FINS AND TAILS: An Online Application

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Abstract – *Nowadays, the interest towards ornamental fish farming is increasing among the people. So we are introducing an android application called "FINS &TAILS", which act as a mediator in the marketing of ornamental fishes. We are planning to support and encourage the fish farmers through our application. It provides online buying and selling of ornamental and ordinary fishes. Here we providing online free help service for farmers and customers and they can access the details about the fishes such as weather condition, temperature, food and pH of water. The application also provides a link connected to the fisheries department which gives the information from the government. Sharing the images and videos of ornamental fishes will help the fish farmers to know about the various types of fishes. The important feature of the application is GPS service. Through this facility, fish farmers can easily access the nearby location of fish farms.*

1. INTRODUCTION

Human life consists of a number of complexities and uncertainties. The development of human race since evolution remains many questions which are not yet answered. Feelings, intelligence make human different from animals, yet it make complexities in human mind. Sometimes human quarrels each other even following their wrong mind set. Thus, it led to many wars when animal that lacks feeling, intelligence, braveness etc. remains calm. Over disorder in mind sets may make human to dangerous psychopaths. Thus, human searched for options which can keep him cool and stable. So, entertainments like arts, sports etc. generated in between human activities. Nowadays pet keeping had changed to a medicine to reduce disambiguation [over pressure] in human mind. Although pet keeping like rearing cow, goat, etc. were for profit, protection etc. in olden days, today in this busy world most people weighs pet keeping as a mind relaxing process. Spending some time with the pet makes human mind relaxed and free from differentiated anxieties. Thus, pet keeping is one of the best ways to keep calm, cool, healthy mind.

"FINS AND TAILS" is introducing an online market place for fish breeders, sellers, fish lovers, buyers etc. to interact and to do business. Here we can avoid mediators and give information to each group, such as buyer, seller etc. in same location. Thus, it promotes new starting breeders also. The application provides online platform for buying and selling of ornamental fishes. Here we are introducing variety of ornamental fishes and it will help for fish farmers to know about the details of fishes. Also give accurate information such as weather condition, temperature, food, pH of water etc. So it is immediately provide up to date information about the changes in the fish farming. The application providing online free help service so customers can ask queries at any time. Here we are connecting all commercial institutions for payment facilities. There is a link connected to the fisheries department. So, the registered users can get notification from fisheries department.

1.1 Objectives

The application provides a platform for buying and selling of ornamental fishes. The user can add the details of the fishes and their price. If anyone can interest to buy that fish the user can deal with the order through this application. We ensure about customer's security. Online buying and selling has become an important part of many people's lives. Online marketplaces provide a new and more convenient venue for the exchange of virtually all types of goods and services. Also providing daily information such as weather condition, temperature, PH of water and food related to each fish. The speciality is that there is an access to the fisheries department and also get notifications from them. Another important feature is GPS service. It easily helps to identify the nearby fish farms. One needs to realize that fish breeding is not similar to breeding of other pets. It is actually very different and technical. Some people keep ornamental or aquarium fish as a hobby or personal interest.

1.2 Literature Survey

Abalika Ghosh [1], opined that about 7.2 million houses in the USA and 3.2 million in the European Union have an aquarium and the number is increasing day by day throughout the world. Ornamental fish farming is also growing to meet this demand. The fact is that USA, Europe and Japan are the largest markets for ornamental fish but more than 65% of the exports come from Asia. It is encouraging news for developing countries that more than 60% of the total world trade goes to their economies.

Although India is still in a marginal position its trade is developing rapidly. An estimate carried out by Marine Fins and Tails 13 Products Export Development Authority of India shows that there are one million fish hobbyists in India.

C.Mercy Amrita [2], opined that in our day to day activities

usage of mobile application becoming a mandatory role. It includes online purchase, Budgeting, Entertainment and Sports, etc. The usage of mobile applications in fisheries sector is becoming popular in developing countries but Indian context, it is still unexplored. Hence, the objective of this paper is to review the mobile applications in fisheries sector. About 7 million people living along the Indian coastline, spanning over 8100 km, are depending on fishing for their livelihood.

Dilip Kumar Krishnappa [3], opined that compute cloud platforms pay-as-you-use model suits applications which require resources sporadically. Severe weather detection and prediction is one such application. Since severe weather events are rare, dedicating servers for such application wastes resources. In this paper, it present the feasibility of using commercial cloud services for severe weather detection and prediction. It shows that commercial cloud services provide the required network capability to perform the real-time operation of weather detection and prediction from the radars to the cloud service instance.

