



## E-SOLUTION FOR MINDANAO RESOURCES: AN ONLINE ANNOTATED BIBLIOGRAPHY

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### ABSTRACT

*Mindanao is rich in culture and its natural resources, but little is known about it. Providing available resources online is one way of learning about this beautiful island. This study was undertaken to identify the available Mindanao resources and to make an annotation of the collected local resources through the use of Librarika. Furthermore, the bibliographic information of the Mindanao resources becomes accessible and retrievable, thus, making the list of an online annotated bibliography available in the different libraries in Mindanao. This project study aimed to design an E-Solution for Mindanao resources online annotated bibliography. Using quantitative and qualitative descriptive design, test and evaluation of the functionality and aesthetic design of the “E-Solution for Mindanao Resources: An Online Annotated Bibliography” was developed. E-Solution for Mindanao resources project helps the users to easily access the availability of online annotated bibliography of Mindanao resources because of its eight functional tabs namely; home, catalog, search catalog, database A-Z, top collections, new collections, my account and ask a librarian. Results showed that E-Solution for Mindanao Resources: An Online Annotated Bibliography is functional and competitive in its aesthetic design. It is recommended that this E-Solution for Mindanao resources project be visible and accessible online and be continually updated by the researcher regarding developments in Mindanao resources and annotated bibliography.*

**KEYWORDS:** *Mindanao Resources, Online Annotated Bibliography, Librarika, E-Solution for Mindanao resources*

### INTRODUCTION

Every society makes provisions for the transmission of its cultural heritage to incoming generations. In fact, history is a very significant topic that could help transmit our cultural heritage including our local history and this must be given attention to by the people in general. History is not only for the historians, historiographers, researchers, people in the academe teaching history subject and for all people in the community.

Mindanao, with a number of cities to its name, is the second largest island in the Philippines. It is a place rich in traditions, cultures and beliefs. There are a lot of resources both print and non-print about the local history in Mindanao. Additionally, Mindanao is known as the land of promise because of its rich biodiversity and natural resources. The land holds an incredible wealth from nature, but also has dark moments of truth (Muslim & Cagoco-Guiam, 1999).

There has been a vast number of people lacking interests and understanding on local history, especially in Mindanao (Funtecha, 2008, Mignolo, 2012). This may have been brought about by inadequate background in history; less conscious of the value of the past to their present life and such ignorance or apathy may have resulted from the dearth of local materials, especially on local history which is closer to the hearts and minds of the Mindanaoans.

Mindanao is a safe place to stay and to visit. There is that kind perception Mindanao is associated with violence, but one who stays here longer will realize that it's not true, there are many areas that are quite safe and safer than Manila. In United States, with a positive note, the island's chief city and country's second largest, Davao, ranked the world's fifth safest city last year on crowd-sourcing survey site (Jennings, 2016). Relatively, the Philippines remain safe amid security concerns and travel warnings issued by other countries (Hicken, 2009, Mendez, 2019).

Yet it is the misrepresentation of history by not taking into full account the unique character of the historical and cultural experiences of the various ethnic groups in scattered geographical units of the country especially in Mindanao that gives it a bleak and misunderstood image; thus, affecting the promotional efforts for and of Mindanao. It is in this aspect that an E-Solution for Mindanao Resources which is an online annotated bibliography is seen necessary. To fully understand and have a good representation of the rich collections of the history of Mindanao, the researcher identified, gathered and made the local resources available online with the help of E-Solution for Mindanao Resources project.

It also drove the interest of the researcher to make an annotation of all the local resources in Mindanao since there is no available



annotated bibliography in this locality for easy access by any researcher and no related study conducted in this locality. Gathering of online annotated bibliography of local resources is very essential in Mindanao because it serves as a backbone of the national history and basis of the people living in the locality to understand and to appreciate their past which is essential in the future development. Through the E-Solution for Mindanao Resources project, the bibliographic information of the Mindanao resources becomes accessible and retrievable thus making the online annotated bibliography available in the different libraries in Mindanao and other libraries of the country.

This study drove the interest of the researcher to identify the available Mindanao resources and to make an annotation of the collected local resources. Gathering and making annotated bibliography of Mindanao resources available online provides a concrete source of significant information about its history thereby enabling its promotion.

## THEORETICAL FRAMEWORK

This project study was anchored on McLuhan's Technological Determinism model which seeks to explain social and historical phenomena in terms of one principal or determining factor (Chandler, 1995; de La Cruz Paragas & Lin, 2016). An author noted that this model is indicating that technology doesn't always work out the way it was planned. Therefore, we have a professional responsibility to ensure its long term and downstream effects towards our society, culture and environment (Merkel, 2000).

