

Digital Library Creation using DSpace

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OSS for DLs

1. Archimede: Laval University Library, Canada
2. ARNO: University of Amsterdam, Tilburg University, and the University of Twente
3. CDSware: European Organization for Nuclear Research
4. Dspace: MIT Libraries and Hewlett-Packard Lab
5. Eprints: University of Southampton
6. Fedora: University of Virginia and Cornell University
7. i-Tor: Innovative Technology-Applied- Netherlands
8. MyCoRe: University of Essen
9. OPUS: University of Stuttgart

DSpace Workflow

The basic structure of a DL built using DSpace reflects the structure of a university or educational institution. A university comprises of several departments for various faculties. There shall be several sub-components under a department like labs, library etc. DSpace satisfies this need by forming a community structure that corresponds to the departments of a university. The top level communities of DSpace look like the following;

- Department of Arabic
- Department of Biotechnology
- Department of Botany
- Department of Chemistry
- Department of English
- Department of History
- Department of Library and information Science

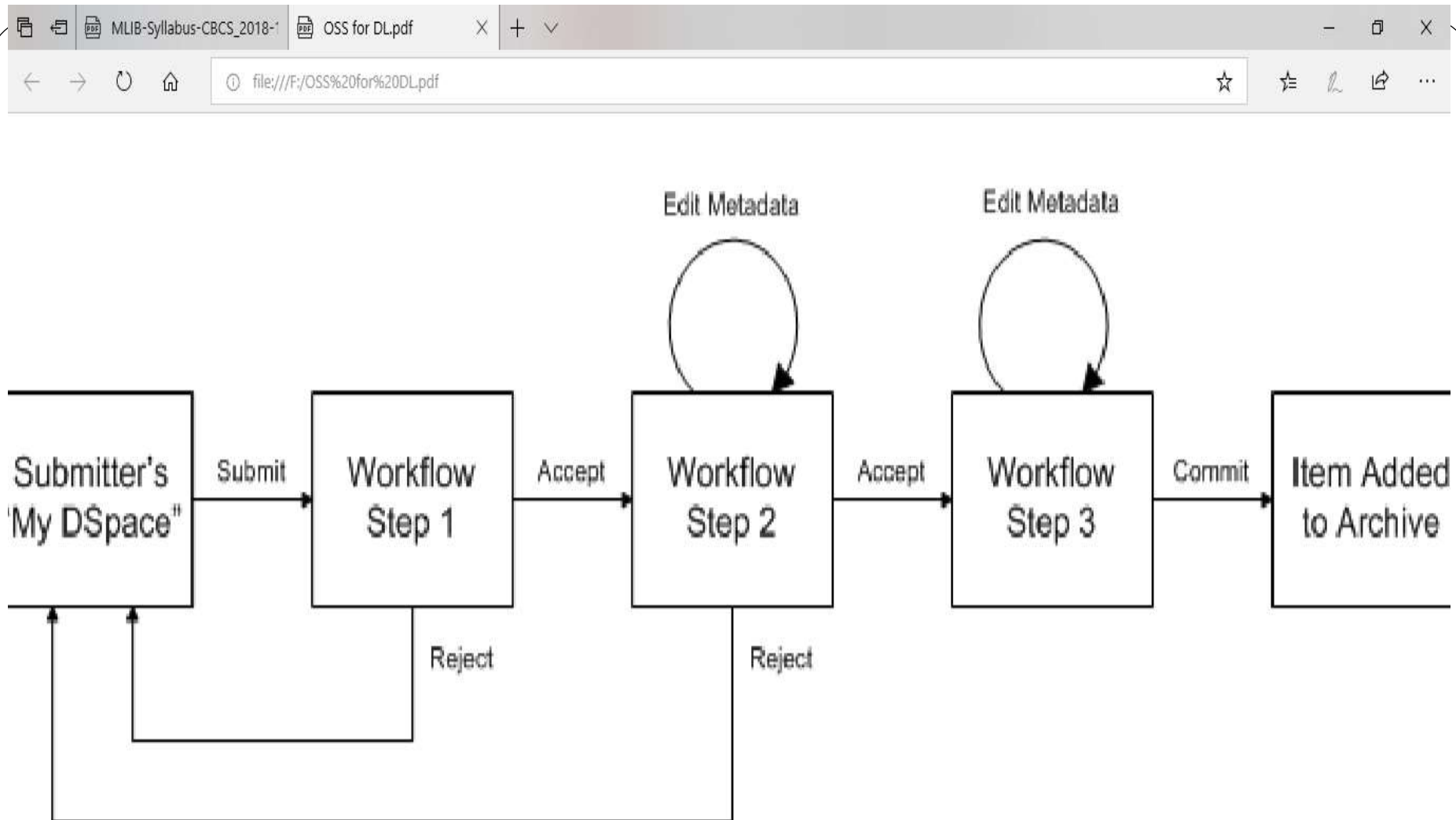


Figure 4.1: Work flow of DSpace software

Collection Building in DSpace

The process of collection building in a DSpace system is achieved through the *Administrator* and E-people.

Administrator is one who has the powers to create, delete, edit or modify Communities, Sub Communities, Collections or Items. Heads of departments, project leaders, system administrators and librarians can be an Administrator. Those who are authorized by the Administrator to upload items in a DSpace system are known as an “EPersons”. Faculty members, library staff and project members may act as Epersons. The permission to add collection by an e-person is set at the time of creating a Collection. E-person may add contents directly to a collection or through a check/verify process by the Administrator. The default submission process in DSpace involves six steps

