

CHAPTER IV

ANALYSIS AND DESIGN

4.1 Analysis

4.1.1 Data structure

```
struct pariwisata
{
    char nama[100];
    char alamat[100];
    char fasilitas[100];
    char definisi[10000];

    struct pariwisata *next;
};
```

Struct list is data structure in here. Function struct list to declare name, address, facilities, and definition. And next in struct list next to the linked list .

4.1.2 Hash Table and Linked List

Hash table and linked list is a structure data used in this program. The Linked list stores the data in the list, so that the requested data is not limited.

4.1.3 Flow Chart Diagram Menu

This is a display case to show how the program works. Consisted of reading database from txt file, load the database into a hash table, showing a hash table, and then search for data by name (the name of tourism) or category (Word)

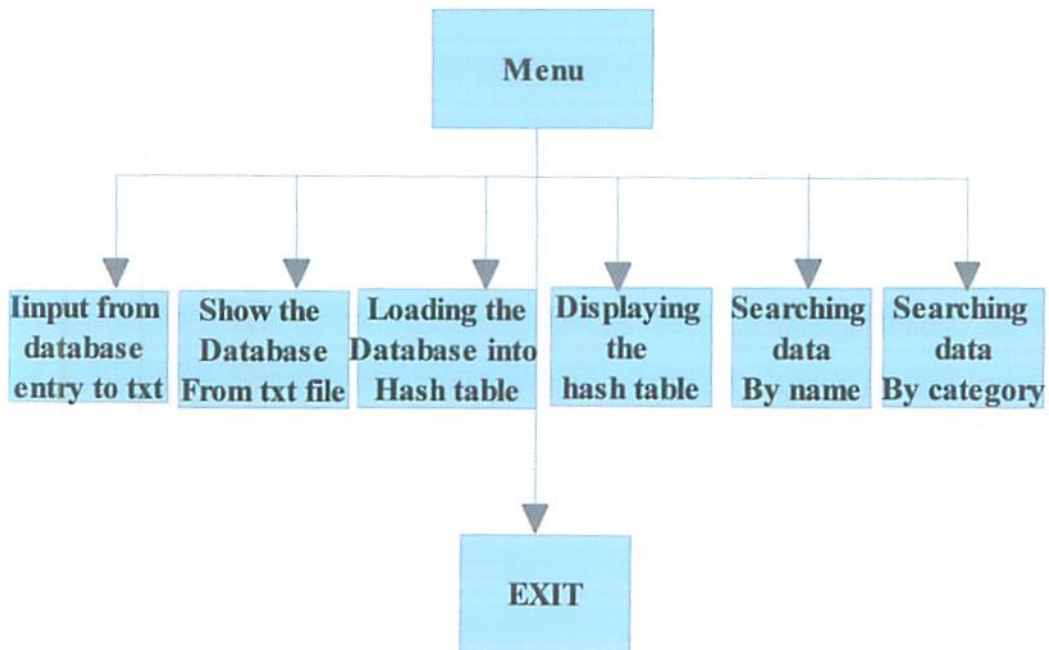


Figure 4.1.3 Diagram Menu

This program performs the menu for the first time after that process route to input data to txt, when input data is already stored in the cookies txt file, the next process that displays data from a txt file then wait for data from the hash table and features the hash table data already in looping. The next process is to search by name when looking for the name of tourism or when want tourism name appeared several data with the same first name with the next process is to search by categories (words) after it is finished.

4.2 Design

4.2.1 Process of Searching by name (name)

After compiling the program, users will first display the menu of the program. Consists of several menu options, the user must select by entering the number on the menu.

Menu number 1 is a menu to enter new data into the database and stored in a txt file.

Menu number 2 is a menu to display the data from txt to the terminal.

The number 3 is a menu to load the database into a hash table, so that all the databases in the txt file will be stored in a hash table.

Menu number 4 is the menu used to locate data process. Users must enter the name of the desired tourism spot, simply by entering your name, the program will look for the value of the same key with name entered by the user by comparing character strings one by one. After all, it's a comparison will show all data by key value.

