

## Web Based Tourism Information System in Bintan Island

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### *Abstract*

The use of the web or website as a medium to promote tourism places is increasingly being used. With the advancement of information technology as it is today, the development and promotion of tourism seems increasingly real. Minahasa Regency is blessed with extraordinary tourism potential, ranging from natural beauty, historical heritage, unique customs in Minahasa to various artistic and cultural attractions that are able to attract tourists both from abroad and within the country. With this Tourism Information System, it can provide a solution to increase the number of tourists visiting Minahasa. The method of implementing a web-based tourism information system in Minahasa Regency uses rapid application development that aims to meet user expectations in a relatively short time and produce a better system quality.

**Keywords**— Information Systems, Web, Tourism

### PRELIMINARY

Currently the development and promotion of tourism is a field that is being intensively promoted by the government. It aims to bring benefits to the government. With the advancement of information technology as it is today, the development and promotion of tourism seems increasingly real. The use of websites as a tool to promote tourism is increasingly being used.

Information system is a system that aims to produce information. The Internet is a global computer network around the world that can provide the information people need, and can be accessed from anywhere. With the advent of the internet, the ease of access to information by individuals and agencies has become very open. With internet access, information about tourism can be easily communicated to tourists. Websites are a very popular part of the internet.

Through the website we can get to know various things about tourism. As is known, Minahasa Regency is blessed with extraordinary tourism potential, ranging from natural beauty, historical heritage, unique customs in Minahasa to various artistic and cultural attractions that are able to attract tourists, both foreign and domestic tourists. The magnitude of this tourism potential is unmatched by efforts to promote tourist attractions, this makes Minahasa Regency less well known by tourists.

### **Information System**

An information system can be defined as a collection of interrelated elements that form a single unit to integrate data, process and store and distribute information. In other words, IS is a unified element that interacts systematically and frequently to create and shape the flow of information that will support decision making and control the running of a company. Information is data that is processed into a form that is more useful and more meaningful to those who receive it. Information is data that has been processed in such a way as to increase the knowledge of the people who use it. Any system without any information will be useless,

because the system will crash and eventually stop. Information can be raw data, structured data, information channel capacity, and so on.

### **Tourism**

Tourism is a trip made by a person within a certain period of time from one place to another with prior planning, the purpose of which is to relax or for the sake of fulfilling his desires. Or tourism can also be interpreted as traveling from one place to another for recreation and then returning to its place of origin.

### **Attraction**

Tourist objects are the embodiment of human creation, way of life, art, culture and history of the country as well as places or natural conditions that have an attraction for tourists to visit. Another definition states that tourist attraction is anything that attracts people to visit an area. From the description above, it can be concluded that what is meant by a tourist attraction is a place that has natural or artificial beauty that makes people interested in visiting it. The role of nature as a natural resource in tourism is very large and important.

### **Website**

Website is often also called the Web, which can be interpreted as a collection of pages that display various types of textual information, data, still or moving images, animation data, sound, video or a combination of all of them, both static and dynamic. form a series of interconnected buildings, each of which is linked by a network of pages or hyperlinks. This website is also a diverse collection various websites, which are summarized in domains or even subdomains, which are located more on the WWW (World Wide Web) which of course is on the Internet. Web pages are usually documents written in the Hyper Text Markup Language (HTML) format, which can be accessed via HTTP. HTTP is a protocol that conveys various information from a web server to be displayed to the user or users through a web browser.

### **HTML**

HTML stands for HyperText Markup Language, which is the standard programming language used to create web pages, which can then be accessed to display various information in an Internet web browser (Browser). HTML can also be used as a link between files on a site or on a computer using localhost, or a link between sites on the internet. The function of HTML is to manage a series of data and information so that a document can be accessed and displayed on the Internet through web services.

### **CSS**

CSS (Cascading Style Sheet) is a web design language (style sheet language) that controls the display format of web pages written using a markup language. Usually CSS was used to design HTML and XHTML pages, but now CSS can be used on all XML documents, including SVG and XUL as well as ANDROID. CSS is created to separate the main content from the appearance of the document which includes layout, colors and fonts. This split can improve the accessibility of content on the web, provide more flexibility and control in the specification of display features, enable page division for formatting and reduce the complexity of writing code and content structure, such as table techniques in web design. CSS also allows pages to be displayed in different styles using different default methods, such as on screen, in print, by voice, and so on. Meanwhile, the web content owner can define a link that links the content to the CSS file. The main purpose of CSS was created to differentiate the content of the document and the appearance of the document, so that the creation or reprogramming of the web will be easier to do. Things that are included in web design include color, size and format. With CSS, content and web design will be easy to distinguish, so it is possible to repeat certain views on the web, making it easier to create multiple web pages, which in turn can reduce web creation time.

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## RAD

Rapid Application Development (RAD) or rapid application development, proposed by Kendall is an object-oriented approach to system development that includes development methods as well as software. Kendall sees RAD as a systems development methodology aimed at addressing changing user requirements and recommends RAD for developing web-based applications. According to Pressman, RAD is a soft process model that emphasizes a short development life cycle. Meanwhile, according to Schach, the fast prototype model is a functional model where several functional applications are already running.