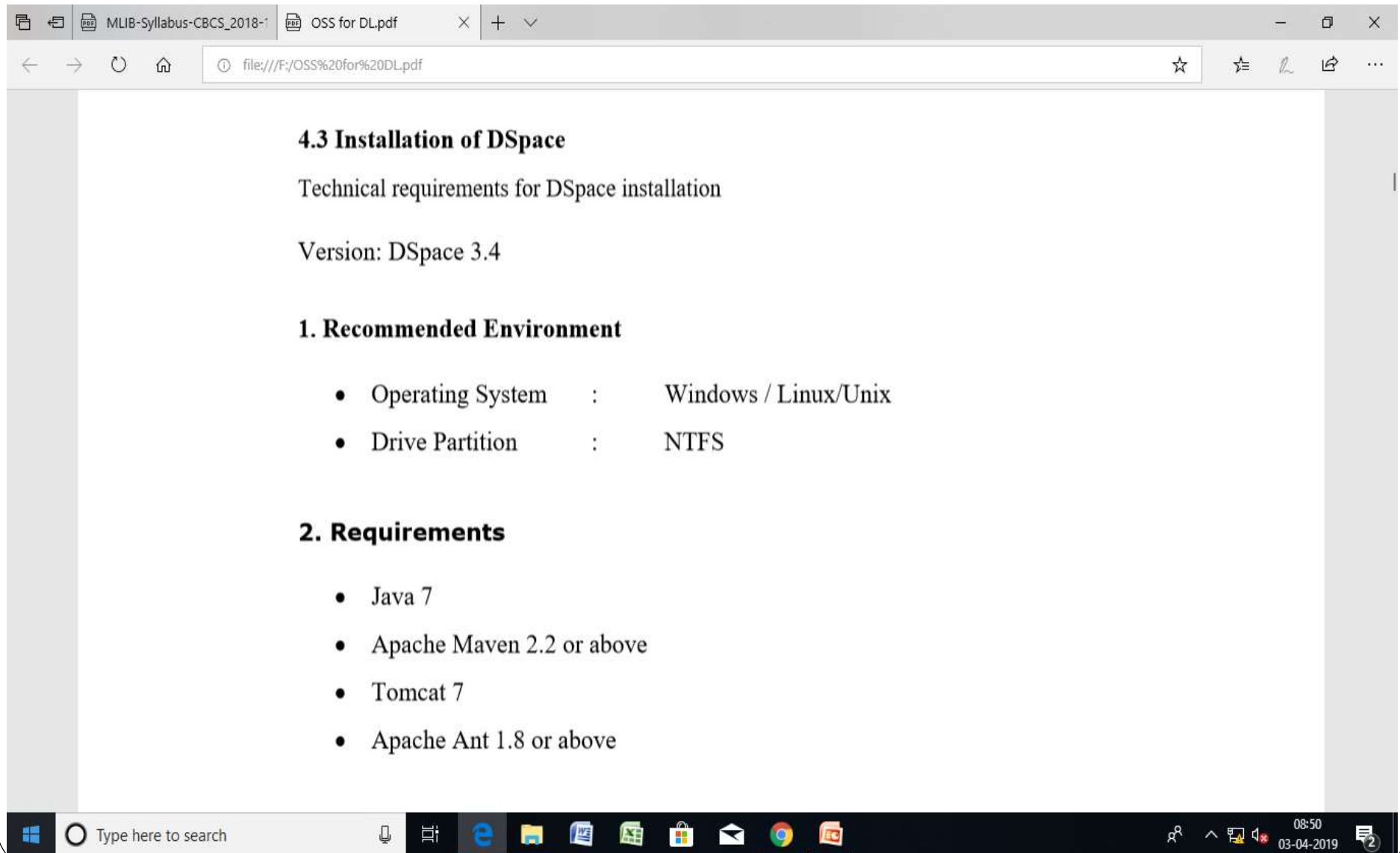
Contents in DSpace

- DSpace accepts a variety of digital objects that include both born digital and digitized from their analogue entity. DSpace is used to store scholarly articles, preprints, working papers, technical reports, theses, conference papers, paper clippings, books etc.
- The default metadata schema in DSpace is Dublin Core (DC). DC schema has the potential to elicit enough information to represent a digital object. DSpace uses a qualified version of the DC schema. Every item in DSpace is represented by a DC record to provide descriptive, administrative and structural informatio

Role in DL

- Administrator Role
- Contributor Role
- General user Role
- Submitter Role
- Metadata Reviewer Role

Installation of Dspace



The screenshot shows a PDF document titled "4.3 Installation of DSpace". The document is displayed in a web browser window with the address bar showing "file:///F:/OSS%20for%20DL.pdf". The browser tabs include "MLIB-Syllabus-CBCS_2018-1" and "OSS for DL.pdf". The document content is as follows:

4.3 Installation of DSpace

Technical requirements for DSpace installation

Version: DSpace 3.4

1. Recommended Environment

- Operating System : Windows / Linux/Unix
- Drive Partition : NTFS

2. Requirements

- Java 7
- Apache Maven 2.2 or above
- Tomcat 7
- Apache Ant 1.8 or above

The Windows taskbar at the bottom shows the search bar, task view button, and several application icons including Edge, File Explorer, Word, Excel, PowerPoint, Mail, Chrome, and a folder icon. The system tray on the right shows the time as 08:50 and the date as 03-04-2019, along with a notification icon showing 2 messages.

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- PostgreSQL 8.3 or later
- [Perl \(only required for \[dspace\]/bin/dspace-info.pl\)](#)
- DSpace 3.4

3. Download : <http://www.dspace.org>

The software can be downloaded from the above link.

MLIB-Syllabus-CBCS_2018-1 OSS for DL.pdf

file:///F:/OSS%20for%20DL.pdf

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4.4DSpace Workflow and Customization

After the successful installation of DSpace, work flow and customization are very important steps in DSpace installation. The steps for the workflow of DSpace are as follows,

1. Confirm that all the pre-requisite softwares [Apache, Tomcat, and PostgreSQL] are running properly.
2. Enter in DSpace Home Page using this link <http://localhost:8080/dspace>
3. Login to My DSpace (For DSpace administration creator should login to My DSpace).

