🐾 Pet Health Advisor – Vet Clinic System

This program is a simple **Veterinary Clinic Registration System** written in C++. It simulates a receptionist's interface for logging pet visits, choosing breeds, and recording conditions.

📚 Libraries Used

```
#include <iostream>
#include <vector>
#include <map>
#include <string>
#include <ctime>
```

- iostream : For input/output using `cin` and `cout`
- vector : Dynamic array, used for storing lists
- map : Key-value structure for storing animal types and their breeds
- string : For working with text
- ctime : To get current date and time

🔧 Function: `toLower(string s)`

Converts a string to all lowercase letters. Useful for case-insensitive comparisons.

```cpp
string toLower(string s) {
    for (char& c : s) c = tolower(c);
    return s;
}
```

📌 Example

```cpp
toLower("YES")  // returns "yes"
```

🕒 Function: `getDateTimeNow()`

Returns the current **date and time** as a formatted string.

```cpp
string getDateTimeNow() {
    time_t now = time(0);
    char buf[30];
    strftime(buf, sizeof(buf), "%Y-%m-%d %H:%M:%S", localtime(&now));
    return string(buf);
}
```

📤 Output Example

```
"2025-04-13 14:22:10"
```

🐾 Function: `listBreeds(const string& type)`

Displays a list of animal breeds based on the selected animal type.

```cpp
void listBreeds(const string& type);
```

- Uses a `map` where keys are animal types (dog, cat, etc.) and values are a list of breeds.
- Valid types: `"dog"`, `"cat"`, `"bird"`, `"fish"`, `"reptile"`

🔸 Example

```cpp
listBreeds("cat");
```

🔹 Output:

```
Available breeds:
  [1] Persian
  [2] Maine Coon
  ...
```

🔁 Main Program Flow (`main()`)

Step-by-step logic:

1. Greet user and ask to sign in.
2. Loop through pet registration:
   - Ask for owner's name
   - Ask for pet name
   - Choose animal type
   - Display and select breed
   - Enter disease/condition
   - Show summary with current timestamp

3. Ask whether to register another pet.
4. Ask to sign out.

🧪 Sample Run

```
Sign in? (yes/no): yes

Enter owner name: Alice
Enter pet name: Charlie
What kind of animal? (dog/cat/bird/fish/reptile): dog

Available breeds:
  [1] Australian Cattle Dog
  [2] Boxer Dog
  ...


Select breed from the list above: Boxer Dog
Enter disease/condition: Cough
```

```
+------------------- REGISTRATION SUMMARY ------------------+
| Owner Name  : Alice
| Pet Name    : Charlie
| Animal Type : dog
| Breed       : Boxer Dog
| Disease     : Cough
| Timestamp   : 2025-04-13 14:22:10
+----------------------------------------------------------+

Would you like to register another pet? (yes/no): no
Receptionist: Would you like to sign out? (yes/no): yes
Session ended. Goodbye!
```