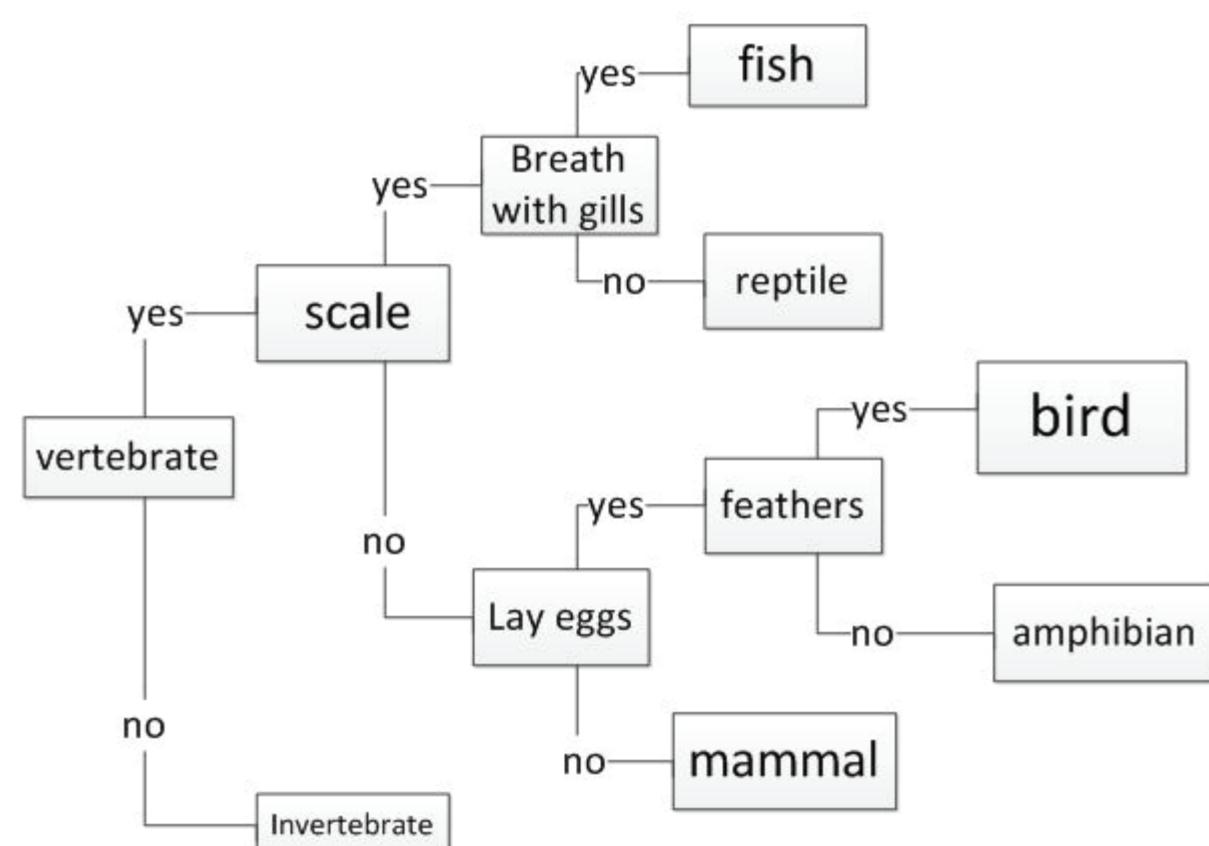


# Decision Support System for Science Module

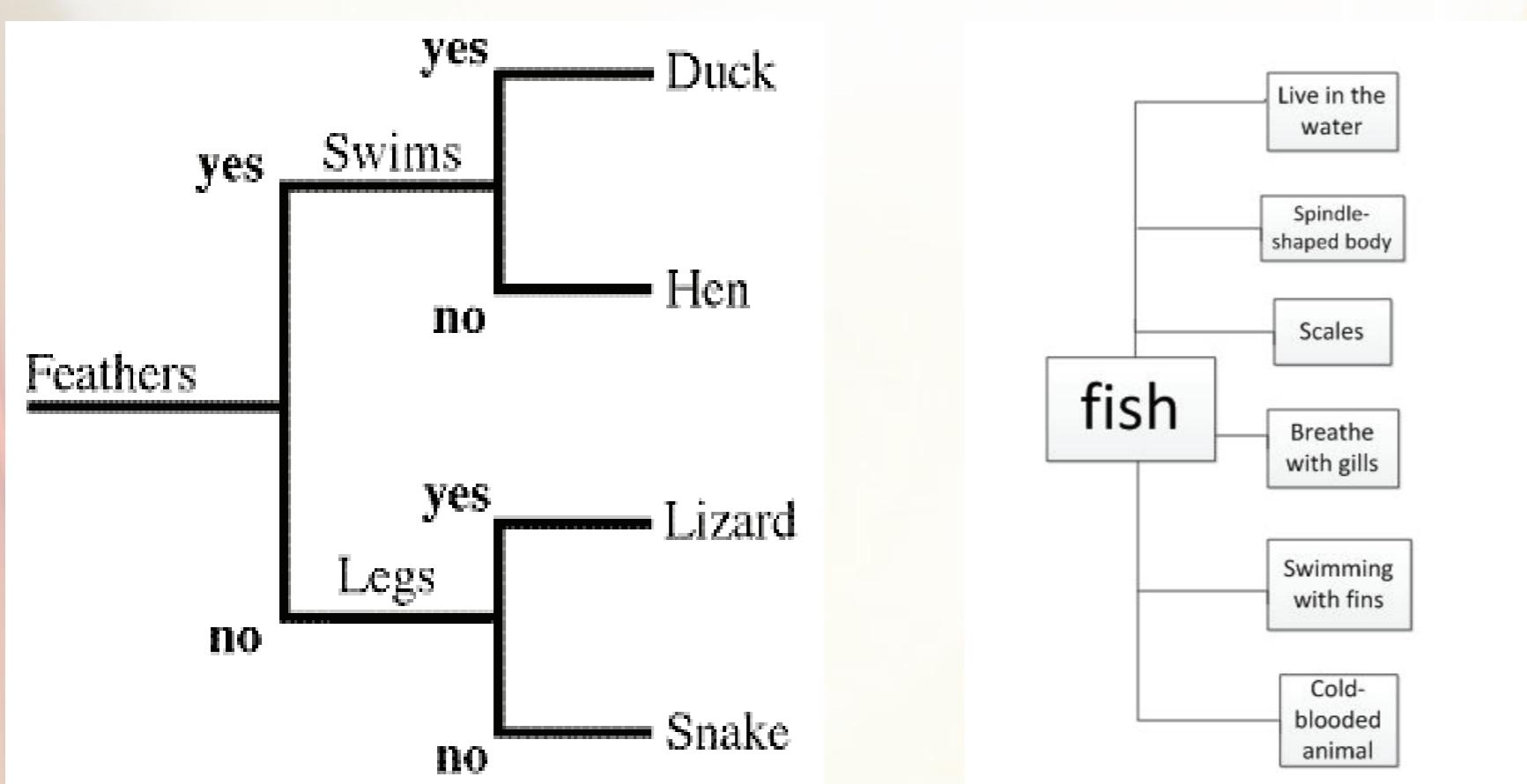
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## Introduction

