**Materials and Methods**

The following materials and methods were used for carrying out the project work.

**3.1 Determining of subject domains and resource types**

The domain of communication disorders is basically constituted of two sub-domains: audiology and speech-language pathology. The scholarly resources published in the country in both the sub-domains were broadly categorized into the following types:

1. Journal Articles
2. Books
3. Book Chapters
4. Conference Papers

**3.2. Collection of publication and presentation information**

Various strategies and methods were used for collecting the details of Indian publications and presentation on communication disorders as they are scattered across the print and electronic media.

1. The websites of the Indian higher education and research institutions on communication disorders, as listed on the official website of the Rehabilitation Council of India (RCI), were visited to find out the details of scholarly publications produced from these organizations, if any, in the form of journals, books, and conference proceedings.
2. The official documents such as annual reports and publications like news letters available on the Indian higher education and research institutions' websites were also checked for information regarding the individual scholarly works published and presented by the faculty, staff, and students.
3. The Directory of Open Access Journals (DOAJ) and the Directory of Open Access Books (DOAB) were searched for relevant scholarly works published from the country related to communication disorders.
4. J-Gate, the literature database of 49,000 journals, and the Online Catalogue of National Library of Medicine, USA (used for Medline indexing ) were searched for peer-reviewed Indian journals in the field of health sciences. These journals were further searched for articles on communication disorders.
5. An online questionnaire was developed to contact the individual speech and hearing professionals working in different organizations and collect their publication details.

**3.3. System Design and Development**

a) A list of functionalities and features required for the proposed Indian Literature Database on Communication Disorders (ILCD) was prepared by referring COMDISDOME, the international literature database on communication disorders.

b) Two most popular open-source applications used for developing institutional repositories as per the OpenDOAR, the global directory of open access repositories, was short-listed for developing the ILCD.

c) The features and functionalities of the short-listed applications were cross-checked with the list of functionalities and features identified for the ILCD and the most suitable one was selected.

d) Several supporting open-source software applications were chosen and integrated with the software selected for developing the database.

e) The selected software application was customized as per the requirements.

f) The system thus developed was put on test, and the errors rectified.