

Restructuring and Upgradation of the DSpace-based Institutional Repository of CEPT University Library: A Case Study

Presented by: Namrata Dobariya
Deputy Librarian
CEPT University Library
Ahmedabad, Gujarat

Introduction to CEPT Repository

- Implemented in Sep. 2020 using DSpace 6.3 software
- Comprise the collection of 8000+ Theses and Dissertations
- Content is restricted
- Access provided to CEPT current community only

The screenshot displays the CEPT Repository homepage. At the top, it says 'CEPT Repository' and 'CEPT UNIVERSITY'. Below this is a green banner with the text 'DSpace at CEPT University'. A central grey box contains the following text: 'The repository currently hosts final year thesis and dissertation reports. This is being constantly updated. CEPTians are requested to log-in to view the reports.' Below this, there are four columns of navigation options: 'Communities in DSpace', 'Discover', 'Guide', and 'Subject'. Each column lists various categories with item counts.

Communities in DSpace	Discover	Guide	Subject
Books & Journals	Shah, Jay (5)	Bhagwat, Prabhakar B. (238)	India-Ahmedabad-City (10)
Doctoral Programme	Shah, Riddhi (5)	Sharma, Utpal (214)	Urban public spaces (7)
Faculty of Architecture	Chandra, Tanush (4)	Vyas, Anjana (297)	Architecture, Modern (3)
Faculty of Design	Panchal, Pooja (4)	Pandya, Yatin (187)	Built environment city studies (5)
Faculty of Management	Patel, Dhruv (4)	Maheshwari, Deepa (168)	Mosque-architecture (3)
Faculty of Planning	Patel, Nirav (4)	Jain, Kutbushan B. (158)	Architectural design-Data process... (2)
Faculty of Technology	Shah, Dhvani (4)	Shivanand Swamy, H. M. (154)	Architecture (2)
Faculty Publications	Shah, Harsh (4)	Ray, Chandranath N. (132)	Architecture-Materials (2)
	Shah, Pooja (4)	Akalkotkar, Prakash V. (130)	Cities and towns-Planning (2)
	Shah, Varun (4)	Acharya, Shrawan Kumar (123)	Cultural evolutionism (2)
	next >	next >	next >

Reasons for Restructured and Upgrade Institutional Repository



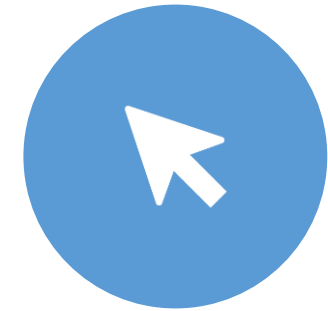
Incorporating new collections into the department-based repository



Access Control:
Strengthen security and access control mechanisms to protect sensitive and confidential content