Type here to search

08:56 03-04-2019

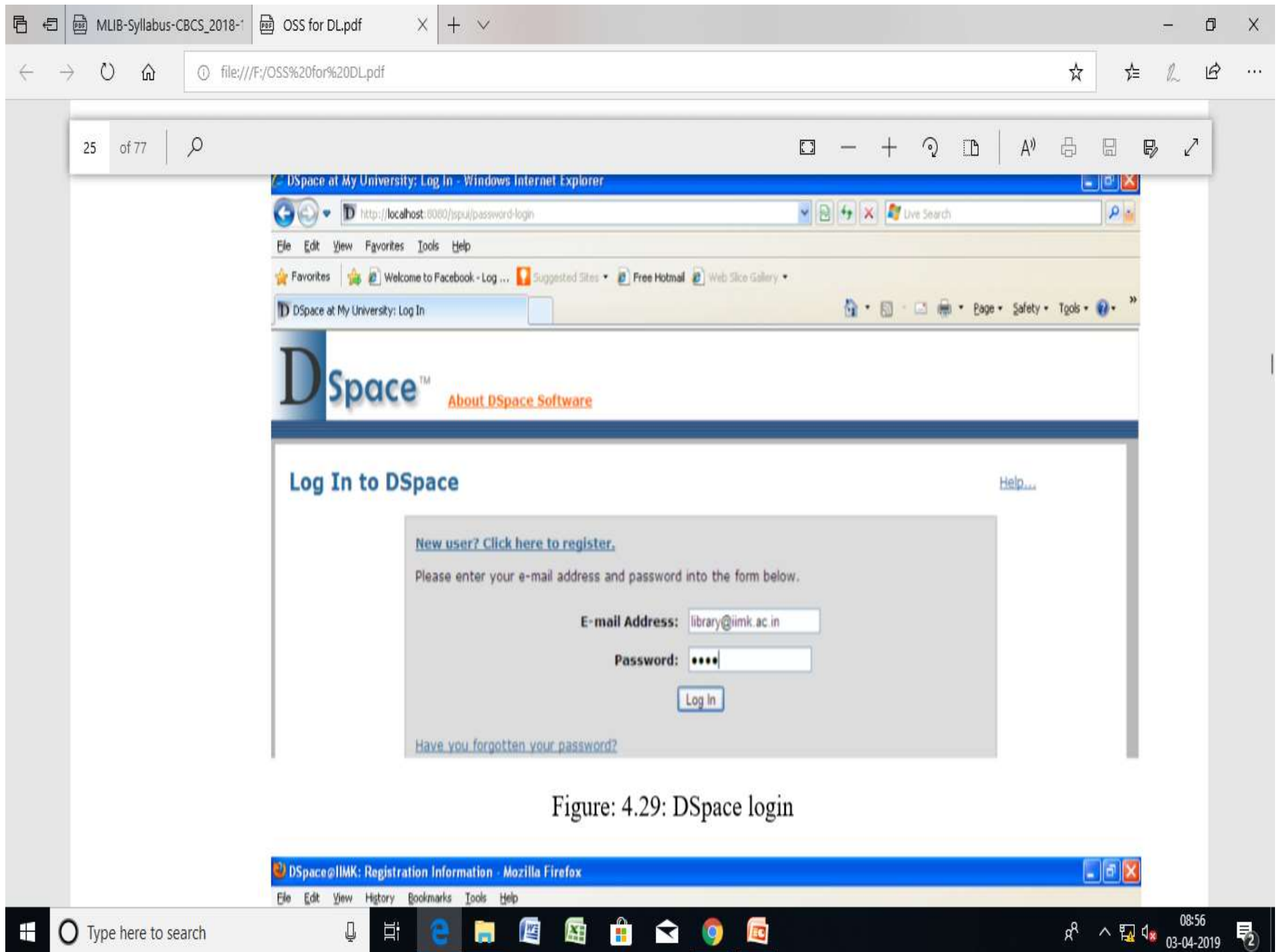
