

Application of Technology Acceptance Model on Electronic Book Design of Bandung City History Travel Guide

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Abstract

Historical tourism resources are one of the comparative and comparative advantages of Bandung city over other tourist destinations in Indonesia. The unique characteristic of historical tourism is that the power of narratives poses a broader need for means of interpretation in the form of travel guides. By applying the Technology Acceptance Model (TAM), this applied research reveals the process of designing electronic guidebooks that can aim to be used for the interpretation of historical tourism visitors in The City of Bandung. The design method with a descriptive writing pattern is used to produce research reports on the design of electronic guidebook products in Bandung. This applied study has gathered opinions from 132 respondents through questionnaires about the components of travel guidebooks following the Technology Acceptance Model (TAM) concept, which is then analyzed descriptively. This applied research has resulted in a travel guidebook product and an understanding that tourists require accessible travel guidebooks to use and value for themselves.

Keywords: applied research; design; travel guide; historical tours; Technology Acceptance Model.

A. INTRODUCTION

The country of Indonesia has a region with a wealth of culture and history, where major cities in Indonesia, such as Jakarta, Semarang, Surabaya, Bandung, and Makassar, have a fascinating historical journey of more than two hundred years (Katika et al., 2017). In terms of tourism, history becomes a creative means that can provide aesthetic pleasure from literary works to historical relics, which are then used as intellectual tourism and imagination without the boundaries of space and time (Kastolani, 2016; Khanom et al., 2019; Leppäkari et al., 2017). Historical tourism is categorized as special interest tourism, referring to activities with an orientation on particular aspects and interests, namely places related to people or historical events (Shinde, 2020; Varfolomeyev, 2015). Historical tourism is one of the oldest and most widespread forms of tourism; at this time, it has become a buzzword in tourism and research. Historical tourism involves some heritage from the past cherished and still preserved today (Timothy, 2017). The United Nations World Tourism Organization (UNWTO) recorded in 2005 that tourist visits to cultural and historical heritage objects to become one of the fastest-growing tourist activities (Fathoni, 2017).

Historical tourism potential is an important asset to be developed by every tourist destination to get benefits for the destinations (Adi, 2017; Katsoni et al., 2017). Tourist destinations require the support of four components of tourism or known as "Four A," namely attraction, accessibility, amenity, and ancillary services (Cooper, C., Fletcher, 2005; Prideaux & Cooper, 2009). Attraction can be a beauty, uniqueness of nature, culture, historical relics, or attractions of entertainment facilities. Accessibility or accessibility is a means or infrastructure to get to a destination, such as transportation. Amenity or amenity in the form of supporting facilities that meet all the needs of tourists during travel, such as lodging or places to eat. Ancillary services are

additional facilities needed by tourists, such as money changers, places of worship, health services, and security services. The better the completeness of a tourist destination, the more tourists' satisfaction will be fulfilled and formed (Alvianna et al., 2020; Rafdinal et al., 2021).

Tourism development has a vital role in deciphering and understanding the complexity of the environment and predicting the phenomena in tourism (Hall, 2019). One of the cities with tourism elements with a history theme is the City of Bandung. There are buildings relics of the historic colonial period in Bandung, which is currently a tourist attraction for visitors (E. Maryani, 2015). Historically, the city of Bandung has been a tourist destination since 1920 for dutch nobles living in Jakarta (Wardhani, 2012); in its development of buildings that have historical value become a substantial capital for the development of historical tourism in the city of Bandung (Danurdara, 2015).

Bandung City historical tourism is currently one of the themes of tourism development initiated by the Bandung City Government, along with culinary tourism and smart tourism (Rafdinal et al., 2021; Susanto et al., 2020). This has received support in the strategic plan 2020-2024 of the Ministry of Tourism, where 16 tourist destinations are developed as heritage destinations, one of which is the City of Bandung. On the other hand, in Bandung City Regulation Number 19 of 2009 Article 8, everyone is obliged to preserve cultural heritage areas and buildings and prevent and overcome damage to cultural heritage areas or buildings (Peraturan Daerah, 2009). Contrary to that, handling of historical buildings has not been carried out optimally. Many buildings of historic value suffer damage to building structures resulting from the transfer of function, and demolition, resulting in physical and intrinsic changes. Several historical buildings in Bandung, such as the Braga area and the Dago area, have changed entirely to destroy the oldest swimming pool in Indonesia, namely the Tjihampelas swimming pool (Putra et al., 2019).