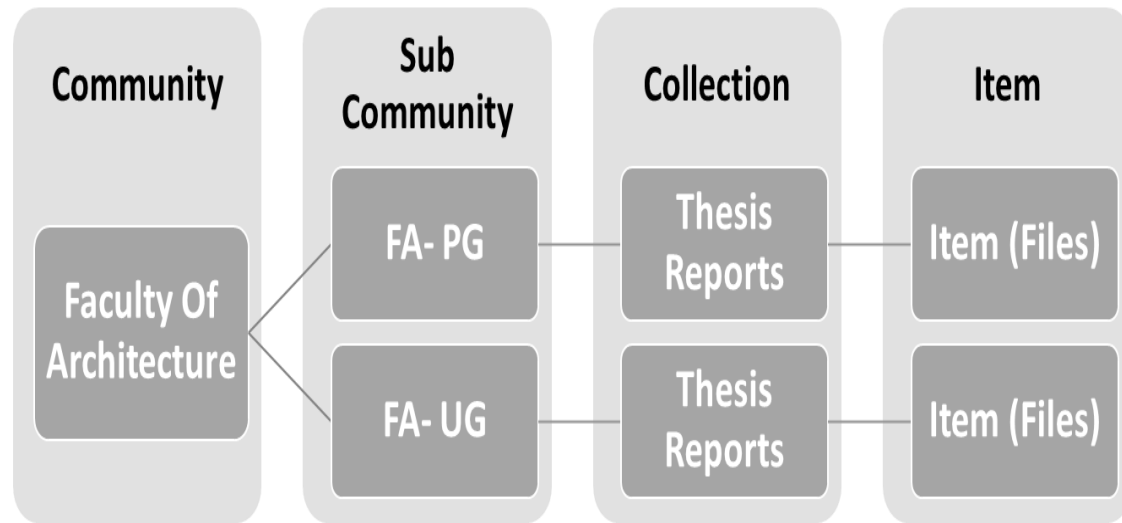
Need to enhance the user experience



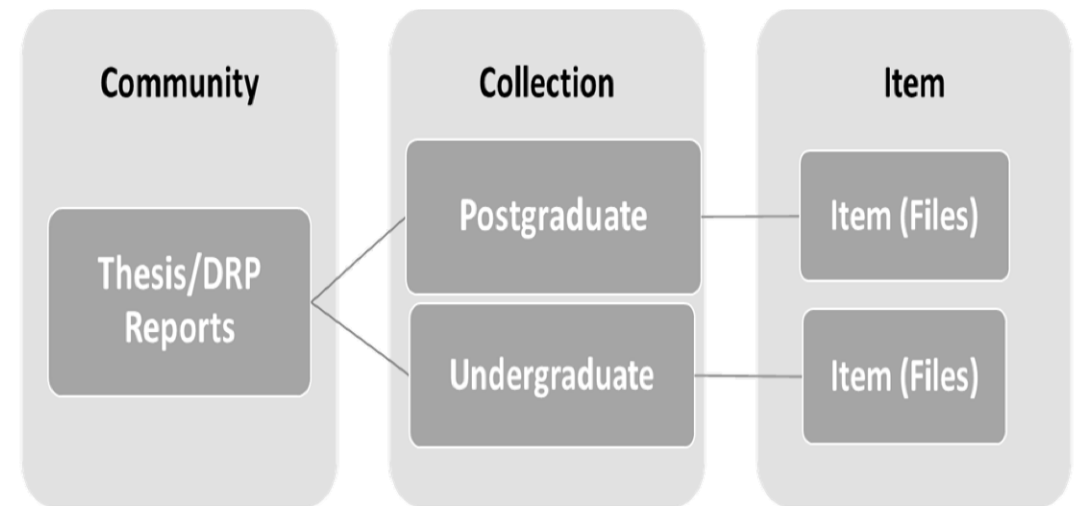
Inefficient search functionalities

➤ DSpace 7 installed with pre-requisite software and hardware

Restructured the CEPT Repository



Existing Repository Structure



New Repository Structure

Data Migration and Uploading

Migrated data from DSapce 6.3 to DSpace 7

Required to reupload data

Created Bulk Upload Template

Authorized collection with view rights

Batch uploader

DSpace Batch Uploader
Map | Validate | Upload data
In your DSpace Repository

Login

Email

password

Sign in

Home • 01. Thesis/DRP Reports • Edit Community

Edit Community

Delete this community

Edit Metadata Assign Roles Curate Authorizations

Policies for Community (9249e8d5-bf67-4704-8cc1-7f9751f0f3f0) Delete selected Add

<input type="checkbox"/>	ID	Name	type	Action	EPerson	Group	Start Date	End Date	Edit
<input type="checkbox"/>	430809			READ		Anonymous			<input type="text"/> <input type="text"/>
<input type="checkbox"/>	430822			ADMIN		COMMUNITY_9249e8d5-bf67-4704-8cc1-7f9751f0f3f0_ADMIN			<input type="text"/> <input type="text"/>
<input type="checkbox"/>	575435		TYPE_CUSTOM	DEFAULT_BITSTREAM_READ		cept_user			<input type="text"/> <input type="text"/>

