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The screenshot shows the ICOBEST 2021 submission portal. The left sidebar contains links for Abstracts, Summary, and Download. The main content area displays the abstract for ABS-14, titled "Implementation of Web Technology for Tourism and Creative Industry Data Collection". The abstract is by Rahma Wahdiniwaty, Eko Budi Setiawan, and Deden A Wahab, from Universitas Komputer Indonesia. The abstract text describes a web-based application for collecting data on creative industries using geolocation technology. The abstract is marked as "Abstract Accepted".

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Abstracts

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Hello, Rahma Wahdiniwaty

[Abstract ID: ABS-14]

Implementation of Web Technology for Tourism and Creative Industry Data Collection

Topic: Management

Rahma Wahdiniwaty, Eko Budi Setiawan, Deden A Wahab

Universitas Komputer Indonesia

The creative industry and tourism are one of the most accessible sectors to improve a region's economy. It is necessary to collect data on the creative industry and tourism to improve both sectors. This research uses a web-based application by utilizing geolocation technology from the google application programming interface. The results obtained are that this web-based application can be used online to collect data on creative and tourism industries up to the latitude and longitude coordinates data stored in the database. The data used comes from the Bandung Raya area. The test results obtained a value of 100% of each item. The research results can impact the industrial and tourism sector, especially the stakeholders of related government agencies, so that they can support the acceleration of development, especially in the Bandung Raya area. (Approx 132 words)

Keywords: Tourism, creative industry, web technology, application programming interface

Abstract for ABS-14

Created at 26 November 2020 21:24:17 - Last Updated at -

Status: Abstract Accepted

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Implementation of Web Technology for Tourism and Creative Industry Data Collection

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Abstract. The creative industry and tourism are one of the most accessible sectors to improve a region's economy. It is necessary to collect data on the creative industry and tourism to improve both sectors. This research uses a web-based application by utilizing geolocation technology from the google application programming interface. The results obtained are that this web-based application can be used online to collect data on creative and tourism industries up to the latitude and longitude coordinates data stored in the database. The data used comes from the Bandung Raya area. The test results obtained a value of 100% of each item. The research results can impact the industrial and tourism sector, especially the stakeholders of related government agencies, so that they can support the acceleration of development, especially in the Bandung Raya area.

1. Introduction

The number of tourist destinations needs to be regulated using technology to make it more organized in terms of data. Tourist destinations can increase competitiveness in developing countries [1]. Technology can play an essential role in the tourism destination competitiveness ecosystem [2]. Tourist destination as a tourism product is an integrated unit with other economic products [3]. Destinations are usually focused on growing the number of visitors and their expenses as visitors to a destination [4]. Sometimes different government areas can be a problem when the data collection process of a tourist destination or creative industry. The failure to integrate any data between the creative industry and

Anonymous November 23, 2020

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c. Provide asterisk superscript (*) to one of the superscript numbers to indicate the corresponding author (eq. Nama¹ and Nama^{2*}).

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-In sum, components of the abstract must sequentially contain the goal of the research, method implemented, results of the research, brief discussion, conclusion, and impact of the research.

-It is suggested that you explicitly state the mentioned components above.

-What missing the most in you abstract is the purpose.

-Try to consider using Greater Bandung instead of Bandung Raya.

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dots sectors. This research uses a web-based application by utilizing geolocation technology from the google application programming interface. The results obtained are that this web-based application can be used online to collect data on creative and tourism industries up to the latitude and longitude coordinates data stored in the database. The data used comes from the Bandung Raya area. The test results obtained a value of 100% of each item. The research results can impact the industrial and tourism sector, especially the stakeholders of related government agencies, so that they can support the acceleration of development, especially in the Bandung Raya area.

1. Introduction

The number of tourist destinations needs to be regulated using technology to make it more organized in terms of data. Tourist destinations can increase competitiveness in developing countries [1]. Technology can play an essential role in the tourism destination competitiveness ecosystem [2]. Tourist destination as a tourism product is an integrated unit with other economic products [3]. Destinations are usually focused on growing the number of visitors and their expenses as visitors to a destination [4]. Sometimes different government areas can be a problem when the data collection process of a tourist destination or creative industry. The failure to integrate any data between the creative industry and tourism will hamper the industry's development [5] because, ideally, a tourist spot will have information on the creative industry closest to its location. Creative industry information can make the tourists find products from creative industries that can use as souvenirs [6] near tourism destination. Thus, in addition to increasing tourism sector revenue, SMEs' sector can increase revenues [7].

