

## Mobile-Based Animal Vaccination System for Sri Lanka

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Traditionally, animal vaccination is done by a veterinary doctor and the issue of vaccination record book/card is maintained by the pet owner. However, there are many issues in the traditional system, such as damaging the record book, forgetting to vaccinate their pets, and the veterinary doctor requiring to update manually. Although lots of pet care apps are available, hardly any pet vaccination app is found in other countries. Even in Sri Lanka, there is no digitalized method in the pet vaccination process. The mobile-based animal vaccination system covers the whole process of animal vaccination, and it can be used as a digital vaccine card. The system provides vaccine stock management, pet owner registration, pet profile maintenance, reminder alerting, and appointment management, event notifying, and reporting. Further, emergency and insurance claiming facilities available in the system have not been previously implemented for animals. Pet profile transferring is also possible in the system. The mobile-based animal vaccination system is developed using the ionic framework, and Geofencing is used to locate pet food and pet product shops. The system enhances the animal vaccination process in Sri Lanka, and the automated process will be a great benefit for pet lovers as well as veterinary professionals.

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