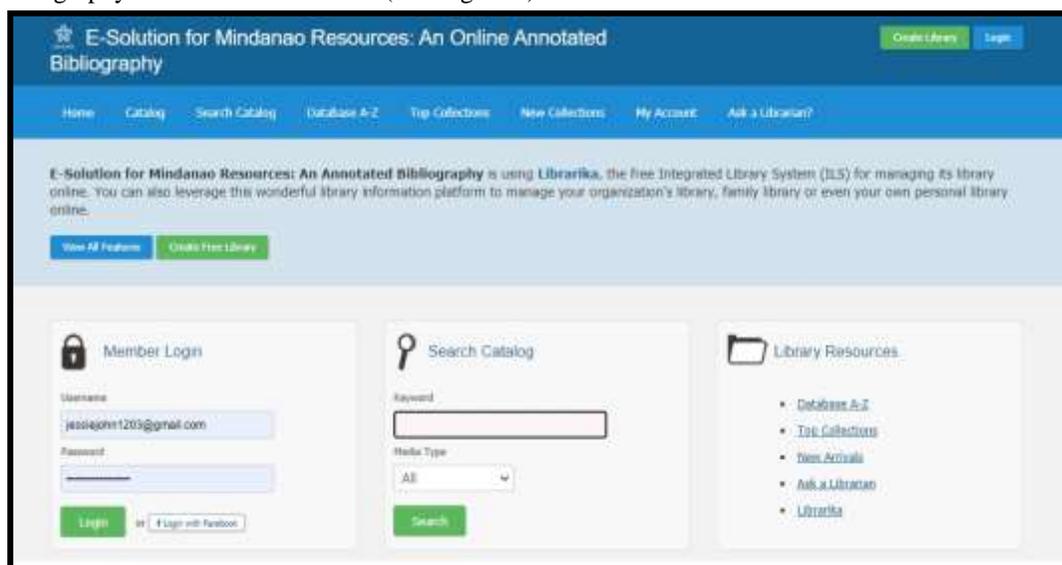
Technological determinism is used to describe a set of claims made about the relationship between what we generally call technology and society. Two meanings have come into use: (1) an internal, technical logic determines the design of technological artifacts and systems; and (2) the development of technological artifacts and systems determines broad social changes (Kline, 2001).

Moreover, it understood more productively as referring to claims that place a greater emphasis on the autonomous and social-shaping tendencies of technology, technological determinism is a valuable and prominent perspective (Dafoe, 2015 & Dotson, 2015). In addition, technological determinism assumes that a society's technology determines the development of its social structure and cultural values (Chandler, 1995) in which it clearly reinforce as a theory for this study on the use of E-Solution for Mindanao Resources. This is a more realistic propagation of Mindanao Island as a land of promise which can further change the stereotyping mindset and values of misinformed people through utilizing technology in one of the functions in the society.

## CONCEPTUAL AND TECHNICAL DESCRIPTION OF THE PROJECT

This project base study adapted the open-source integrated library system called Librarika. Librarika is a cooperatively developed, web-based, and open-source program. It is a system that provides access to the source code, meaning that users are free to see how the system is made. This integrated library system is free for all up to 2,000 titles/records of any local resources. Librarika is an open-source integrated library system that provides easy access and retrieval of bibliographic information and online annotated bibliography of local resources in Mindanao. In this study, the researcher gathered all printed local books about Mindanao, prepared the bibliographic information, the annotations of all the Mindanao resources gathered and encoded them in an integrated library system.

E-Solution for Mindanao Resources: An Online Annotated Bibliography project would be useful to the potential users such as students, historians, librarians, teachers, researchers and others. Librarika helps the users to easily access it to be aware of the availability of online annotated bibliography of Mindanao resources (See Figure 1).



**Figure 1: Platform of E-Solution for Mindanao Resources**



Librarika consists of eight different tabs and these are: home, catalog, search catalog, database A-Z, top collections, new collections, my account and ask a librarian. The following are the tabs of the Librarika with the technical descriptions of the project:

1. **Home Page of E-Solution for Mindanao Resources.** This is the home page of the E-Solution for Mindanao Resources project. It consists of different tabs like home, catalog, search catalog, database A-Z, top collections, new collections, my account and ask a librarian. In the lower part of the home page, you can access the member login area, the search catalog and the library resources. (See Figure 2)