## RESEARCH METHODS

The research procedure is a framework in the form of steps in the implementation of research. The framework used uses the RAD methodological approach which consists of the needs analysis stage, the RAD Design and Build (Modeling) stage, and the Implementation (Construction) stage. The steps that need to be done in this RAD method are as follows:

### Analysis

The results of interviews and observations made with several leaders and the public regarding tourism on Bintan Island, Batam, and several other questions became a reference in this study. Currently there is no website that introduces tourist attractions on Bintan Island other than the official website of the tourism office.

### Modeling

Analysis This stage aims to analyze all activities in the overall system architecture by involving the identification and description of the basic software system abstractions and their relationships. The activities to be carried out are as follows:



Figure 1 RAD Design Method

## RESULTS AND DISCUSSION

Web Interface Implementation The following will explain the display of results for implementation of the web interface, namely as follower:



Home ▾ Destinasi ▾ Sumatra ▾ Pulau Bintan

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## Bintan: Destinasi Wisata Eksotis di Kepulauan Riau

Bintan merupakan destinasi andalan di Kepulauan Riau. Destinasi ini terkenal akan deretan resor mewah, lapangan golf kelas dunia, dan tak ketinggalan, keindahan pasir pantainya yang menakutkan. Nah, bagi Sobat Pesona yang ingin merasakan sensasi petualangan sekaligus hiburan, Bintan adalah opsi yang tepat untuk mendapatkan liburan yang menyenangkan dan mengesankan.

### Keajaiban Pulau Bintan

Belakangan ini, Bintan ramai diperbincangkan sebagai destinasi pariwisata-olahraga kelas dunia. Berbagai jenis perjalanan olahraga pariwisata yang menarik perhatian wisatawan dari seluruh penjuru dunia digelar di sini. Sebut saja beberapa di antaranya, seperti marathon, triathlon, ragam olahraga ekstrem, hingga turnamen golf.

### Menuju Bintan

Jalur Ferry

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### Atraksi Wisata

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3Menyukai ini


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#### Anson Resort Lagoi


Berbeda dengan kolam renang terbesar di Asia Tenggara yaitu Treasure Bay, The Anson Resort adalah opsi tempat menginap terbaik untuk Sobat Pesona. Resor bertaraf internasional di kawasan Lagoi ini menawarkan pengalaman menginap eksklusif dengan fasilitas super mewah yang setara dengan hotel bintang lima, seperti kolam renang, restoran, ruang meeting, bar, dan kelas meeting gratis. Daya tarik resor ini terletak pada desain lamunnya yang unik, yaitu berupa kanal-kanal bermula romantis.

#### Pulau Pantayat



Pulau ini dulunya merupakan pusat kerajinan Mekay, Riau-Lingga. Selama di sini, Sobat Pesona bisa berkunjung ke Istana Sultan yang memiliki perpaduan gaya arsitektur Jawa dan kolonial yang cantik. Landmark lainnya yang terkenal di pulau ini adalah Masjid Agung Sultan Riau. Uniknya, masjid ini dibangun dengan menggunakan campuran paku laut dan arak hitam (paku sebagai kerangka, dan arak sebagai cat).

#### Pantai Tirole



Sekali bagian menuju pantai timur Pulau Bintan, Sobat Pesona akan menemukan sebuah pantai yang luar biasa indahnya, yaitu Pantai Tirole. Pantai Tirole terkenal dengan airnya yang sejernih kristal dan pasir putihnya yang halus, sehingga sering disebut sebagai Pantai Tirole. Tempat ini dijadikan sebagai destinasi snorkeling yang paling terkenal.

#### Desa Senggang dan Sebung

Bagi Sobat Pesona yang ingin menjelajahi kearifan lokal masyarakat setempat, jangan lupa untuk berkunjung ke Desa Senggang dan Sebung. Di Desa Senggang, Sobat Pesona akan merasakan perpaduan budaya dan tradisi nusantara dan Tiongkok yang sangat cantik. Ada juga sebuah kul banyawa Tiongkok yang terkenal yang bisa Sobat Pesona kunjungi selama berada di sini.

Berbeda dengan Desa Senggang, di Desa Sebung, Sobat Pesona akan melihat aktivitas masyarakat di desa ini yang sebagian besar merupakan nelayan. Selain itu, Desa Sebung juga merupakan tempat yang cocok bagi Sobat Pesona yang tengah mencari alam yang indah di Pulau Bintan. Terletak di desa Sungai Sebung, desa ini menyajikan hidangan laut segar di restoran apung, atau sering disebut Kelong. Selain menikmati santapan lezat, mata Sobat Pesona akan dimanjakan dengan pemandangan hutan bakau yang menakutkan.

Figure 2. Home

### Bintan in Moving Frames

Figure 3. Article Pages

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## CONCLUSION

After doing this research, the writer can conclude that:

1. Web-Based Tourism information system in Bintan Island, can provide facilities for the community and for everyone get travel information at Bintan Islands.
2. The system is designed using the method RAD system development method (Rapid Application Development)

## SUGGESTION

After analyzing this system, suggestions are obtained for further technical development of the system, namely: This information system can be developed to be more informative and attractive in terms of appearance for those who will develop it. Adding additional useful features to help the community or anyone else to more easily get information about tourism in Minahasa Regency.

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