The accuracy of data related to addresses and coordinate positions of tourist attractions and creative industries is difficult to obtain because it must be obtained directly in the field. That requires a large budget for the process of conducting field surveys. One of the indicators that can be used to measure the quality of useful information is accurate [8], relevance [9], and understandability [10]. Tourism is a dynamic activity that involves many people and enlivens various business fields. Tourism is also one of the leading job creators [11]. Oka Yetti [12] also states that tourism is a conscious human activity that receives services, in turn, to get pleasure and know something. Thus, when conducting tourism activities, they should also know about attractions, infrastructure, and accessibility.

In this research, a web-based application that can be accessed online was built to collect data on the tourism industry and the creative industry in attractions, infrastructure, and accessibility. The area used

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Give brief explanation on the method implemented in your research

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government agencies, especially the industry and tourism sector, in supporting sustainable and tourism area so that they are correctly stored in the database so that in the end, they can support the program to accelerate the development of an area.

2. Research Method

The framework method of this research can be seen in figure 1.

```

graph TD
    A[Determine the main data related to product tourist destination] --> C[Model of Software Development]
    B[Determine the main data related to creative industries] --> C
    C --> D[The final results of the research]
  
```

Figure 1. Stage of research

2.1. Product Tourist Destination and Creative Industries

The basis of tourist destination products consists of destination attractions in attractions, accessibility, and infrastructure. Attractions are the strength of the tourism industry [13]. Attractions are also elements in the environment, which are the primary motivation for tourist visits [14]. Goeldner [15] categorizes attraction into cultural groups, nature, events, recreation, and entertainment.

A destination must have the infrastructure to support visitors to come. Infrastructure relates to the level and quality of facilities and processes required to attract and maintain visits to destinations [16]. Infrastructure is also a component of regional tourism products [17] as well as telecommunications networks, roads [18], accommodation, and supporting facilities [19].

Apart from attractions and infrastructure, in tourist destination products, there is also accessibility. Accessibility includes overall access, capacity, convenience, tourist destination information, ease of combine information with other destinations, and ease of communication.

Anonymous November 23, 2020

Suggestion: add an information saying that the method is divided into two descriptions. The Product and The Software Development to bridge your ideas in the method.

- Is it a field research? You mentioned several areas in your results, indicating some data are regulated in certain period of time in some areas. If you conducted field research, make sure you include the details of your method such as the time frame, date, location, respondents, brand/institution, etc.

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3. Result and Discussion

3.1. Data tourist and creative industries

This research has obtained data from the industry and tourism offices in the Bandung Raya area. It consists of the City of Bandung, Bandung Regency, West Bandung Regency, Cimahi City, and Sumedang Regency. Until this research was conducted, tourism data that had been successfully entered into the database totaled 159 tourist attractions, and there were 69 data on creative industries recorded. However, specifically for industrial data, it can increase along with the independent addition feature by creative industry entrepreneurs into the application.

3.2. Specifications for hardware and software requirements

The hardware devices used when building and testing can be seen in table 1.

Table 1. Hardware and Software Specification

Tipe Perangkat	Spesifikasi
Processor	Intel Pentium Dual Core 2.2 Ghz
Space Hardisk	320 GB
RAM	4 GB
Tipe Perangkat	Spesifikasi
Sistem Operasi	Windows 7 64 bit version
API	Google Cloud
Browser	Google Chrome
XAMPP	Versi 3.2.4
cPanel Version	80.0 (build 23)
Sistem Operasi	Linux
PHP Version	7.3
Apache version	2.4.39
CPU	1 Core Processor

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3.3. System Architecture Design

In this web system, there is one user, namely the administrator. Administrators have to process data used in applications. Administrators also have access to travel report data created by users on the mobile subsystem. This web system architecture will describe how the software interacts with the web subsystem. The system architecture design can be seen in the following figure 2.

```

graph LR
    Admin[Halaman Admin] -- 1 (REQUEST) --> Internet[INTERNET]
    Internet -- 2 --> Server[Server]
    Server -- 3 --> Database[(Database)]
    Database -- 4 --> Server
    Server -- 5 --> Internet
    Internet -- 6 (RESPONSE) --> Admin
  
```

Legend:
 Yellow box: Request data dari web ke server
 Green box: Response data dari server ke web

Figure 2. System Architecture

The flow of the web process is :

1. On the admin (client) page, the administrator makes requests (requests) to the internet network before connecting to the server.
2. Then, the client makes a request (request) through the internet network to the server.
3. The server receives requests (requests) and requests data on the database.
4. Furthermore, the database will serve requests and send replies to requests through the server.
5. The server sends a reply to the request (response) via the internet network.
6. Client (Admin page) receives a reply to a request from the server sent via the internet network.

3.4. Design of System Diagram

An overview of the whole system, both its input-output, can be seen in the diagram model, as shown in figure 3. Users who can use this application system are modeled into two, namely: administrators and

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