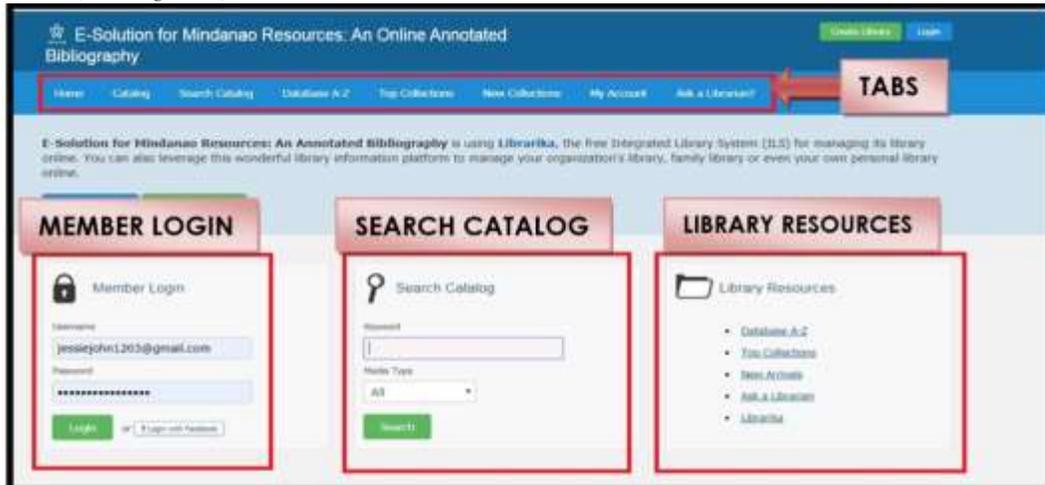


Figure 2: Home Page of E-Solution for Mindanao Resources

2. **Catalog Tab.** This is the appearance of the catalog tab. Catalog tab provides you with the newly cataloged Mindanao resources. It gives you the bibliographic information such as the title of the book, authors/editors, publisher, type and copies. It also consists of sub tabs such as search catalog, categories, authors, publishers and tags. (See Figure 3)

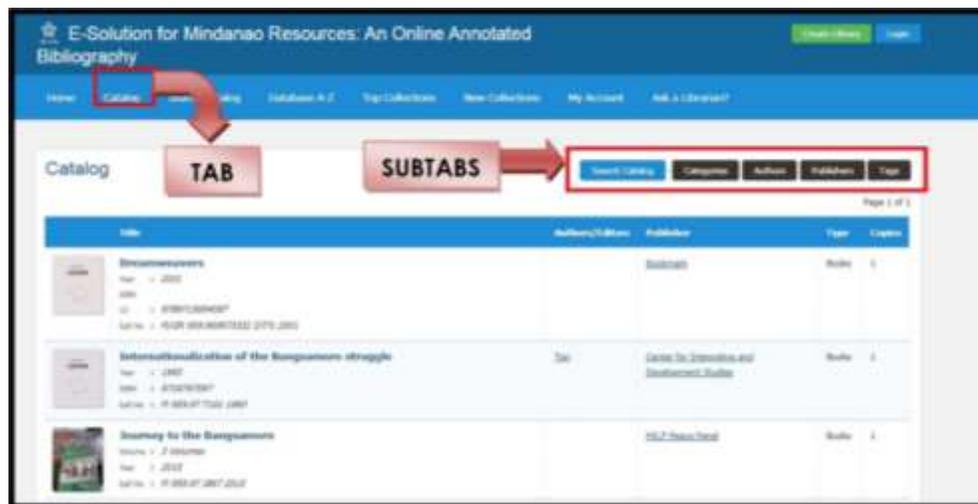


Figure 3: Catalog Tab

3. **Search Catalog Tab.** This is the appearance of the search catalog tab. This tab helps you in searching exact Mindanao resources. All you need to do is to type the correct title of the book; the author, the publisher, etc. You can also choose to extract your search in the search options such as media ID, title, ISBN, ISSN, authors, call number, publisher, tags, category, subject, abstract, and description. (See Figure 4)



Figure 4: Search Catalog Tab

4. **Database A-Z Tab.** This is the appearance of the database A-Z tab. This tab helps in searching for the exact title of the local resources. It is arranged according to the first letter of the book title. All you need to do is to click the letter from A-Z or click the number from 0-9 that represents the title of the Mindanao resources. If you like letter “M”, it gives you all the titles that start with letter M. (See Figure 5 & 6)



