CHAPTER 1 . INTRODUCTION

1.1   Background of the Study

At this time, the development of the world of technology has developed very rapidly by bringing about enormous changes because it makes the information obtained available quickly, easily, accurately, and is not limited by place and time. In addition, the existence of technology can make human work done by a person more effective and efficient

One example of such developments in the world of technology is internet technology. With this internet technology, it makes the dissemination of information more practical and easy to access anywhere, anytime, and anyone can access that information. So that this technology has a big impact and influence to be noticed or has an effect on the development of business or trade. With only utilizing internet technology, a person can easily find all the information he needs. Not only that, but internet technology can also save time, place, and money.

Internet technology does not only have an effect on business or trade development but also has a share in the tourism sector. Because with the internet technology, the delivery of information on tourist objects can be more connected or interactive and the information is easy to get.

Along with the development of economic progress and the welfare of the community, so that the desire to take a vacation is increasingly needed information about the destination of interesting tourist objects, as well as means of transportation, and so on. However, visitors or tourists often experience problems and difficulties in obtaining this information. Therefore, information in the tourism sector must be presented properly and systematically so that tourists can easily access this information.

North Sumatra is a province located on the island of Sumatra, bordering Aceh to the north and West Sumatra and Riau to the south. North Sumatra Province is located at 1 ° - 4 ° North Latitude and 98 ° - 100 ° East Longitude, the land area of North Sumatra Province is 72,981.23 km². North Sumatra is known as the province with the largest population, which is ranked fourth as the region with the largest population in Indonesia, with a population of more than 15 million. North Sumatra is also one of the areas that support Indonesia's economic strength. The province's economic activities contributed nearly 5 percent of gross domestic product (GDP) in 2019, the largest in Sumatra Island and number five in Indonesia, after DKI Jakarta, East Java, West Java, and Central Java.

North Sumatra Province is one of the most famous provinces because it has many tourist areas in each of its districts, even to sub-districts in North Sumatra.There are

various tourist attractions in North Sumatra that are interesting to visit, but not all tourists know all t1he tourist attractions in the area. Most tourists just only know that Lake Toba is the most famous tourist spot in North Sumatra.

Many people who want to travel to North Sumatra are still looking for tourist attractions in North Sumatra by using Google. By doing a search on google, will certainly expose people to a lot of information that is not necessarily accurate and incomplete where it will cause a little confusion and make people hesitant in making choices. Therefore, an information system that contains complete and accurate information such as information about the location of the tourist attractions, accommodation such as the nearest hotel, along with the culinary delights around these tourist objects is very much needed by the tourist. In addition, tourists also prefer the display of information systems that are simple, interactive, and interesting to look at.

In response to this situation, the author tries to build a website-based information system to make it easier for users to find out about tourism areas in North Sumatra. This system is also a form of promotion through the internet and computer media. The more tourists who visit, the regional income and the surrounding community will increase, besides that with the web-based information system, tourism objects in North Sumatra will be better known by the wider community and motivate the local government to pay attention to the management of tourist attractions in the area. So based on the above background, the authors are interested in making a final project with the title "Web-Based Application For Tourism In North Sumatra".

The author hopes that the writing of this Final Project can be useful in the future to increase the attractiveness of local and foreign tourists to tourism in North Sumatra, facilitate the search for North Sumatra tourist information, with a simple, interactive, and attractive display that will be easily accessed by users. This application is expected to help provide complete and accurate information according to user needs.

This system is intended for all people who like to travel, these people may not come just from Indonesia. So this application is not only for Indonesian tourists. But also for all tourists around the world who want to travel to North Sumatra.

1.2 Problem Identification

Based on the background, the author can identify problems that faced on the development of this application, as follows:

1. How people can use the application easily without feeling confused?
2. How to create a tourist attraction information system that is easy for tourists to understand and learn as a means of learning before visiting these attractions?
3. What information is contained on the North Sumatra tourism website?

1.3 Purpose of Study

The purposes of this application development are listed as follows:

1. This application is designed to help people who are confused to found tourist attractions in North Sumatra.
2. This application help tourists in getting information about tours attractions, lodging, and culinary delights in North Sumatra.
3. As a promotional media object North Sumatra tourism.

1.4 Limitation of Study

Some limitations of this study are listed as follows:

1. This application is only for Tourist Attractions in North Sumatra.

2. The users are only able to see and search the tourist attractions, the user is not able to upload their own idea about tourist attractions in North Sumatra.

1.5 Benefit of The Study

The benefits of designing this application are listed as follows:

1. This application can help users to show them the tourist attractions in North Sumatra.

2. Increase the author's knowledge about making a web-based tourist attraction information system

3. As a means of promotion/introduction of North Sumatra tourism objects to the outside world or to other regions/provinces in order to develop tourism potential, especially the region.

1.6 Writing Structure

As for the systematical structure, this thesis is divided into five chapters, with an explanation for each chapter as follows:

CHAPTER 1 INTRODUCTION

Chapter one discusses the background of the research, problem identification, purposes of study, limitations of the problem, benefits of the study.

CHAPTER 2 LITERATURE REVIEW

This chapter discusses several theories that support the discussion of the preparation of this final project which consists of the notion of tourism, information systems, databases, and the programming language used.

CHAPTER 3 RESEARCH METHODOLOGY

This section talks about the system utilized in this thesis research. Start from research structure, data assortment or collection methods, and applied conceptual framework.

CHAPTER 4 ANALYSIS AND DESIGN

This section talks about the study and the arrangement or design of the system. Study or analysis of the general information or the present condition, study of the current system, the study of the system needs, and compose the conceptual framework to create new information system.

CHAPTER 5 IMPLEMENTATION AND TESTING

In this section, the author talks about the implementation of the results of the study and the design of the system into coding to make an application that can be used by the users. Besides, it also represents the user interfaces of the system and behaviors testing of the system to determine whether the application is as of now done or still needs an improvement.

CHAPTER 6 SUMMARY AND CONCLUSION

This section contains the conclusions, summary of this thesis and advices those are used as references for future development.

1.7 Schedule

Scheduling will be implemented in this thesis as follows

Table 1.1 Schedule

No	Activities	Weeks										
		1	2	3	4	5	6	7	8	9		
1	Literature review	█	█									
2	Analysis of requirements			█	█							
3	Design				█							
4	Coding					█	█	█	█			
5	Testing					█	█	█	█			
6	Documentation									█	█	█