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DIGITAL REPOSITORY FOR ENGLISH LANGUAGE TEACHING & LEARNING RESOURCES: A PANACEA IN THE TIME OF THE PANDEMIC

Development of a digital repository in SMK Canossian Convent, Kluang

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Introduction





COVID-19 pandemic

• Schools closed, lessons conducted online

SMKCCK's English teachers use digital teaching and learning resources from several platforms, websites, or portals eg.

- Johor English Digital Learning Resources
- British Council
- All Things Grammar
- YouTube

Teachers store resources in their own computer/hard disk/pendrive for future use.

- Locating and retrieving these stored resources can be difficult and time consuming as no standard metadata used
- Redundancy due to multiple storages
- Problem of accessibility
- Discussions were held with the school's Head of English Language Department and this led to a proposal for a digital repository to store these resources systematically in a specific location for easy retrieval.

TO DEVELOP A DIGITAL REPOSITORY PROTOTYPE FOR THE ENGLISH LANGUAGE TEACHING AND LEARNING RESOURCES IN SMKCCK

To develop structured metadata in the digital repository prototype for the teaching and learning resources.

To develop a digital repository prototype for the teaching and learning resources using the DSpace system.

3

To evaluate the level of satisfaction among users of the digital repository prototype in SMKCCK.

Related Literature

Digital Repository

- Digital repository helps to classify, catalogue, store, preserve, disseminate, and provide access to the knowledge assets or intellectual output of their organisations (Das and Chatterjee 2015; Murugan and Ravanan 2015)
- Digital repositories may be proprietary or opensource (Dhir and Dhir 2017)
- To function properly, repositories must be sustainable, trusted, wellsupported and wellmanaged (Momin and Gaonkar 2016)

DSpace

- DSpace is an open-source repository software that enables the sharing of digital contents (Asorey et al. 2015)
- It has the largest digital repository user community and developers worldwide (DuraSpace n.d.)
- Benefits of using DSpace:

 free open-source software; 2) it can manage and preserve all types of digital content; 3) it is customisable (DuraSpace n.d.)

ADDIE Model

- ADDIE model consists of five phases which are analysis, design, development, implementation and evaluation (Branson et al. 1975)
- It was originally invented in 1975 to form an instructional systems development program for military training (Branson et al. 1975)
- This model became widely used as it is a **practical and simple** instructional design framework (Aldoobie 2015; Bamrara 2018; Hadi et al. 2017)

Metadata

- Metadata refers to data about data (Baca 2016)
- It provides background information about the resource content, making it easier to retrieve, use and manage the resources (Mukhopadhyay 2015)
- There are three main types of metadata: descriptive metadata, structural metadata and administrative metadata (Prabhune et al. 2017)
- Various metadata standards are available such as Dublin Core, MARC, TEI, METS and PREMIS (Mukhopadhyay 2015)



Analysis

- Conduct needs analysis questionnaire
- Collect teaching and learning resources
- Analyse the collected data

- Categorise collection of resources
- Create alphanumeric classification for the resources

Design

- Rename resources with classification codes
- Create a metadata files using Microsoft Excel

Development

- DSpace installation
- Set up the digital repository
- Upload metadata into the digital repository
- Authorisation
- DSpace customisation

mplementation

- Introduce the digital repository prototype to the teachers
- Brief the teachers on how to use the digital repository
- Explain to teachers on preserving digital materials in the DSpace system

Evaluation

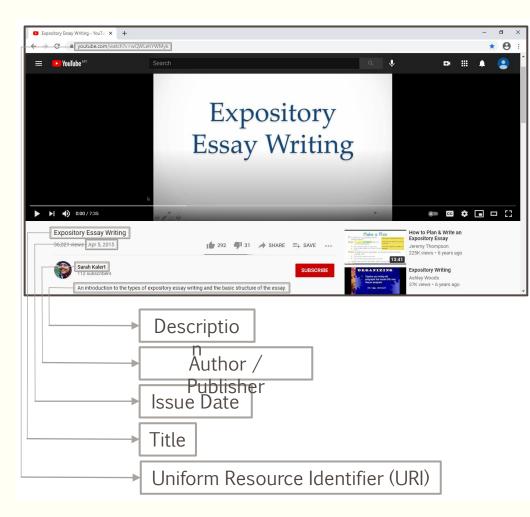
- Distribute survey questionnaire to obtain userfeedback
- Analyse survey questionnaire responses