Figure 5: Database A-Z Tab

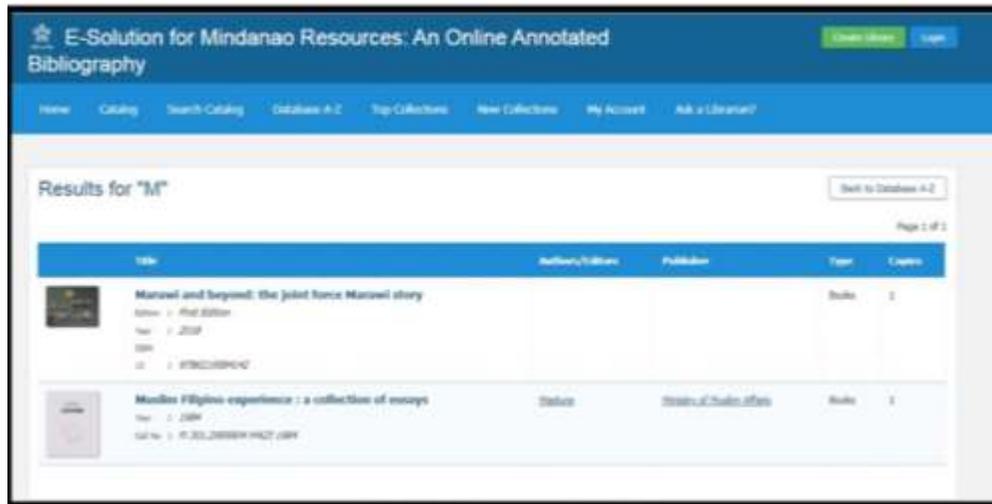


Figure 6: Clicking Letter “M”

5. **Top Collections Tab.** This tab gives you the most searchable Mindanao resources. The system automatically arranges the top collections of your library. It gives you the bibliographic information of the resources such as the title of the book, authors/editors, publisher, types and copies. (See Figure 7)

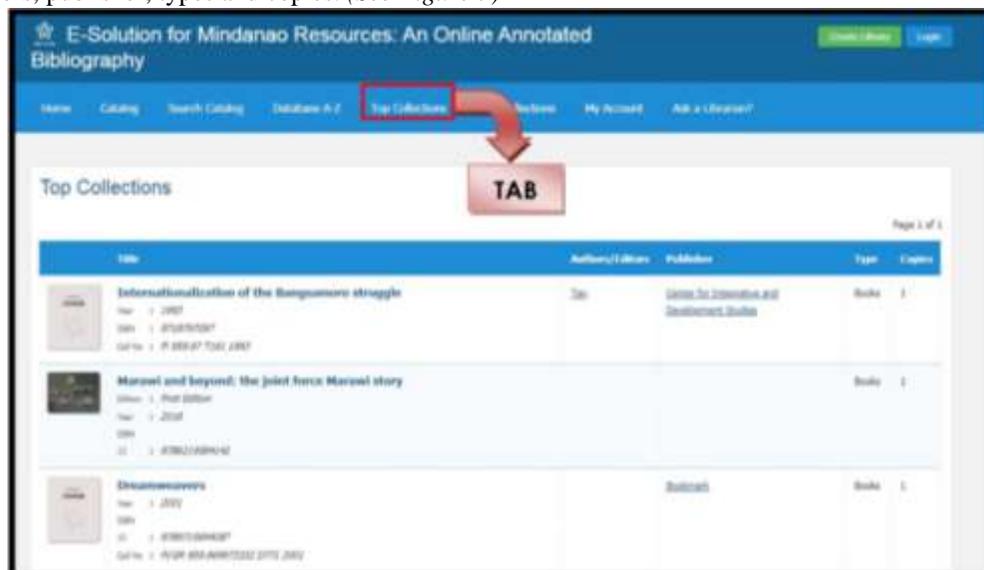


Figure 7: Top Collection Tab

6. **New Collections Tab.** This tab gives you the newly cataloged resources or new collections of your library. The system automatically arranges the newly cataloged resources or new local resources encoded in the library system. It also gives you the bibliographic information of the resources such as the title of the book, authors/editors, publisher, types and copies. (See Figure 8)