On the other hand, the Bandung City Government faces obstacles to developing the promotion of historical tourism potential marked by the absence of a sound management system (Kastolani, 2016). This is supported by preliminary survey data conducted in 2021, where 77% of respondents stated that the management of historical tourism in the city of Bandung had not been maximized. In addition, based on information from the Bandung City Cultural and Tourism Office in 2021, there is still a need for alternative media interpretation of electronic-based historical tourism. To support the development of historical tourism in the city of Bandung, applied research was conducted on the design of electronic guidebooks that discuss historical tourism in the city of Bandung.

Travel guidebooks have been considered an influential tool in shaping tourists' interest in visiting and remain an essential source for providing information about a tourist destination (Lever et al., 2019). This considers the statement that the availability of practical travel guides can support historical tourism activities to respond to the demands and needs of tourists with special motivations (Adnyani, 2019). The main feature of the guidebook is the marking that creates awareness of tourist attractions. With the travel guidebook, information on tourist attractions with historical values, beauty and uniqueness can be spread so that tourists will have a sense of desire to visit the place (Arief et al., 2021; Beck, 2006; Noor, 2018).

To produce a travel guidebook that suits the needs of tourists, the concept of the Technology Acceptance Model (TAM) is applied, a theory developed to predict the behavior or attitude of user acceptance of information technology. TAM is a development of the Theory of Reasoned (TRA), a theory that assumes that behavior is based on the intention to perform a particular action. (Natalia et al., 2019). The purpose of TAM is to explain the acceptance of technology in general and explain the behavior or attitude of use in a population (Sayekti et al., 2016). Technology Acceptance Model

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(TAM) measures the acceptance rate of technology. TAM measures a perception of ease and usefulness that affects the level of acceptance of a technology (Rimawati et al., 2019).

TAM focuses that an optimal technology product results from the perception of ease of use (perceived ease of use) and usefulness (perceived usefulness) so that it can ultimately affect the behavior of its users (Susanto et al., 2020). Perceived of Ease Use merupakan persepsi kemudahan penggunaan dalam mengukur keyakinan seseorang bahwa teknologi dapat mudah dipahami dan digunakan (Grover et al., 2019). Perceived usefulness is how a person believes that technology will improve job performance, while Perceived Ease of Use is how a person uses technology in work will affect the ease of using information technology systems (Folkinshteyn et al., 2017). The purpose of the TAM concept is to explain the determination of the acceptance of information technology in general, explaining the attitude of use in a technology (Sayekti et al., 2016); in this case, the use of historical travel guides in electronic form.

Applied research to produce historical travel guidebook products in the city of Bandung has not been done much, so it is believed that this research contributes to the provision of historical tourism information media in the city of Bandung. This applied research was set to design an electronic-shaped historical travel guidebook in the City of Bandung based on the above exposure.

B. RESEARCH METHOD

This applied research uses a descriptive-quantitative design approach. To produce products following design objectives, a univariate analysis of technology acceptance model variables is used as a design platform. The research data consists of 1) primary data, obtained from the dissemination of online questionnaires and interviews; 2) secondary data, obtained from literature studies in books, scientific articles and social media. Field observations cannot be made relating to travel restrictions imposed by the Government when this research was conducted. Variable Technology Acceptance Model (TAM) is operationalized as presented in Table 1.