Igor Khokhlov [4], opined that the application for a system security score evaluation. The security score represents overall security level of the Android OS based device. The proposed application is based on the library that uses standard Android OS API and Google Safety Net library. It followed the modular approach that allows using the library independently from the application in any stock Android OS version 5.0. Application evaluates overall security level, gives an explanation of each parameter, give advices how to improve overall security of the device.
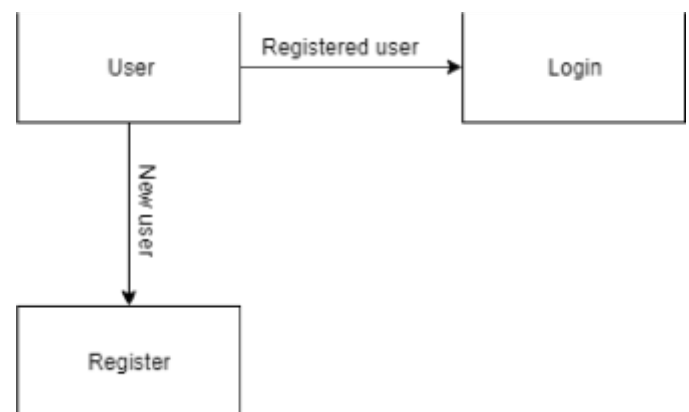
2. PROPOSED SYSTEM

FINS AND TAILS is an online market place for fish farmers to interact and to do business. Here we can avoid mediators and give information to each group, such as buyer and seller in same location. The main aim of this application is to provide opportunities to fish farmers. User can sell and buy their products easily through this. It mainly developed using android studio (android language, java and php are the languages used). Each and every user of FINS AND TAILS have a unique identification number (Email or phone number) if they are registered in this application. By using this unique number the user can be sign in to the application. A user can act as buyer and seller according to their requirement. The user details are stored in database. When the user enters the email id and password, it checks the details stored in the database. If the details are correct then he/she can sign in to the application. Otherwise user cannot access the application. Anyone forgot their password, they can reset it by using email. The user can upload images and videos. Thereby others can easily buy the products. Other important factor is GPS service which helps to find the near fish farms. It can be accessed by number of users at the same time. Different customers from different places can purchase

the same products from the application simultaneously. They can place order, view orders, update orders at the same time. There is no constraint for the number of user accessing the application. It has fantastic user interface design and it so user friendly that any unknown user can easily use it without any complexity.

2.1 Applications of different modules

The welcome page will contain a logo of our application "FINS AND TAILS" and also a button to move to the signup page. The signup page will contain two options, one is to registered user and other is to the new user.

Fig -1: User architecture

After login, they are redirected to their respective profiles. In home page there are different options are included such as food items, fisheries department, order, feedback, complaint, notification, payment, guidelines.

2.1.1 Admin Module

All the admin related controls are presented in this module. The web-based administration area allows the admin to configure every aspect of this application. The admin can view and process all the functions of the application. The admin can edit all the aspects of an order after the order is placed. Admin have a provision to enable or disable the features of application. In fact, admin has full control over each and every area of this application.

2.1.2 User Module

This module deals with all the customer side controls. By using email and password the customer can login to their account. The customer can update their personal details, password, view all the orders placed, view order status, update the orders placed, send feedback to the administrator etc. In short, customer gets the complete freedom to managing their account without any interference. Here the user can upload the images and videos of ornamental fishes.

And user can act as both buyer and the seller. User module includes following submodules:

Login: A login is a set of credentials used to authenticate a user. The user can login into their profile using a unique id and password. There are many security measures designed to prevent the unauthorized access to confidential data. When a login fails (i.e, the username and password combination does not match), the user is disallowed access.

Register: A registered user is a user of the website or the system who has previously registered. Here we need to enter some credentials such as name, date of birth, address, phone number, email, password, place etc.

Orders: This section describes the order of user which they ordered. It is a list contains the ordered items by the corresponding users. When the user clicks on the button for ordering, then the corresponding item is added to the ordered list with the customer details and the product cost.

Payment: FINS AND TAILS provides online payment facilities to buy the product. The payment can be done by using debit/credit card/phone pay. The payment details only can be accessed by the seller, which ensures high level security.

Fisheries Office: Application provides a link to the fisheries department's website, which gives the updates and notification from it. Information includes weather condition, temperature, food, pH of water and so on.

3. CONCLUSION

Nowadays the interest towards ornamental fish farming is increasing widely among the people. This arises the need of a virtual fish market where the users can be easily accessed using a smartphone. FINS AND TAILS is an online market application which mainly targets on fish farmers, fish sellers and buyers, fish lovers. It provides an efficient platform to buy and sell varieties of ornamental and ordinary fishes. Due to the lack of knowledge the individuals may not have idea about fish farming techniques and methods. The application gives suggestions and tips to the farmers for the sustainable growth of the fishes and the farming environment. FINS AND TAILS updates the accurate information about the current weather conditions, food for different fishes, temperature and pH of the water used for farming etc. by using this information the farmer can make different suitable environment for the healthy growth of the fishes in different breed. Application has link that connects to the fisheries department, which paves accesses to the updates from the fisheries department. This application ensures complete security for customers. It provides on-line free help service which the registered users can use in 24/7

hours. Users are capable to ask queries at any time without facing any hindrance. Application connects all commercial institutions for the online payment facilities. It also gives suggestions to facilitate a good environment for start new farms. The farm lands are easily allocated using the global positioning system, so the users can easily found the locations of the nearby fish available farms. Lots of people are interested to fish farming but they are not come forward because of the lack of knowledge about fish farming. This application help to supports interested person by providing good guidance and tips for farming. Application provides a good platform for buying and selling of fishes. The main problem of fish farmers is to find a good market with best quality fishes to buy and to find market for selling their product with maximum profit. FINS AND TAILS is the better solutions for each and every problem of fish farmers.

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