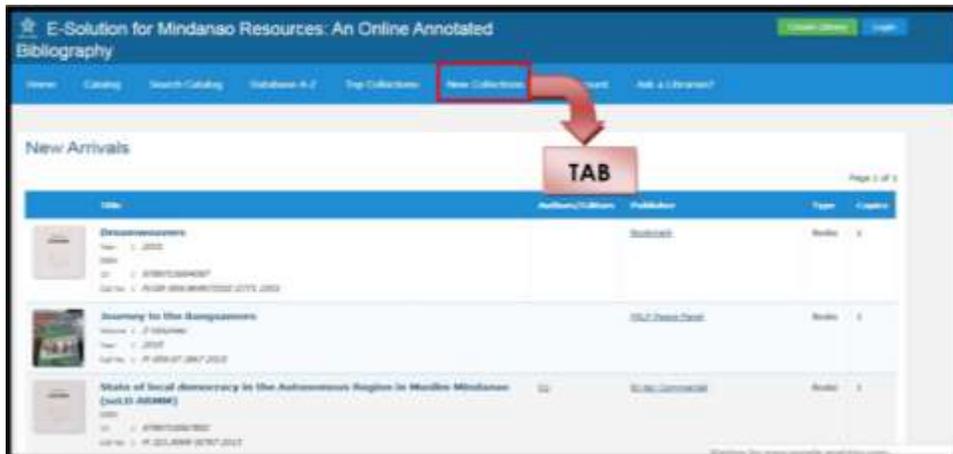


Figure 7: Top Collections Tab

7. **My Account Tab.** This tab gives you the details of your Librarika account. You need to type your username, password and then login. (See Figure 9)

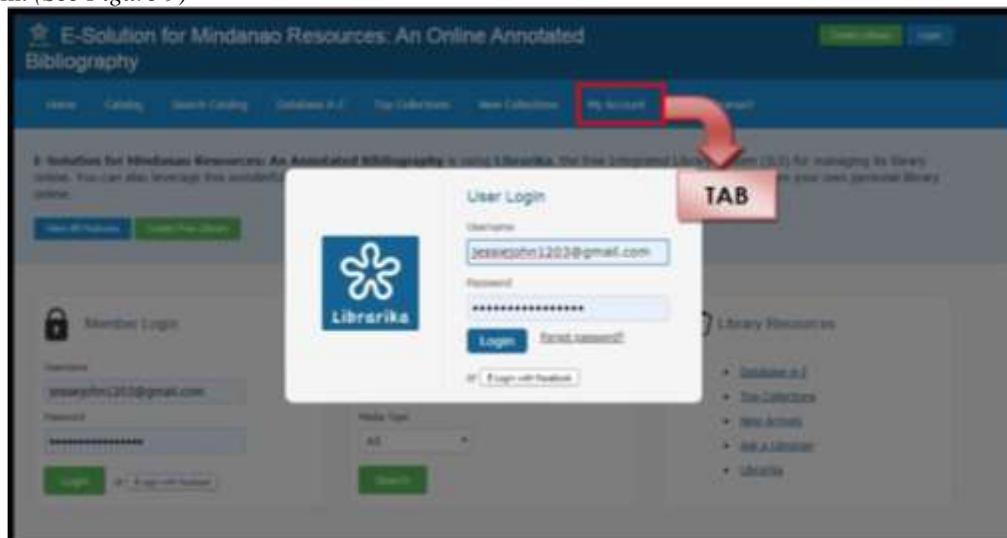


Figure 8: New Collections Tab

8. **Ask a Librarian Tab.** This tab gives the information about the librarian who created the library. It provides you with the e-mail address, the phone number and the website. (See Figure 10)

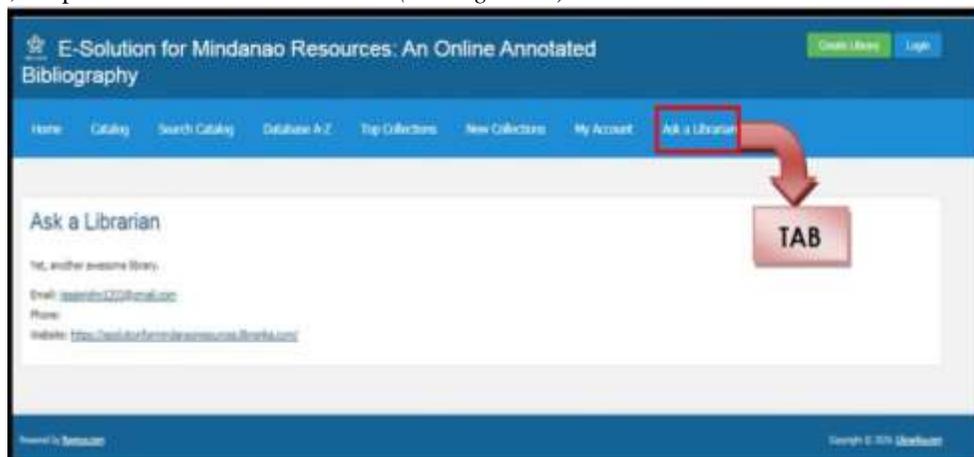


Figure 10: Ask a Librarian Tab



### Objectives of the Project

The purpose of the project study was to design an E-Solution for Mindanao Resources: An Online Annotated Bibliography. Specifically, it sought to address the following: (1) create an Annotated Bibliography of Mindanao Local Resources and (2) make the annotated bibliography accessible online to promote the local resources in Mindanao.