Sub Variable	Indikator	Ukuran
Perceived of Ease Use	Feel Comfortable	Level of completeness of the information
		The comfort level of reading the information in an
		electronic guidebook
		The level of alignment of electronic guidebook
		composition in terms of information, object
		content, and design
	Easy to Use	The ease of accessing guidebooks over the
	-	internet
		The level of ease of accessing guidebooks through
		gadgets
		Ease of downloading guidebooks
	Easy to Understand	The level of ease of understanding the
		information in the guidebook
	Up to date Information	The level of novelty of information
Perceived of Useful	Help Arrange Travel Planning	The level of usefulness of guidebooks to help
		design tourist trips
		The level of usefulness of the guidebook to help
		get information on tourist activities
		The usefulness of guidebooks to help get
		information on tourist attractions, facilities and
		travel routes

Table 1. TAM Variable Operationalization

Sub Variable	Indikator	Ukuran
	Assist in decision making	The level of usefulness of the guidebook in
		determining the choice of tourist attractions
		accommodations and travel routes
Source Modification	ons (Grover et al. 2019: Savekti & Put	arta, 2016; Sukma et al., 2019; Susanto et al., 2020)

C. RESULTS AND ANALYSIS

Pre Design Process

Historical tourism resources in the city of Bandung in the tourism system still have the opportunity to be optimized in terms of interpretation. The onslaught of changes in the shape and function of historic buildings due to the lack of benefits felt by building owners from the economic side provides a loss for the development of historical tourism in the city of Bandung. Another thing, closely related historical tourism with intrinsic values and narratives requires a manageable and accessible means of interpretation. Referring to the concept of TAM, the easier it is to use and use an interpretation technology offered, which will increase the interest of its users. Thus, the media interpretation and good historical tourism information are believed to increase interest in historical tourism activities that lead to increased income for historical tourists, including the owners of historic buildings in the city of Bandung.

To support the Government's efforts in managing historical tourism in the city of Bandung, this study has collected data from the implementation of pre-design questionnaires to 132 respondents with the criteria of having used electronic travel guides (ebooks, e-flyers, maps and internet-based applications) for the past two years. As many as 132 people, the number of respondents obtained by random sampling has met the research sample's criteria (Hair et al., 2018). The number of samples is at least 5-10 times the number of research indicators. The results of the quaternary spread are presented in the following table.

Profil	Fq	%
<u>Gender</u>		
Male	84	64
Female	48	36
<u>Ages</u>		
17-26	119	90,2
27-36	7	5,2
37-46	3	2,3
47-56	2	1,5
>56	1	0,8
Education		
Senior High School	44	33
Diploma	85	64
Post-Graduate	3	3

Table 2. Respondent Profile

Source: primary data, 2021



Figure 1. Travel Guide Content Preferences Source: primary data, 2021

Figure 1 shows that respondents have an opinion of historical travel guides in order of priority should have content regarding tourist attractions, accommodations, accessibility, supporting facilities and tour packages. Furthermore, respondents gave opinions on the types of information prioritized in the travel guide on aspect 4A as presented in Tables 3, 4, 5 and 6.

Indicators	Fq	%		
Price	116	87,90		
Facility	108	81,80		
Activity	125	94,70		
Operating Hour	103	78,00		
Social media, contact person	1	0,80		
Мар	1	0,80		
Source: primary data, 2021				

Table 3. Tourist Attraction Information Preferences

Table 3 shows tourist attractions' information needs, including types of activities, prices, facilities, and operating hours. While in the aspect of contacts and maps occupy the lowest priority.

Indicators	Fq	%
Price	123	93,2
Facility	84	63,6
Contact (phone, website, media social)	87	65,9
Product	115	87,1
Operating Hour	91	68,9
Rules dan regulation	1	0,8
Photos	1	0,8

 Table 4. Accommodation Information Preferences

Source: primary data, 2021

The data in Table 4 shows that respondents give an opinion on aspects of prices and products are the most needed type of information in a travel guide there are aspects of accommodation.

