**System Planning, Design and Development**

**System Planning and Design**

Proper planning was carried out for the successful implementation of the national database on communication disorders by taking the following decisions.

* The resources to be included in the database: journal articles, book chapters, books and conference papers in the field of communication disorders published from the country with provision to include more types of resources in future.
* The end user community was defined as faculty, technical staff, research scholars, students and administrators of the Speech and Hearing organizations across the country and abroad.
* The content uploading in future by the researchers or the contributors themselves with the verification by the database administrators at the Library and Information Centre.
* Restrict the content only to the abstracts with link to the full-text wherever available with provision to accommodate the full-text directly in future.
* Supporting file type: PDF with provision to support more file types in future.
* Restrict access only for the registered users and provision for free registration
* Facility for author, title, subject, year, Institution, resource type and keyword based searching.
* Facility for usage report generation by the administrators
* Facility for data backup by the system administrator
* Item description using metadata standard
* User interface to design for End Users, Submitters and System Administrators
* To develop the database on DSpace with the required tables created using MySQL and apache web server. Codes/ scripts to be written using PHP scripting language.
* Creation of Top Level Communities under (a) Speech-Language, (b) Hearing (c) Speech & Hearing.
* Creation of Collections under Journal Articles, (b) Books, (c) Book Chapters, (d) Conference Papers.

**Work Flow**

User Access

Already registered?????

Register

No

Yes

Enter username & access

Submit resource?

Access submission form & submit

Yes

No

Refer the resources

**System Development**

Concluding Remarks

The present project developed a literature database on communication disorders published in India. The system will facilitate centralized access to the Indian scientific literature on communication disorders and increase the visibility of Indian publications which in turn will lead to increase in the citation of our publications. The database is developed on DSpace, an open source digital library software used world over for building digital library applications. Currently, the database includes the journal articles published in Indian journals, books and book chapters and the conference papers. In future, the database will be expanded to include theses and dissertations carried out in different speech and hearing organizations across the country and the Indian studies reported in foreign journals, books and conference proceedings. Also, the Editors of the India journals in the field will be contacted to provide the bibliographic details of the articles published on a real time basis.