### TEST AND EVALUATION OF THE PROJECT

This section presents the purpose of test and evaluation of the project, the method of test and evaluation, respondents/participants, research instruments, data gathering procedure, and the results of the tested and evaluated E-Solution for Mindanao Resources: An Online Annotated Bibliography.

#### Purpose of the Test and Evaluation of the Project (Functionality and Aesthetic Design)

The purpose of the test and evaluation was to determine the desired functionality and aesthetic design of the E-Solution for Mindanao Resources project. Specifically, it sought answers to the following questions: (1) Does it make annotated bibliography of Mindanao resources available? and (2) Does it make the annotated bibliography accessible online to promote Mindanao?

#### The Method of Test and Evaluation

As a project study, E-Solution for Mindanao Resources: An Online Annotated Bibliography employed development research design where its product-development process is analyzed and described, and where the final output is evaluated. For the purpose of testing and evaluating the functionality of the present project, this development research employed descriptive research design which can be both quantitative and qualitative.

#### Respondents/Participants of the Development Study

The respondents/participants of the study were the selected librarians, library staff, faculty and library science students of Mindanao regions through the use of Google form. There were 60 respondents from different regions in Mindanao (three from Region IX; three from Region X; nine from Region XI; forty-one from Region XII; two from Region XIII and two from BARMM).

They were chosen as respondents/participants of the study through purposive and convenient sampling technique. Purposive sampling technique was used to get the participants who can appropriately give information on the observable facts of the E-Solution for Mindanao Resources project. In the same manner, convenient sampling technique was also employed since the participants are easily gathered through the use of social media like Facebook, for quantitative and qualitative evaluations for the E-Solution for Mindanao Resources project.

#### Research Instruments

A quantitative survey questionnaire validated by experts in the field of librarianship was used to test and evaluate the functionality and the aesthetic design of E-Solution for Mindanao Resources project. The questionnaire also provided a space for the participants' qualitative data of evaluation. The rating scale below was used to interpret the quantitative data in testing and evaluating the functionality of the E-Solution for Mindanao Resources project.

Range	Description	Descriptive Interpretation
4.20 – 5.00	Strongly Agree	Highly Functional
3.40 – 4.19	Agree	Functional
2.60 – 3.39	Undecided	Moderately Functional
1.80 – 2.59	Disagree	Slightly Functional
1.00 – 1.79	Strongly Disagree	Not Functional

In the same manner, the following rating scale was used for the quantitative interpretation of the data in testing and evaluating the aesthetic design of the E-Solution for Mindanao Resources project.

Range	Description	Descriptive Interpretation
4.20 – 5.00	Strongly Agree	Highly Competitive
3.40 – 4.19	Agree	Competitive
2.60 – 3.39	Undecided	Moderately Competitive
1.80 – 2.59	Disagree	Slightly Competitive
1.00 – 1.79	Strongly Disagree	Not Competitive



Meanwhile, the qualitative data gathered in testing and evaluating the functionality and the aesthetic design of the E-Solution for Mindanao Resources project, the following method of the suggested by Tudy and Gauran-Tudy (2020), which was patterned from the method by Colaizzi (1978).

Significant Statements of the Participants	Participant's Code	Formulated Meanings	Recurring Themes
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### Data Analysis and Interpretation

This section deals with the analysis and interpretation of the data gathered for the project developmental study. Analysis and interpretation are presented according to the test and evaluation of functionality and aesthetic design of the project. This project developmental study employed survey questionnaires to gather quantitative and qualitative data for analysis and interpretations. The researcher analyzed the quantitative data by using the mean score whereas thematic analysis was employed to interpret the qualitative data.

On one hand, the presentation on the functionality of the E-Solution for Mindanao Resources project covers the following questions: Is the platform of E-Solution for Mindanao Resources project user friendly?; Is the information displayed in the E-Solution for Mindanao Resources project useful and adequate?; Is the Annotated Bibliography of the Mindanao resources accessible online?; Is the location of the Mindanao Resources indicated in the E-Solution for Mindanao Resources project?; and Is the E-Solution for Mindanao Resources project useful in promoting Mindanao?

On the other hand, the presentation on the aesthetic Design of the E-Solution for Mindanao Resources project covers the following aspects: the font size of E-Solution for Mindanao Resources project is easy to read, the colour and design used of E-Solution for Mindanao Resources project are appealing, the platform of E-Solution for Mindanao Resources project is aesthetically designed, the arrangement of E-Solution for Mindanao Resources project is logical and neatly grouped in the home page, the harmony among the colours, text, links and background catch attention and encourage users to continue library activity using the project.