Indicators	Fq	%
Routes	112	84,8
Types of transportation	125	94,7
Location map	50	37,9
Geographical conditions	76	57,6

Indicators	Fq	%
Itinerary	99	75
Weather	1	0,8
Source: prima	ry data, 2021	

In the accessibility aspect, respondents gave a high reference to information about the type of transportation to reach destinations, routes and geographical conditions. At the same time, the weather aspect becomes the type of information with the lowest priority.

Indicators	Fq	%
Place of worship	128	97
Tourist information center	107	81,1
Medical services	113	85,6
Security services	105	79,5
Source: primary	[,] data, 2021	

Table 6 shows the preference of place of worship information to be the highest priority, but other information is chosen almost evenly. This shows that the travel guide needs to proportionally present information about tourism support services to facilitate its activities.

Table 7. TAM Descriptive Statistics

	Mean	Median	Std Dev	Excess Kurtosis	Skewnes s
PEU	4,36	4,86	0,92	4,262	-1,9317
PU	4,05	4,17	0,93	1,886	-1,2085
		So	urce primary d	ata 2021	

Source: primary data, 2021

Based on the analysis of the results of the spread of questionnaires with 13 question items divided into two sub-variables, it is known that respondents gave a robust assessment (mean 4.36 out of a scale of 5) on the need that the travel guide must meet the perceived ease of use aspect. Similarly, in the Perceived aspect of Useful (perception of usefulness), the travel guide should be utilized according to its function, reflected from the mean data at 4.05.

Product Design

By considering the pre-design surveys, it is determined that the design of electronic book products is a historical travel guide in the city of Bandung with general content: 1) how to use electronic guidebooks; 2) in the view of the City of Bandung; 3) the history of the city of Bandung, and 4) health protocols. In terms of content, the guidebook for historical tourism travel is at risk of 4A tourism, namely attraction, accessibility, amenity, and ancillary services related to historical tourism in the city of Bandung, as presented in Table 8.

No.	Component	Indicators	
1.	Attraction	a. description of the history of tourist attractions	
		b. picture	
		c. tourist activities	
		d. tourist attractions	
		e. admission price (HTM)	

Table 8. Content Design

No.	Component		Indicators		
		f.	and barcodes.		
2.	2. Accessibility		access to Bandung City		
		b.	transportation		
		c.	route		
		d.	barcode		
		e.	and itinerary.		
3.	Amenity	a.	Legendary culinary, including descriptions of the history of culinary places,		
			operating hours, pictures and barcodes.		
		b.	Legendary hotel, including a description of hotel history, pictures, facilities, room		
			type, and price to the barcode.		
		c.	souvenir shop, which includes pictures and addresses		
4.	Ancillary a		places of worship that include pictures and addresses		
		b.	security services, which include single emergency calls, names and phone		
			numbers		
		с.	Fire Fighter service, which includes the name and phone number of the Fire		
			Department		
		d.	medical services, which include a list of names, addresses and phone numbers of		
			the Hospital		
			Source: primary data, 2021		

The history travel electronic guidebook will be published in the form of links and barcodes connected to Google Drive and or the website of tourist actors to be accessed for free. Barcodes are also used on each piece of content to connect guidebooks with Google Maps.

There are four colors in the color palette option used in the design of electronic guidebooks. The color is used as supporting elements of an electronic guidebook tailored to readability's historical and technical themes. Colour options are presented in Figure 2.



Figure 2. Color Theme Electronic Book Book Bandung City History Guidebook Source: primary data, 2021

The font types used in this electronic manual are 1) CS Gordon Serif used in writing the title; 2) Alegreya is used for the writing of information; 3) Sensa Brush is used for writing the names of tourist attractions, and 4) Hatton Bold for writing the names of culinary and hotel places. The use of font types used technical readability and aesthetics of electronic guidebooks. The font selection is presented in Figure 3.