Metadata in Repository

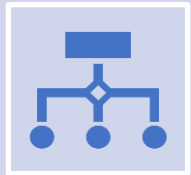
CSV file for import metadata with full text data (bitstreams) of the content:

path	dc.barcode	dc.classno	dc.contributor. advisor	dc.contributor .author	dc.date. issued	dc.pages	dc.title	dc.type[en_US]	dc centre
\\cucld\SharedDrive\RDPLIBRARY\Namrata Dobariya\Data	007871	MIAD TH-0001	GU Iyer, Anand	Gupta, Richa	2010	ii,141p.	Spatial pote	Thesis - Postgraduate	Faculty of Design
\\cucld\SharedDrive\RDPLIBRARY\Namrata Dobariya\Data	007872	MIAD TH-0002	M/ Shah, Gautam	Mangaonkar, P	2010	vii,iii,128p.	Terracotta : t	Thesis - Postgraduate	Faculty of Design
\\cucld\SharedDrive\RDPLIBRARY\Namrata Dobariya\Data	007873	MIAD TH-0003	SO Khosla, Latika	Sonar, Saili A.	2010	x,174p.	Colour confi	Thesis - Postgraduate	Faculty of Design
\\cucld\SharedDrive\RDPLIBRARY\Namrata Dobariya\Data	007874	MIAD TH-0004	SA Khanwalkar, Se	Saraswat, Smri	2010	i,194p.	Narratives in	Thesis - Postgraduate	Faculty of Design
\\cucld\SharedDrive\RDPLIBRARY\Namrata Dobariya\Data	007875	MIAD TH-0005	SIN Narayan, Shruti	Singla, Smriti	2010	i,ix,110p.	Evaluating th	Thesis - Postgraduate	Faculty of Design
\\cucld\SharedDrive\RDPLIBRARY\Namrata Dobariya\Data	007876	MIAD TH-0006	TR Rawal, Rajan	Trivedi, Chaita	2010	ii,xiii,168p.	Understandi	Thesis - Postgraduate	Faculty of Design
\\cucld\SharedDrive\RDPLIBRARY\Namrata Dobariya\Data	007877	MIAD TH-0007	KSI Jani, Bakul	Kshatriya, Pooj	2010	127p.	Navarasas o	Thesis - Postgraduate	Faculty of Design
\\cucld\SharedDrive\RDPLIBRARY\Namrata Dobariya\Data	007878	MIAD TH-0008	BO Thakkar, Jay	Borgaonkar, Sh	2010	v,106p.	Stone carvin	Thesis - Postgraduate	Faculty of Design
\\cucld\SharedDrive\RDPLIBRARY\Namrata Dobariya\Data	007879	MIAD TH-0009	AG Bhatt, Munjal	Aggarwal, Dee	2010	i,xi,136p.	Relationshi	Thesis - Postgraduate	Faculty of Design
\\cucld\SharedDrive\RDPLIBRARY\Namrata Dobariya\Data	007880	MIAD TH-0010	PA Rawal, Rajan	Padmini, R.	2010	vii,74,25p.	Potential sa	Thesis - Postgraduate	Faculty of Design
\\cucld\SharedDrive\RDPLIBRARY\Namrata Dobariya\Data	010250	MIAD TH-0011	CH Mathur, Jyotirm	Charnalia, Ash	2011	xv,87p.	Integration (Thesis - Postgraduate	Faculty of Design
\\cucld\SharedDrive\RDPLIBRARY\Namrata Dobariya\Data	010251	MIAD TH-0012	CH Iyer, Ramaswar	Chandra, Prabh	2011	218p.	Concept of o	Thesis - Postgraduate	Faculty of Design
\\cucld\SharedDrive\RDPLIBRARY\Namrata Dobariya\Data	010252	MIAD TH-0013	DE Andhare, Sridh	Deshpande, D	2011	xvii,xii,145	Impact of re	Thesis - Postgraduate	Faculty of Design
\\cucld\SharedDrive\RDPLIBRARY\Namrata Dobariya\Data	010253	MIAD TH-0014	GA Garg, Vishal	JR Gandhi, Dharm	2011	iii,vi,141p	Study of trad	Thesis - Postgraduate	Faculty of Design

Metadata elements used in CEPT IR (bibliographic fields such as):