### The Quantitative Presentation of Functionality and Aesthetic Design of the Project

Displayed in Table 3 and 4 are the quantitative data pertaining to the functionality and aesthetic design of the E-Solution for Mindanao Resources project based on the test and evaluation of the respondents.

Table 3 shows the ratings of the sixty (60) respondents on the functionality of the E-Solution for Mindanao Resources project. Respondents' rating revealed that the E-Solution for Mindanao Resources project is highly functional with the mean score of 4.55.

**Table 3. Level of the Functionality of the Project**

	N	Mean	Std. Dev	Descriptive Rating
FPQ1. The platform of E-Solution for Mindanao Resources project is user friendly.	60	4.50	.597	Highly Functional
FPQ2. The information displayed in the E-Solution for Mindanao Resources project is useful and adequate.	60	4.53	.536	Highly Functional
FPQ3. The Annotated Bibliography of the Mindanao resources is accessible online.	60	4.48	.596	Highly Functional
FPQ4. The location of the Mindanao Resources is indicated in the E-Solution for Mindanao Resources project.	60	4.57	.532	Highly Functional
FPQ5. The E-Solution for Mindanao Resources project is a useful project in promoting Mindanao.	60	4.68	.537	Highly Functional
<b>Total</b>	<b>60</b>	<b>4.55</b>	<b>.559</b>	<b>Highly Functional</b>

Meanwhile, Table 4 shows the ratings of the sixty (60) respondents on the aesthetic design of the E-Solution for Mindanao Resources project. As shown, the E-Solution for Mindanao Resources project got a mean score of 4.35 which means a high level of competitiveness in aesthetic design.

**Table 4. Level of the Aesthetic Design of the Project**

	N	Mean	Std. Dev	Descriptive Rating
APQ1 The font size of E-Solution for Mindanao Resources project is easy to read.	60	4.45	.565	Highly Competitive
APQ2 The color and design used of E-Solution for Mindanao Resources project are appealing.	60	4.33	.681	Highly Competitive
APQ3 The platform of E-Solution for Mindanao Resources project is aesthetically designed.	60	4.32	.624	Highly Competitive
APQ4 The arrangement of E-Solution for Mindanao Resources project is nice and neatly grouped.	60	4.37	.551	Highly Competitive
APQ5 In the home page, the harmony among the colors, text, links and background catch your attention and encourage you to continue searching in the project.	60	4.28	.666	Highly Competitive
<b>Total</b>	<b>60</b>	<b>4.35</b>	<b>.618</b>	<b>Highly Competitive</b>

Based on the survey result, respondents consider the E-Solution for Mindanao Resources: An Online Annotated Bibliography project as highly functional and aesthetically highly competitive.

#### The Qualitative Presentation of Functionality and Aesthetic Design of the Project

Displayed in Table 5 are the thematically analyzed qualitative data pertaining to the functionality and aesthetic design of the E-Solution for Mindanao Resources: An Online Annotated Bibliography the comments of the respondents from the survey questionnaire. Results of the thematic analysis revealed two (2) main themes, namely: the functionality of the E-Solution for Mindanao Resources: An Online Annotated Bibliography and the aesthetic design of the E-Solution for Mindanao Resources: An Online Annotated Bibliography.

**Table 5. The Qualitative Data on the Functionality and Aesthetic Design of the E-Solution for Mindanao Resources: An Online Annotated Bibliography According to the Respondents**

Significant Statements of the Participants	Participant's Code	Formulated Meanings	Recurring Themes
<ul style="list-style-type: none"> <li>It is useful for those researchers if the research pertains to the people and places in Mindanao.</li> <li>Very useful</li> <li>I will try to use this ILS for our city Library.</li> <li>Very effective by using it. It directs the user to the most particular information</li> <li>The E-Solution for Mindanao Resources is also good mapping of local knowledge available in Mindanao Libraries</li> <li>First of its kind in Mindanao. This is a very good project. Hope it will be beneficial for researchers in not only in Mindanao but also Nationwide.</li> <li>Useful and nice platform to access Mindanao related collections.</li> </ul>	R12, R14,R19, R20, R23, R26, R31, R32, R35	Most of the respondents said that this E-Solution for Mindanao Resources project is very useful and helpful to the library most especially to those library users and researchers who want to know the Mindanao resources.	Functionality of the Project