Works by analysing the outcome using the criteria.  
Serve the management, operations and planning levels of an organization by helping to make decisions.  
Computer-based information system



An example of the DSS at work, identifying animals based on their characteristics.



A simpler DSS diagram

Characteristics of a fish

## Methodology and Development

### 1. Learning the Dichotomous Key.

- May exist as text or pictorial
- Presents the reader with two statements that describe certain characteristics.
- Must be exclusive. For example, "Red" and "Not Red". This is essential for the Key to work efficiently.

### 2. Doing research

- Looking for characteristics of the animals, so as to classify them under different categories.

### 3. Using Microsoft Visual Studio to complete the program.

- People can enter the characteristics of an unknown animal (for example, is there a presence of feathers on its body?)
- The system will determine which part of the species that the animal would be in.

## Results

My ASP.NET APPLICATION

Welcome to ZhongHua S&T programme

Physical appearance:

Vertebrate      Scale      Vertebrate      Legs      Wing

With gills      have hair or fur on the body      with lungs      four-chambered hearts      Teeth imbedded in the jaw bone

Ability:

warm-blooded      can fly      Lay eggs      can live in the water      produce milk      bask in sun to keep warm      young hatched in adult form

Submit

the animal is a reptile.

Different creatures have different features. The result obtained depends on the information entered into the programme.

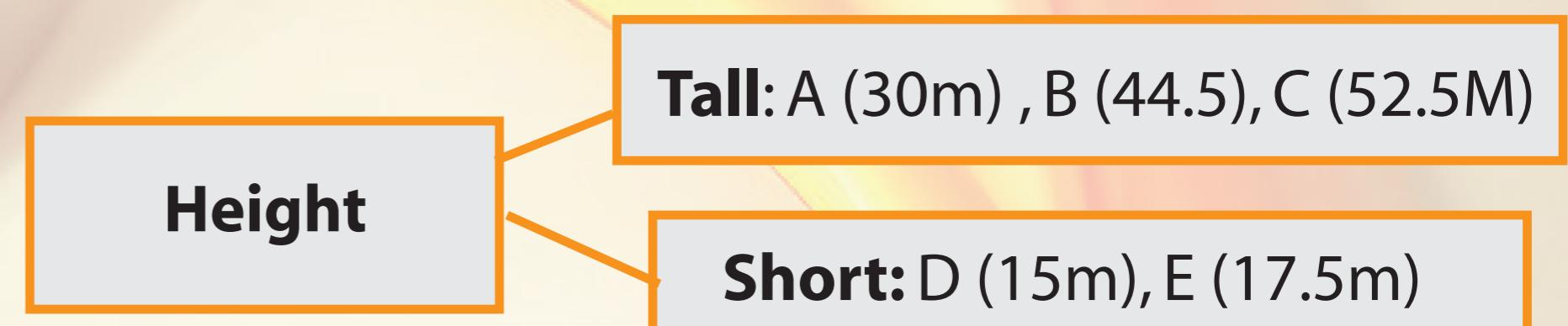
There are choices like "Feathers", "Wings" to describe the animal. The user is to tick the box beside the respective choices.

Once he is done with his selection, there will be a pop-up at the bottom of the page stating what is the species of the creature described.

## Conclusion

According to the results, it is impossible to use the DSS if there are too many outcomes available. This is because only specific factors can be analysed. For example, to compare the respective heights of 5 buildings, you will use "Is it tall or short?" in the Decision Support System.

You cannot compare the height of the buildings in detail, like "30m" for Building A, or "44.5m" for Building B. In the DSS, the result would be like this:



As depicted in the results, we can only define the species based on its general characteristics like the presence of feathers.