s)	
	Keyword(s)	
	Type (method/approach)	
	Coverage	
	All index term fields	
	Search	
	Issue Title	

Fig. 23: Searching Interface 1

Home About	Announcements Register	Editorial Board Contact us		Hi, santhosh
search for		in All Go Advance Search		
Login	Search		Current Iss	ue
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aper Submission	Issue	Title	 by Ride by Title 	
	Vol 30	Vowel identity and intelligibility	Abstract PDF • by Issu	
rack your submission	Vol 30	at three different pitch levels in Indian classical singing	Abstract PDP • Dy Issu	ie
telp	S. Jasmine Lydia, K. Pramo			
Feedback	Vol 15	Fundamental frequency in speaking singing reading and phonation	PDF	
	N. P. Nataraja, A. Jagadish,	P. J. Kumar		
	Vol 18 M. Ragini	Acoustic parameters of voice in singing	PDF	
	Vol 4	Methods of locating optimum pitch	PDF	
	N. P. Nataraja			
	Vol 28	Analysis of voice in Yakshagana singers	PDF	
	Usha Devadas, B. Rajashek Vol 5 & 6	A comparative study of vocal	PDF	
		parameters of trained and untrained singers		
	Sheela Kumar Vol 22 & 23	Apply of singles using	PDF	
	G. Sujatha	Analysis of singing voice	PDF	
	Vol 16	Speech sciences-its relevance and applications	PDF	
	M. Jayaram, N. P. Nataraja	The second s		
	Vol 28	Use of personal music system: does it cause hearing loss or tinnitus?	PDF	
		Shwetha Krishnan, B. Rajashekar		
	Vol 11	Acoustic factors in musical phonation : a study in off-pitch phenomenon	PDF	
	Jai Prakash Gupta			

Fig. 24: Searching Interface 2

lome About	Announcements Register Editorial Board Contact us	Hi, santhosh
kome About arch fo) Login • My Journals • My Profile • Log Out • About • About	Announcements Register Editorial Board Contact us in All Contact us Browse Author Index A B C D E F G H I J K L M N O P Q R S T U V W X Y Z All S Satyabrata Shekhar Satyanarayana Mahapatra Satyandar Kumar Savalam. G.R. Prakash Savithri S. R. Schery Teris K. Seby M. M. Seana K. Shabina Raoof 21 - 30 of 148 Items << 1 2 3 4 5 6 7 8 9 10 >>>	Hi, santhosh Current Issue Previous Issues Browse: • by Author • by Tible • by Tible
	© All India Institute of Speech and Hearing(AIISH), Mysore, India Designed & Developed by Library and Information Center, AIBH based on/Open Journal System	

Fig. 25: Searching Interface 3

	BiCoD Briefing in Communication Disorders		
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earch for	in All 🔹 🚱	Advance Search	
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My Journals			
My Profile	Issue	Title	Previous Issues
Log Out	Nay, don't teach me morals' - a case study in behaviour modification - nocturna with psychopathic trendsVol 2 K. G. Das, J. Bharath Raj	enuresis	Browse:
Paper Submission	PDF	Details	by Author
Papa Submission	The mischief of categorization in speech pathology Vol 5 & 6		by Title
Track your submission	S. S. Chandrashekar, P. Ramanjaneyulu		by Issue
raek your saomosion	PDF	Details	
Help	3D-language acquisition test (3D-LAT)Vol 18 Geetha Herlekar		
Feedback	EDF	Details	
	A case for computerising syntactic transformations in augmenting commu developmentVol 21 G. Purushothama	unication	
	PDF	Details	
	A case of 'Functional Dysarthria'Vol 4		
	Maya Devi		
	PDF	Details	
	A case of dysarthriaVol 1		
	B. N. Pranesha Rao	Details	
	POF POF	Details	
	A case of general paralysis of insanityVol 1 Prathibha S. Shetty		
	PDF	Details	
	A case of hysterical deafness and its managementVol 8 R. S. Greval, Bhagat Singh		
	PDF	Details	
	A case of stuttering treated successfully with aversive noise techniqueVol 1		
	P. Mahananda		
	DF POF	Details	

Fig. 26: Searching Interface 4

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My Profile Log Out	JAIISH, Vol 29(2), 2010 Age and gender differences in	and the second se
		Browse:
aper Submission	AGE AND GENDER DIFFERENCES IN PERSONS WITH STUTTERING	 by Author by Title
rack your submission	*Nisha Sudhi, **Merin John, ***Y.V Geetha	· by Issue
	Abstract	
kip	Gender difference in stuttering is a much talked debated issue. A lot of studies have been done	About The Authors
Feedback	on this, mostly in the western countries. Stuttering is not only reported to be less common in lemales compared to males, with a 1:4 ratio, but its onset, development and recovery	Nisha Sudhi
	characteristics are more in layour of lemales. The present study is aimed to explore the similarities and differences in nature of disfluencies, if any, in male and female persons with	Merin John Y. V. Geetha
	stuttering, across the age groups in the Indian context. A retrospective analysis of 132 case	
	files of all clients registered with the complaint of stuttering over a period of 6 months was made. The data was analyzed in terms of age of onset, nature and type of onset, associated	Article Tools
	problems and etiology of stuttering, across the gender and age groups. Across gender, significant differences have been obtained in most of the carameters under study and across the age and	-
	within gender too significant findings have been observed. The study confirms many of the	Indexing metadata
	earlier findings by other authors with regard to gender differences in stuttering. Female PWS are different in the onset, nature, development, sevenity characteristics of stuttering compared	How to cite item
	· · ·	Finding References
	Fullscree	n Review policy
6	DAll India Institute of Speech and Hearing(AIISH), Mysore, India	Email this article
	Designed & Developed by Library and Information Centre, AIISH based on:Open Journal Sysytem	Email the author
		Post a Comment



Prototype for the Student Research at AIISH

Setup has been made for publishing the Student Research at AIISH as three separate journals as shown in figure 28.

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by Title by Issue		

Fig.28: Interface for Student Research at AIISH journal

Concluding Remarks

The present project developed web based platforms for the Journal of All India Institute of Speech and Hearing and the Student Research at AIISH towards getting them global visibility and readership. The system developed facilitates the entire processes of journal publishing online from the manuscript submission, peer reviewing, editorial activities to the final publishing of the journals. Also, it offers a wide range of features and functionalities including reading tools and searchable online archives of previous issues. The major advantages of the proposed publishing system are that it is less expensive and the operation is simple and its launch will benefit the professional community across the world.

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