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<ul style="list-style-type: none"> <li>• Very useful project</li> <li>• It is helpful to give information in an easy way.</li> <li>• I suggest that the design must have a touch of Mindanao Symbol or brand.</li> </ul>	R23	Since this E-Solution for Mindanao Resources project is a free open source integrated library system, the researcher cannot change and place a Mindanao symbol or brand in the system.	Aesthetic Design of the Project
<ul style="list-style-type: none"> <li>• It is highly recommended.</li> <li>• Simple is better.</li> <li>• It is nice project.</li> </ul>	R7, R12, R20	This E-Solution for Mindanao Resources project is simple, better and aesthetically well designed.	Aesthetic Design of the Project

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### The Functionality of the E-Solution for Mindanao Resources: An Online Annotated Bibliography

One of the common responses of the respondents was on the functionality of the project. First, they said that this project is very useful and helpful to the library most especially to those library users and researchers who want to know the Mindanao resources. Aside from that, they also said that this project is a good tool in promoting Mindanao. It is also helpful for other researcher who wants to be updated with the local resources in Mindanao. In fact, one of the respondents said:

“The E-Solution for Mindanao Resources is also a good mapping tool for local knowledge available in Mindanao Libraries (Librarian from Region XIII)”

(Since this project gathers the Mindanao resources and encodes them in the system with prepared annotated bibliography, it is also a good instrument of mapping local knowledge that is available in different libraries in Mindanao.)

These participants’ evaluations imply that the E-Solution for Mindanao Resources: An Online Annotated Bibliography can really serve the purpose for which it is being made, that is to design an E-Solution for Mindanao Resources: An Online Annotated Bibliography that will create an annotated bibliography of Mindanao local resources and would make the annotated bibliography accessible online to promote Mindanao.

### The Aesthetic Design of the E-Solution for Mindanao Resources: An Online Annotated Bibliography

The project needs improvement, especially in the visually appealing design of the system the participants suggested. However, other participants said that this project is simple, better and aesthetically well designed. Specifically, respondents said:

“It needs to improve the aesthetic design of the project to make it more appealing (Librarian from Region XII)”

“I suggest that the design must have a touch of Mindanao Symbol or brand (Librarian from Region XIII)”

(Since this system is a free open source integrated library system, the researcher cannot change the aesthetic design of the project to make it more appealing and cannot place a Mindanao symbol or brand in the system.)

From these evaluations of the participants, it can be deduced that the project needs improvement in its aesthetic design to become more competitive. This finding relates to Barata & Nevado, (2014); Brondoni, (2015); Whaley’s, (2009) statement that considering the improvement of project’s aesthetic design for competitiveness is very important since design is linked to performance of the project and design is connected to highly promising and sustainable innovation.

From these two themes mentioned it can also be gleaned that the E-Solution for Mindanao Resources: An Online Annotated Bibliography is useful, helpful and can really serve the purpose for which it is being made. However, its aesthetic design needs improvement to become more competitive.

## CONCLUSIONS AND RECOMMENDATIONS

The conclusions were formulated from the findings of the developmental study and the recommendations were made to help improve the E-Solution for Mindanao Resources: An Online Annotated Bibliography project.

### Conclusion

Results of the test and evaluation made by the respondents confirmed that E-Solution for Mindanao Resources: An Online Annotated Bibliography is functional and competitive in its aesthetic design that can address: (1) making annotated bibliography of Mindanao resources available and (2) making the annotated bibliography accessible online to promote Mindanao.

Moreover, the results of the test and evaluation made by the respondents suggested enhancement of the E-Solution for Mindanao Resources: An Online Annotated Bibliography for public acceptability. Based on the qualitative responses, the respondents



observed that the project is less presentable to the public when it is displayed.

Lastly, as indicated in the test and evaluation of the E-Solution for Mindanao Resources: An Online Annotated Bibliography, it is recommended by the librarians in Mindanao that this project is a good tool in locating local resources and in promoting Mindanao. This project is also a good platform for the easy retrieval of the bibliographic records of the Mindanao resources and the list of an online annotated bibliography that is available in the different libraries in Mindanao.

### Recommendations

Taking into account the results of the project developmental study, the following recommendations were made:

- 1) The E-Solution for Mindanao Resources project must be visible and accessible online by the librarians, library staff, faculty, library science students and others researchers ;
- 2) The E-Solution for Mindanao Resources project must be continually updated by the researcher regarding developments in Mindanao resources and annotated bibliography;
- 3) There is a need to conduct similar researches in the different localities in Mindanao to help increase the local resources and to continuously promote Mindanao and;
- 4) The E-Solution for Mindanao Resources project must be included in the collection of databases in different types of libraries in the local, national and international level.

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