COMBAR COST EU

a mobile application proposal

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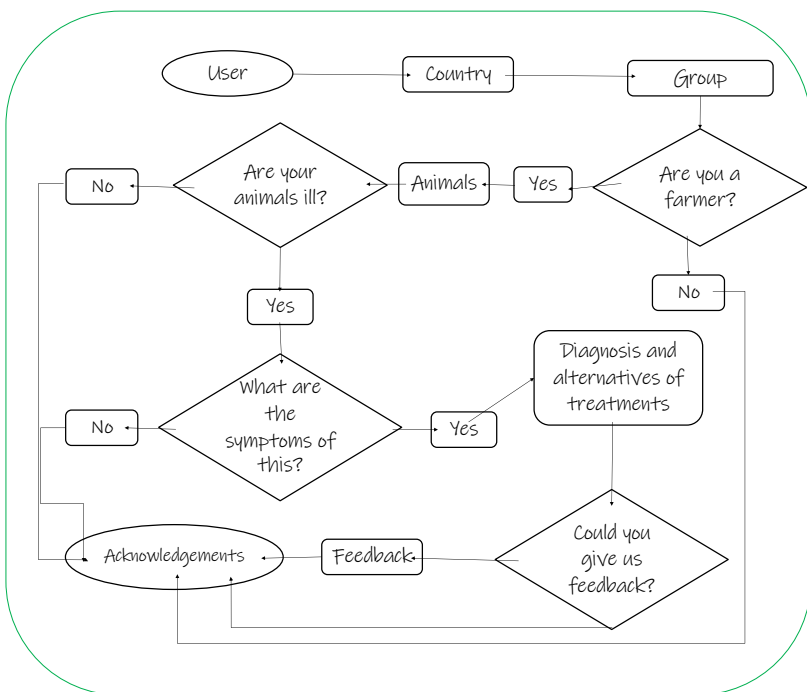[1] Instituto Politécnico de Bragança (IPB), Portugal

Introduction

Diagnosis and treatment options/strategies for helminth parasitic diseases are not standardized globally, or even across Europe, due to factors such as epidemiology, resources availability, socio-economics and the lack of adequate information. Good communication of options can help to overcome some of these problems. In this sense, it is proposed to develop a mobile application (Abozeid *et al.*, 2021) that allows the tailoring, and sharing, of knowledge (Abu-El-Noor *et al.*, 2021; Kunkel *et al.*, 2021) related to the various diagnoses and treatments in a format appropriate for all stakeholders (e.g. farmers, veterinarians, universities, researchers, laboratories, industries). The proposal aims to present the theoretical functionalities for the creation of a mobile application (Muashekele *et al.*, 2021), the application should have a sequence of options that must be grounded in theoretical requirements.

First of all, there is a necessity to have inputs standardized by the application (e.g. country/region, applicable legislation, animal typology, disease characteristics, symptoms) that should be entered into the application. The aim is to provide a range of tailored options to the end-user. Second, given the user's choices, the application can offer information and guidelines (including veterinarians available, laboratories, diagnosis, treatments, stores, among others). It is highlighted that the main gain may be the collection of information, whenever the user allows it. Finally, considering that most farmers use the language of their country, it is crucial to have the application in different European languages.

Tables 1 to 4. A few examples of functionalities

Country	Farmer	Vet	Researcher	Industry	Others

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	Sheep	Goat	Cattle	Other(s)
Animal G1				
Animal G2				
Animal G3				
Animal G4				
...				

Animal X	Frequency (days)				Intensity		
	1- 3	4 - 10	10-30	+ 30	Not so much	Much	Very much
Symptom A							
Symptom B							
Symptom C							
Symptom D							
Symptom E							
...							

Alternatives (decision)	Own decision	Vet	Another farmer	Retail	Other
No treatment					
Consult with the veterinarian					
Doing the previous exam					
Administering drugs					
Control					
Sharing data					
...					

Figure 1. An overview of theoretical functionalities to create a mobile application

Figure 2. Main basic information about the user

References

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