Path(bitstream location), Barcode, Class number, Advisor(s), Author(s), Issue date, Pages, Title, Type, Center

User access Management



Existing Repository configured with Shibboleth log-in system



Shibboleth Integration with DSpace 7

Email address

Password

Log in

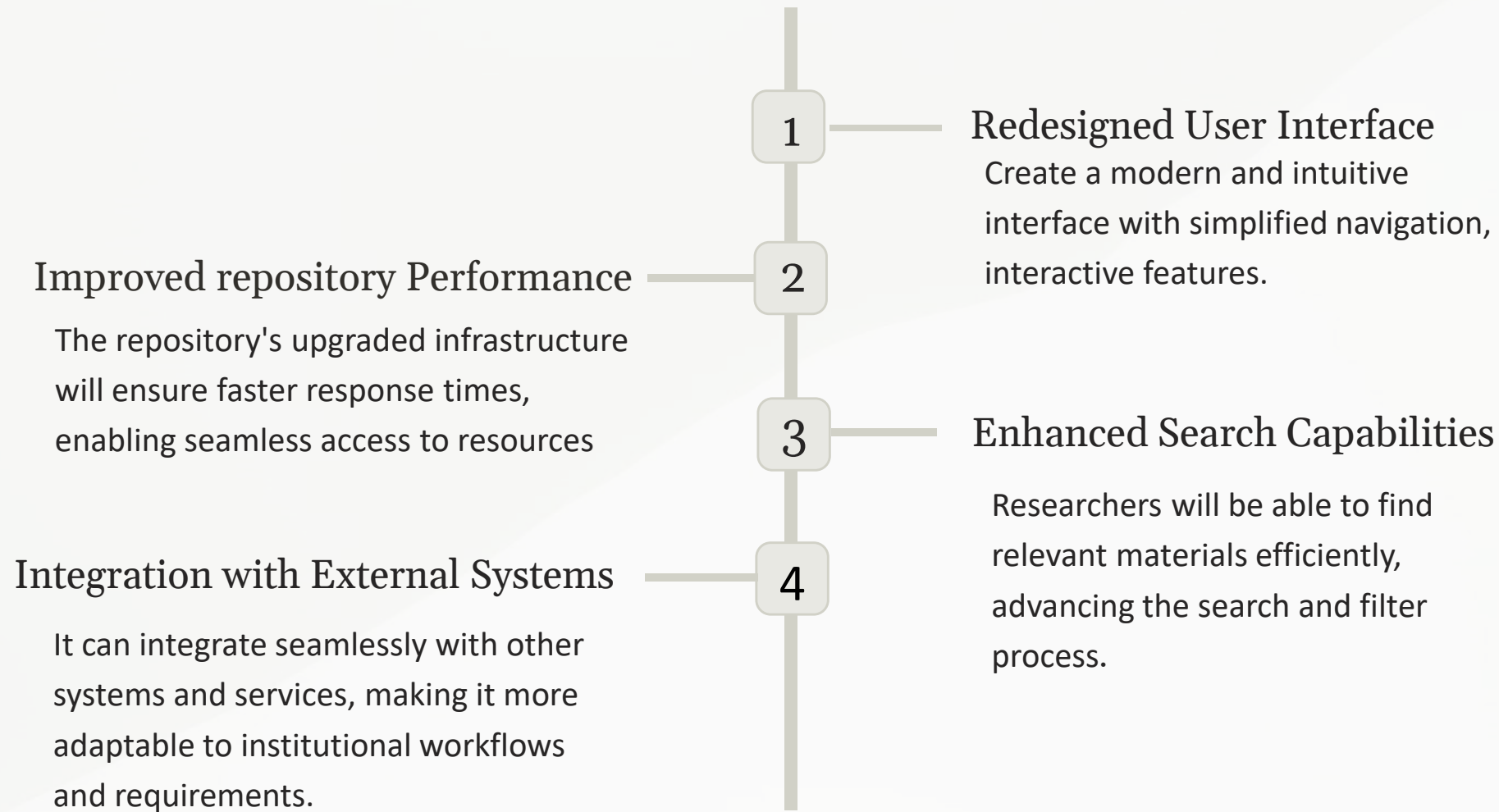
or

Log in with Shibboleth

New user? Click here to register.