Objective 1 Achieved

Results

From Unstructured Metadata to Structured Metadata

Unstructured Metadata



Structured Metadata

A Home Browse	▪ Help	Search DSpace	Q L Sign on to: -
/ Writing Genres	English Language Teaching and Learning Resources in SMK		uage Department SMKCC Kluang
Please use this identifier to	cite or link to this item: http://localhost:8080/jspui/handle/1	23456789/93	
Full metadata record			
DC Field	Value		Language
dc.contributor.author	Sarah Kalert		-
dc.date.accessioned	2020-12-28T13:59:58Z		
dc.date.available	2020-12-28T13:59:58Z		
dc.date.issued	2015-04-05		
dc.identifier.uri	https://www.youtube.com/watch?v=wQWLehYWMyk		
do.identifier.uri	http://localhost:8080/jspui/handle/123456789/93		
dc.description	An introduction to the types of expository essay writing an	d the basic structure of the essay.	en_US
dc.language.iso	en		en_US
dc.publisher	Sarah Kalert		en_US
dc.subject	Form 4		en_US
dc.subject	Form 5		en_US
dc.title	Form 4-5 Expository Essay Writing		en_US
dc.type	Learning Object		en_US
dc.type	Video		en_US
Appears in Collections:	Writing Genres		

Files in This Item:

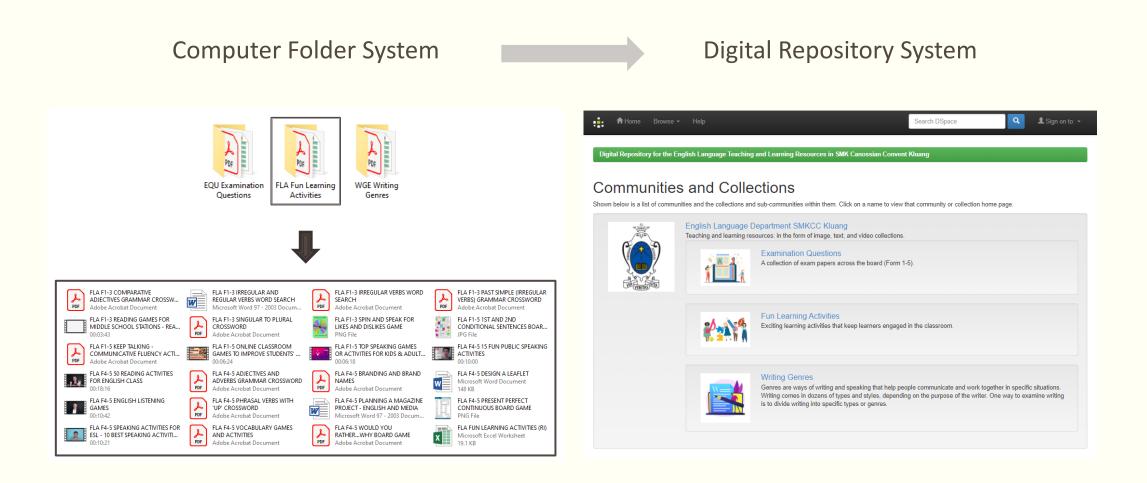
File	Description	Size	Format	
WGE F4-5 EXPOSITORY ESSAY WRITING.mp4	Form 4-5 Expository Essay Writing (2015)	9.5 MB	MPEG	View/Open

Show simple item record

Objective 2 Achieved

Results

From Computer Folder System to Digital Repository System



Objective 2 Achieved

Results

Improvement in Information Retrieval Process

Searching	Browsing					
Search DSpace	Discover Author	B	Subject	0	Date issued	
		15	Form 5 Form 4	44 38	2010 - 2020 2000 - 2009	0
Search: English Language Department -	Malaysian Examinations	9	Form 3 Form 1	27	1985 - 1989 Has File(s)	0
for Go Start a new search Add filters: Use filters to refine the search results.	Syndicate Pushpa A/P Kandasamy		Form 2	22	true	75
Title V Equals V Add		3				
Results/Page 10 v Sort items by Relevance v In order Descending v Authors/record All v Update		0				
		1				

next >

Results

Feedback Questionnaire on 4 Aspects

Respondents: 8 English Language teachers of SMKCC Kluang

Aspect	Disagree	Somewhat Agree	Agree	Strongly Agree
1. Usefulness	0%	0%	21%	79%
2. Ease of use	0%	9%	56%	35%
3. Ease of learning	0%	0%	25%	75%
4. Satisfaction	0%	0%	6%	94%

SUGGESTIONS FROM USERS:

- ✓ Include other collections of resources
- ✓ Improvement in user interface
- ✓ Published into the Internet



DIGITAL REPOSITORY for the English Language teaching and learning resources in SMKCCK

- replaced the folder system
- used DSpace system to pool resources under different categories
- results in systematically organised resources with structured metadata for easy retrieval
- Ied to better information management of teaching and learning resources

EVALUATION RESULTS indicated all users agreed that this digital repository was useful as it solved the storage and retrieval issues.

RECOMMENDATIONS

- this digital repository to be further improved in future
- this project to be adopted by other subject departments in the school or by other institutions

THANK YOU

Special thanks and appreciation

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