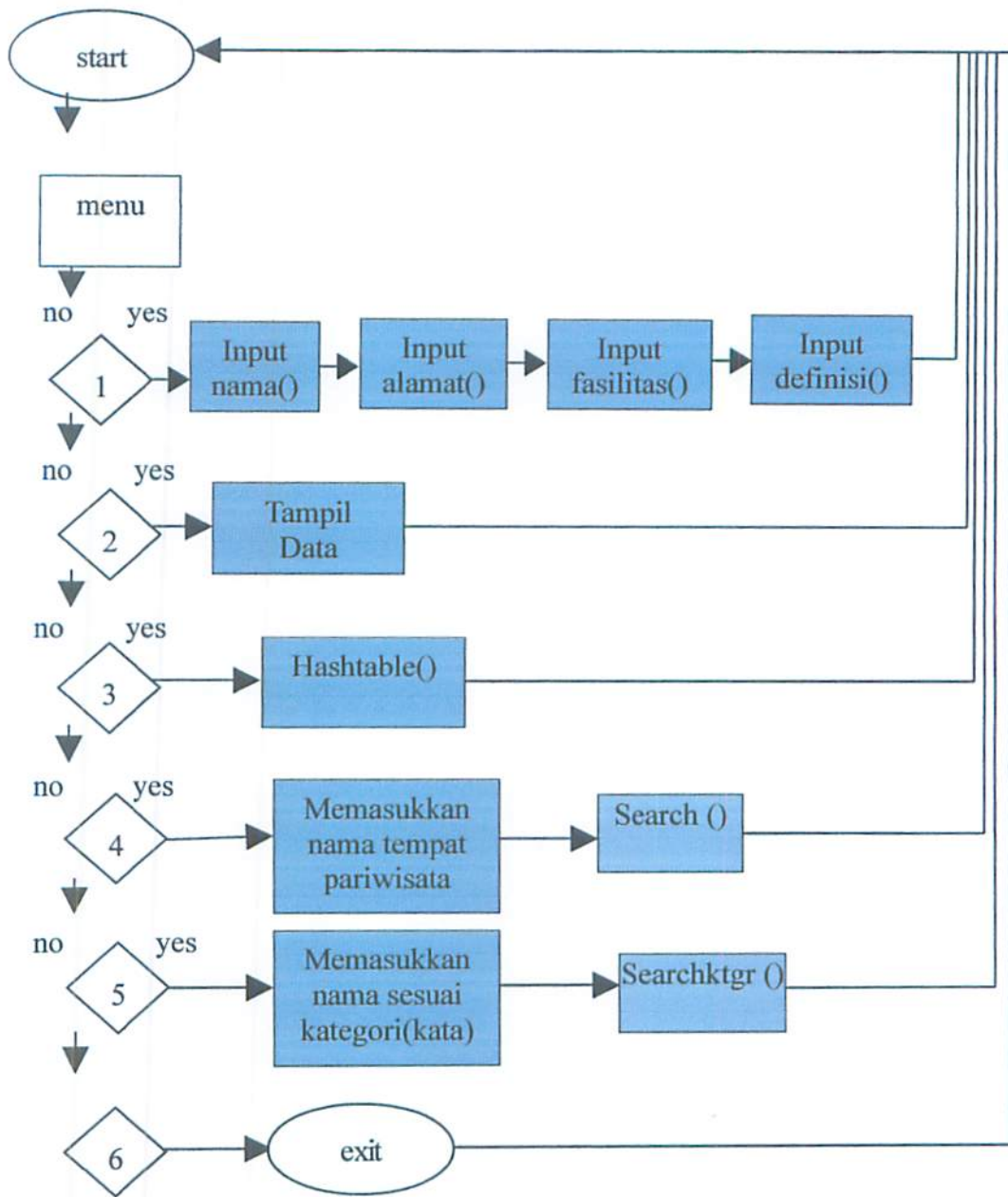


Figure 4.2.1