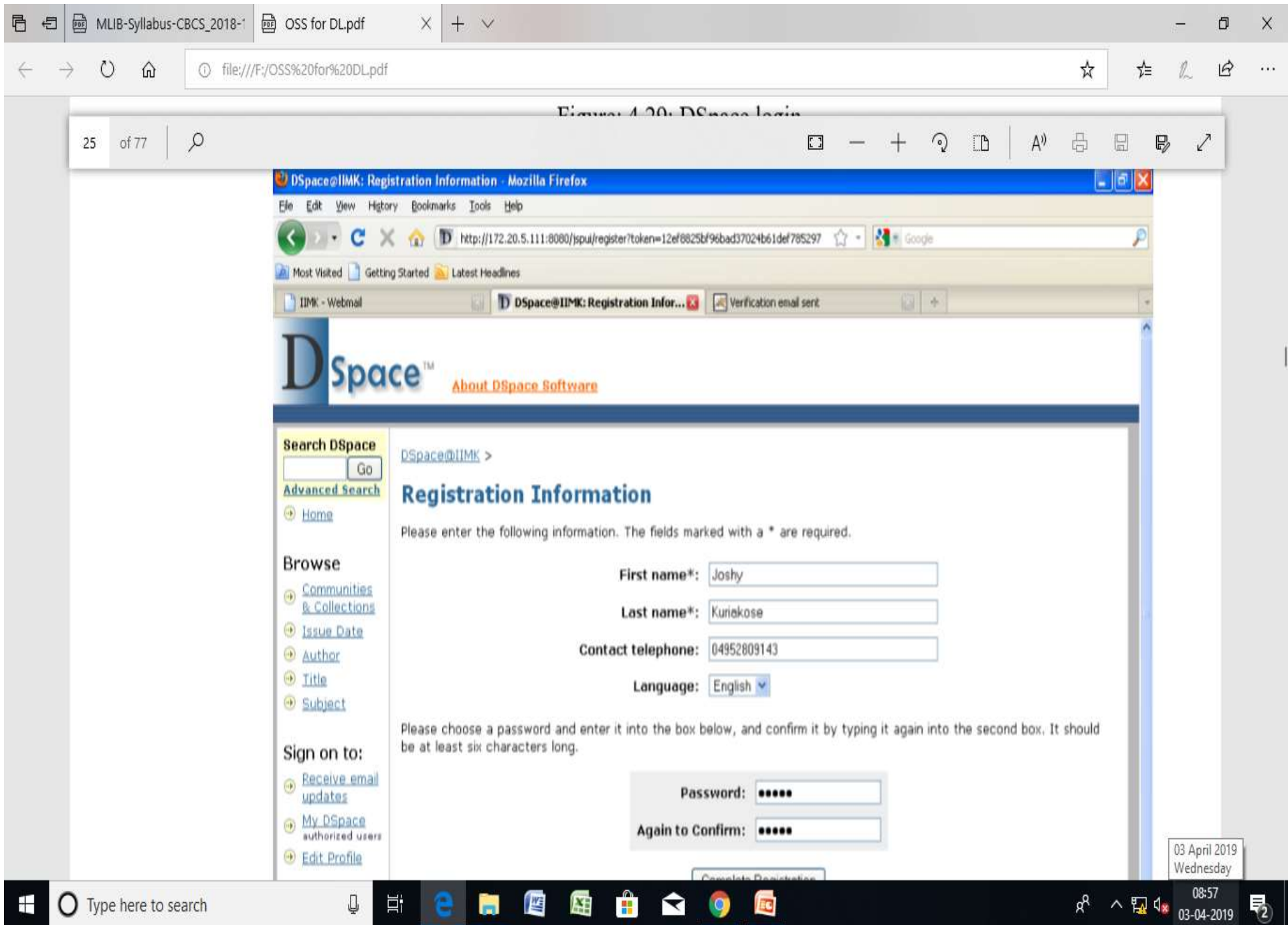