Alegreya AaBbCc

Sensa Brush AaBbCc

CS GORDON SERIF AABBCC

Hatton Bold AaBbCc

Figure 3. Font On Electronic Book Bandung City History Travel Guidebook Source: primary data, 2021

1. Book Cover View

There is a photo of the Warenhuis De Vries building on the front cover, a building with Dutch architecture that coincides with Jl. Asia Afrika. The title taken in this historical travel electronic guidebook is "Historia of Parijs Van Java" the title is used because it has its meaning. Historia is used in Greek, which means "history", while Parijs Van Java is the name of Bandung City in the colonial era of the Dutch East Indies; the nickname was made to attract tourists to visit the Dutch East Indies. The meaning of the title used is "History of the City of Bandung", as presented in Figure 4.



Figure 4. Design Product Front Cover Source: primary data, 2021

2. Table of Contents View



Figure 5. Table of Contents View Source: research data, 2021

The design of the table of contents is made with clear and straightforward, similar color tones so that the reader can read all parts of the book, as presented in Figure 5.

3. View of Bandung Section

On the sidelines, there is a photo taken at the Pasteur overpass. The paragraph section describes the city of Bandung at a glance, starting with geographical conditions, average climatic conditions, weather, rainfall, Bandung city layout, and geological conditions in Bandung City.



Figure 6. View of Bandung Section Source: research data, 2021

4. Historical Attractions Section

In this section, there is a description of the history of tourist attractions, activities that tourists can do, the price of admission, available facilities, barcodes as the location of attractions, and equipped with pictures of buildings at this time and pictures of the past.



Figure 7. Tourist Attractions Display Source: research data, 2021

5. Accessibility Section

This section contains thematically arranged travel routes equipped with barcodes to access all existing routes. The next page describes the trip's itinerary equipped with time, tourist attractions, and activities.

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Figure 8. Accessibility View Source: research data, 2021

6. Amenity Section

This section explains the legendary culinary recommendations in the city of Bandung; this page shows a picture, an explanation of the history of the culinary place, operating hours and a barcode as the location of the culinary place.



Figure 9. Amenity View Source: research data, 2021

7. Ancillary Services Section

This section contains additional facilities such as emergency phone numbers and addresses. This page lists the names of security services, fire services and health services.

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Figure 10. Ancillary Services View Source: research data, 2021

Product Evaluation

Products formed as prototypes are then evaluated by capturing opinions from users. This applied research has selected 30 panels that were given questionnaires to measure the perception of aspects of ease of use and usefulness of the Bandung history guidebook. The results of processing data on this product's evaluation are presented in Table 9.

	Mean	Median	Std Dev	Excess Kurtosis	Skewness				
PEU	4,39	4,60	0,59	- 0,86	- 0,39				
PU	4,23	4,00	0,65	- 0,70	- 0,25				
Source: primary data 2021									

Table 9. Post-Design Descriptive Statistical Analysis

Source: primary data, 2021

Table 9 shows that respondents strongly perceived that the product had met the Perceived Ease of Use with a mean of 4.39 out of 5. Skewness at -0.86 indicates that the data distribution was collected more on the right side of the curve; respondents strongly perceived electronic book products and historical tourism in Bandung city as the perceived aspect of valuable obtained data. This shows that perceived products can provide benefits of use in historical tourism trips in the city of Bandung.

Based on all the above exposures, the Bandung City History Travel Guide Electronic Book product has fulfilled the aspects of the Technology Acceptance Model. The public can widely use it.

D. CONCLUSION

Bandung's historical tourism resources can be optimized by disseminating information and creating interpretation media that are easy to use and technically useful. This can be poured into the form of a historical travel guidebook. This applied research has achieved its goal of producing an electronic book product guide to the history of the city of Bandung.

Based on research data, the design of this electronic book has fulfilled the perceived ease of use and perceived aspects of usefulness according to the Technology Acceptance Model theory. This applied research has limitations: 1) it has not been designed using a foreign language; 2) it has not reached all historical tourism resources in Bandung and 3) it can be developed in a smartphone application. This limitation provides opportunities for other researchers to improve product quality in their contribution to tourism studies.

Products can be accessed on: https://drive.google.com/drive/folders/11M4W5cvtiDwdkH2mOD_NV5iCISNTU3TG

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