Have you forgotten your password?

Key Features and Functionalities of the Upgraded Repository



Challenges

Re-upload data due to restructured the repository

Faced server problem while uploading data

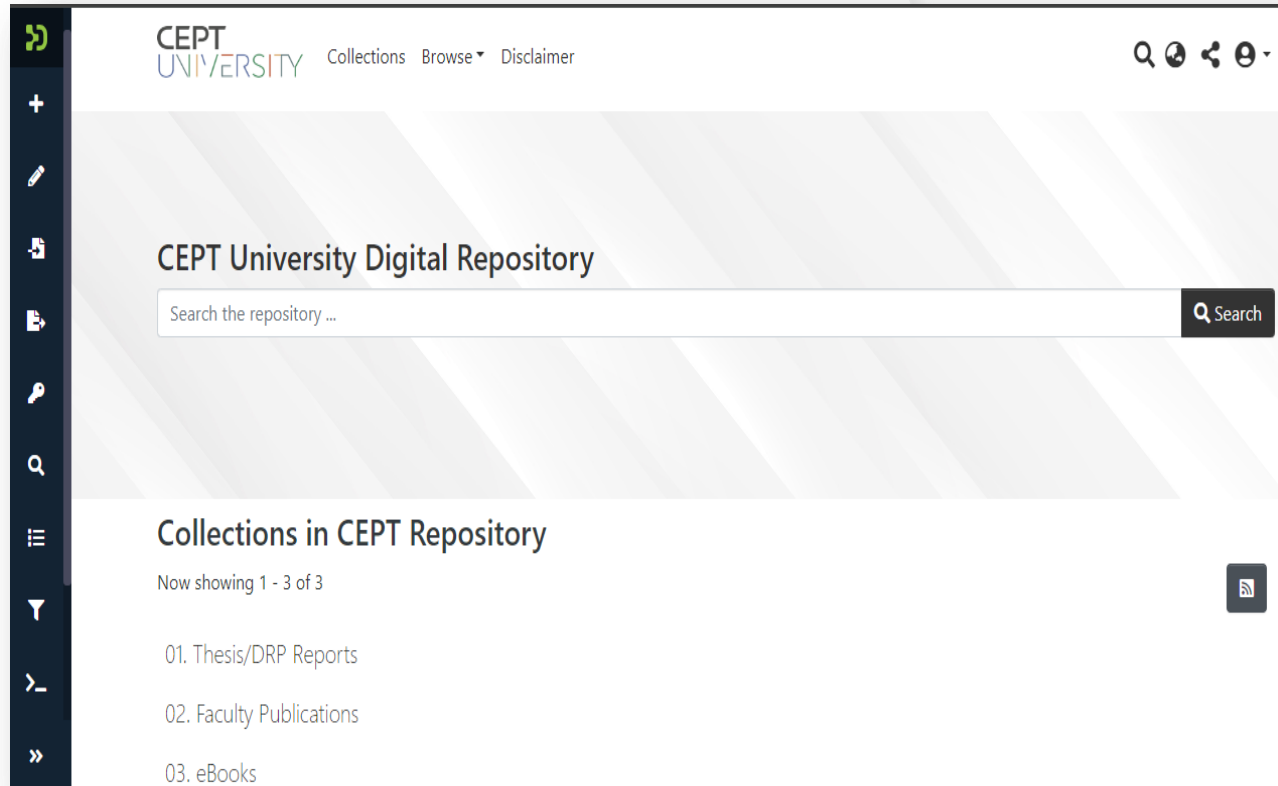
Shibboleth integration was challenging

Required to shift DSpace 7 server from Nginx to Apache



CEPT Repository is ready to be launched soon with DSpace 7 version

Future Plans and Conclusion



DSpace 7 instance of the CEPT repository



Ensuring comprehensive staff training



Create Researcher Profiles



Create a faceted search and discovery

Thank You

**Your Suggestions and Questions
are Appreciated**