Figure: 4.29: DSpace login



Community Creation

- For community creation in DSpace Click on the Create Top Level Community button at the top of the page.
- Fill out the following forms
- Give the name of the community. The rest of the fields are optional.
- To add a logo to be displayed on the community's home page, click on the Upload a Logo button.
- After filling the relevant information relevant information for this page is finished, click on the Create button.
- Note: The Community will be given a default READ policy of anonymous. Use the authorization tool to change the default preference.


MLIB-Syllabus-CBCS_2018-1 OSS for DL.pdf

file:///F:/OSS%20for%20DL.pdf

Create a Collection

DSpace: Document Submission Workflow

- Login to Dspace using your email address and password
- Click on the Submit to this Collection link in the collection page.



DSpace™ [About DSpace Software](#)

Describe Describe Describe Upload Verify License Complete

Submit: Describe this Item

Please check the boxes next to the statements that apply to this submission. [More Help...](#)

- ☐ The item has more than one title, e.g. a translated title
- ☐ The item has been published or publicly distributed before
- ☐ The item consists of more than one file

Next > Cancel/Save

Figure: 4.35: Collection building

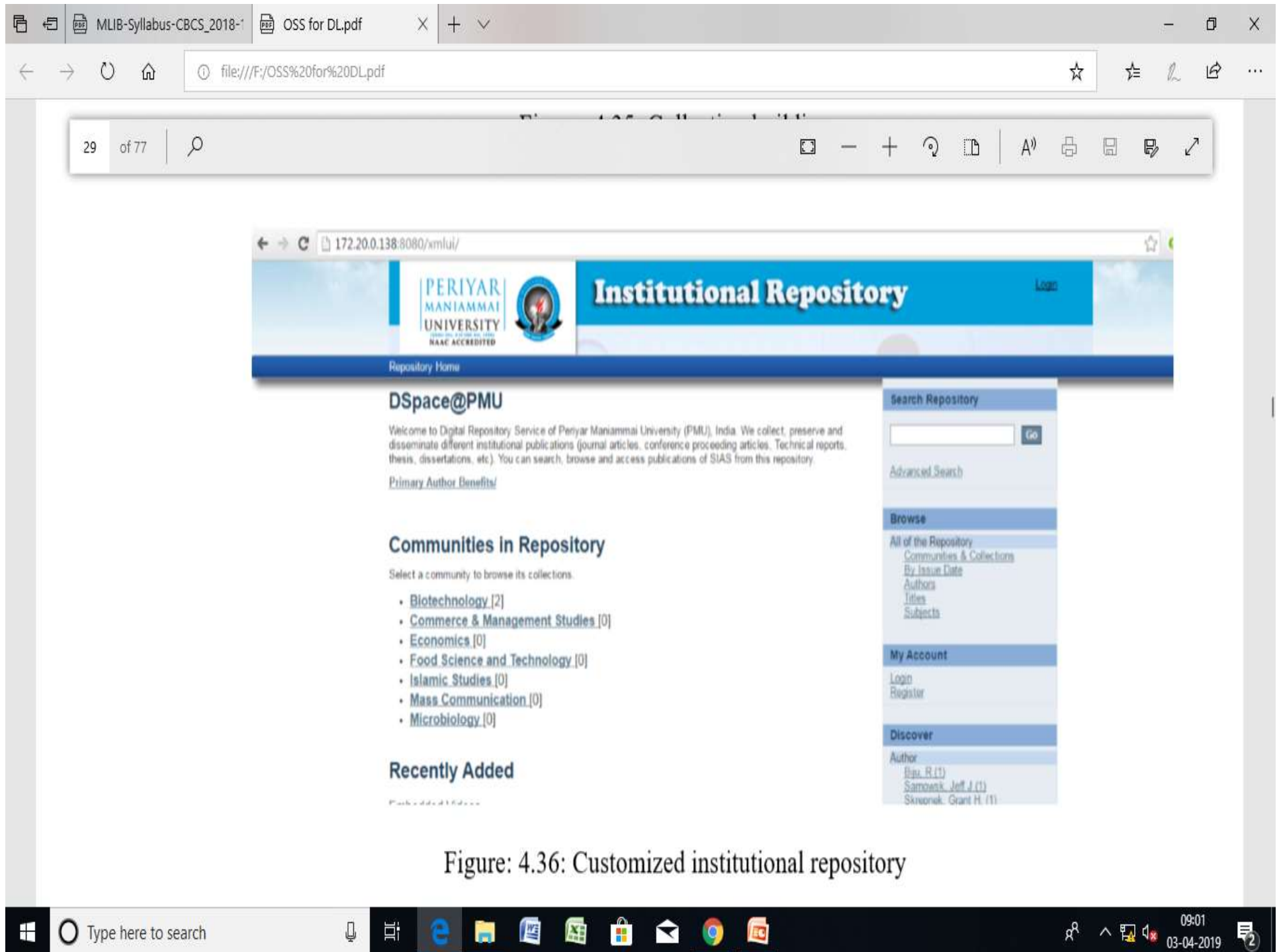


Figure: 4.36: Customized institutional repository

Any
Question