INTRODUCTION

Livestock is an economic activity of ancient origin consisting of domesticated animal handling for production for use.

An essential process in the history of society was passing a gathering economy to an economy of voluntary production of certain plants and animals. However a special case arose regarding the situation that was rampant in the world, was nomadic herding. Even today, it is the livelihoods of many people who are marginalized, as the Tuareg in the Sahara desert and the Maasai occupying the mountainous areas of Kenya and Tanzania.

It is estimated that this activity occupies about 100-200 million people worldwide; land operated under these systems represent approximately 30 million square kilometers, or twice the land devoted to agriculture.

Today many ethnic groups around the world still retain their Orthodox customs limited to nomadic lifestyle and livestock as their main economic activity. For reasons of feasibility traveling during his life through vast deserts and endless steppes, mountains and deep taiga, however, not having access to the necessary information, it is likely that people damage their ecosystem implicitly and migrate without no benefit and with many adversities on the road, since they can go into areas that do not meet the requirements to meet the needs of themselves and their livestock.

Over the centuries these people have developed ways to survive in an often hostile environment. Pastoralists have herds of yaks, sheep, camels and goats, besides horses.

PROBLEM STATEMENT

The lack of knowledge about the different effects of livestock in the ecosystem, because pastors fail to utilize the resources that nature provides them properly, just as the conditions of misinformation between people within these communities promotes constant overexploitation of the regional ecosystem, as the properties of soil, climate, pastures and water sources.

An innovative solution to this kind of problems that arise is necessary, inform communities about areas and safer ways to move to provide the necessary information through mobile devices closest to their use areas.

JUSTIFICATION

The application is developed for communities engaged in nomadic livestock, important considering that pastoralists around the world are informed about data as relevant to its activity as is the type of land area, climate and reserves nearby water, for to have a proper management of natural resources around them and to make the most.

HYPOTHESIS

With this application, people engaged in nomadic livestock may have better information for the management of surrounding natural resources to their area, for the proper feeding of livestock and thus avoid a negative impact on the ecosystem due to this economic activity.

OBJECTIVES

General

Develop a mobile application that helps the community of pastors from around the world to preserve their livelihoods by providing access to information on the best ways to get the necessary resources, support their migratory journey and give notice of the availability of water and pasture keep under their livestock and integrate Orthodox nomadic communities in the implementation of networks and mobile devices in their everyday lives and take care of the regional ecosystem through a collective management of natural resources through networks and mobile devices.

Specific

• Optimize livestock production in livestock nomadic communities.

• The farmer able to identify the best routes and grazing areas based on the information provided by the application.

• Caring for the regional ecosystem based on a model of extensive livestock.

• Reduce the death of livestock due to lack of food and lack of water.

                                         DESCRIPTION OF DEGREE OF INNOVATION

The application allows to know the conditions of the areas where there is greater fertility of the fields and water availability for both the herd and the individual, through records takes management areas recently exploited to warn communities of farmers and avoid over-exploit the areas of consumption and the integration of a database to inform communities of farmers who vegetation type is best for their livestock and where is trying to make it more feasible for both the community and environment.

DESCRIPTION OF PLANNING AND DEVELOPMENT PROJECT

The following sections describe some aspects considered relevant for the development of the project:

Defining hearing

The mobile application is aimed specifically at communities of nomadic herdsmen from different regions of the world who want to make better use of the resources that nature provides, and promote environmental education directly, considering that prevent overexploitation of the regional ecosystem generates better performance in livestock production in the long term implicitly emerging sustainable farming.

Functionality and system processes

The developed application is able to generate the location of the individual user placing it through the Google Maps API integrated into the application, determine in real time surrounding areas are best for a grazing their livestock and report on the exploitation that has each area had recently.

• Location in real time.

• Mapping the most optimal areas for livestock grazing by community and location.

• Generating a database with information that is constructed collectively by users. on the types of pasture for each type of livestock.

Scope of the system

The system allows for communication between nomadic herding communities through information published by each network user.

System Environment

The application has the ability to operate in a multiuser environment on mobile devices that have installed the Android 4.1 Jelly Bean or higher operating system with an Internet connection.

Finally the application development has been carried out using only free development tools and free distribution, such as the Java programming language and the corresponding IDE Android Studio as well as database MySQL Community Edition, so it can be installed in   
different systems like smartphones or tablets without paying any license in particular. DESCRIPTION OF DEGREE OF FEASIBILITY (technical and financial) As regards the degree of technical and financial feasibility, we believe that our software is feasible in both aspects, as related in the following sections. In terms of technical feasibility, system construction has been carried out using only free development tools and free distribution, such as the Java programming language and IDE Android Studio as well as database MySQL Community Edition, so it can be installed on various mobile devices without paying any license in particular. A study by RBC Capital Markets determines that at least 75% of the world population has a Smartphone, so we can ensure that it is something accessible to the vast majority of people since our application does not require large requirements function properly, therefore should not present problems installation. This is important to note only that the mobile device must have a connection to access data and the location of it. Finally, with regard to financial feasibility, our project does not require a large investment, as seen in the list of hardware and software requirements that shown in the previous section. The sum of these requirements, whereas a mobile low-end purchase and a basic package of internet, the cost would range between $ 60 and $ 75 DLS of initial investment for equipment and rent payment package for internet. However, we believe that the most feasible to implement this project in communities is through some social program of the government concerned in the country that want to apply.

DESCRIPTION OF SOCIAL TECHNOLOGICAL IMPACT AND / OR SUSTAINABLE DEVELOPMENT.

We consider it important to develop this project as it will help solve the problem previously raised, contributing among other things in the proper management of natural resources in a very noticeable percentage since the implementation of this project not regional ecosystems where it is practiced won’t be exploited. This will be contributing to the conservation of the environment of each region of the world where this type of economic activity as well as environmental care is practiced, and will foster better performance in livestock production for communities engaged in this activity form.

CONCLUSION

We consider it important to develop this project, as it will help solve the problem previously raised, contributing among other things, to improve the care of the environment and generate sustainable economic activities, thereby strengthening the overall functioning of the economy. We also believe the realization of this important project and that this will be contributing to the proper management of natural resources in a large percentage. Like we contribute in communication between nomadic communities pastoralists in different regions of the world, may feedback based on the experience and thus solve the possible adversities collectively.