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Design and Development of Android Based Animal Healthcare Application

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Abstract: ***This Paper represents the work related to the Design & Development of Android Based Animal Healthcare Application provided a simple interface for user to find nearby veterinary hospitals and easily consult with veterinary doctor about their pets. In this paper we propose a Medical services Application and online conference for Creatures. This Animal Healthcare application contains all relevant information regarding animals, veterinary Doctors and animals common diseases with their symptoms and basic precautions. In the some cases of emergency, users or Persons cannot able to treat sick animals immediately and they not able to contact immediately to right doctors and specialist. This issue is the main source of death in said creatures. Therefore, developers have the concept to develop an Android based application system which keeps record of authenticate doctors, proper detail, location etc. The android application focused on the high quality specialist based on their treatment and suitable timing for users. Based on review system users are able to find and decide which doctor will be best for them. Admin can monitor all the registered doctors, if the doctors getting continuously negative responses from the users, admin will suspend their account as well. Users will get only reputed doctors and quality assurance here will helps a lot for easy and fast treatment.***
Keywords: Mobile Application, Firebase, Admin Portal, User Portal, Doctor Registration.

I. INTRODUCTION

"DESIGN AND DEVELOPMENT OF ANDROID BASED ANIMAL HEALTHCARE APPLICATION" is used to cure their animals by finding the near by veterinary hospitals and direct contact to doctor for consultation. In the application doctors can do registration themselves and they will verified by admin panel. User have to do one time registration and after registered user can easy contact to the doctors and also see the details of doctor.

The creatures we keep as pets might offer intellectually wellbeing advancing advantages, and the current proof should be reviewed and investigated as an initial move towards more noteworthy arrangement. The findings are that the research is broad and fragmented, characterized by several core complexities including confirmation bias, trivialization and reductionism. There is evidence that pets play a positive role in mental well being for many people, including some who experience major social disadvantage. In general, if animal lovers not getting proper treatment from authenticate and knowledgeable doctors then it causes to harm to their pets. This is a significant reason for wiped out creatures to ruining recovery with numerous liable to lose their lives. So that's why we creating this android based platform to enhance save the lives of their loved once. The hospital services are an android-based application.

II. METHODOLOGY

An Android Studio supplies a suitable environment where you can build apps for Android phones, tablets, Android Wear, Android TV, Android Auto, and many more. Structured principle modules allow you to divide your project into teams of functionality that you can alone build, test, and debug. The android studio is used for the mobile app.

Android apps are built as a variety of features that can be invoked each. For example, an *activity* is a type of app component that provides a user interface (UI).

"Veterinary app " is an application that is simple and comfortable to use for an online pharmaceutical from a veterinary doctor. This application is useful for remote areas, instant conferring, and medicine. The doctor will receive the user requests and responses accordingly. The user's data will add to the firebase database.

A firebase database or Realtime Database emulator is part of the Local Emulator Suite, which allows your app to interact with your emulated database range and config, as well as optionally your emulated task resources. Firebase is mainly used for storing the data.This stores the registration of the doctor.

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A common method in which using WebView is valuable when you want to deliver information in your app that you might need to update, such as an end-user agreement or a user guide. Within your Android app, you can create an action that includes a WebView, then use that to display your document that's hosted online. XML is used in the webportal.

III. PROBLEM STATEMENT

This project firstly, discusses the analysis of the identified problem and the latter presents the formulation of the identified problem of the Android Based Animal Healthcare Application .

A. Problem Analysis

We operate our health care system like a cottage industry, big, big cottages with state-of-the-art technologies to care for patients or pets, but infrastructure which is totally inadequate, systems which don't talk to each other .

The shortfall of frameworks, or inadequately planned frameworks, and the subsequent absence of mix are clear across areas, as well as inside individual medical services associations. Such structures can hurt patients or forget to convey what patients need.

Patient clients invest a lot of energy talking with a perpetual stream of doctors, attendants, advisors, social laborers, home consideration laborers, nutritionists, drug specialists, and different trained professionals, who time and again are uninformed about past clinical chronicles, meds, or therapy plans and accordingly work experiencing some miscommunication. When patients or users are moved from one setting to another—for example, from hospital to rehabilitation center to home—fragmentation of care results in overlapping or conflicting treatment that is

Here we describe some points over problems we generally face in our daily life:

1) If we want to know the availability of a doctor then you have to go to the hospital.
2) If any special camp is going on in the hospital then the common people are not aware of it.
3) We never find the availability of a doctor. We don't know about the hospital timing or doctor timing.
4) During an emergency, we can't find the perfect hospital or doctor.
5) We can't locate the specialist doctor nearby area.

So to overcome this problems we proposed this projects to help users to find their right pathway for their treatment.

IV. PROPOSED APPROACH

A. Overview

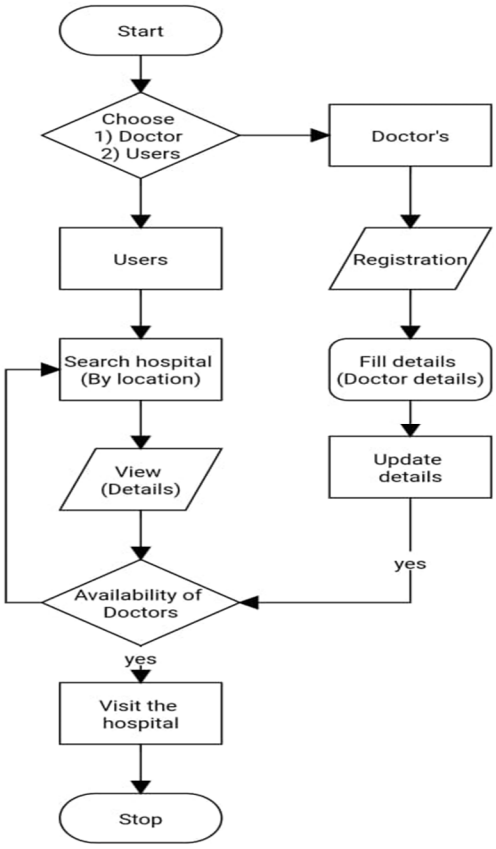
In this System modules can be divided into three major modules:

1) *Doctor Registration Web Portal:* We will create web portal for doctors as we know Doctors are very important persons in our society ..for treatment purpose so many people depends on them and without proper degree they are not authorized to do any treatment, in order to prove their genuineness government or medical council of India give them identity or registration no .it is the duty of every doctor to mention their registration no with all their prescription. if he has to mention his reg-no. then users will also be careful about the treatment and any body wants to make a complaint to medical council about wrong treatment it is required to furnish reg-no of doctor and all this details will expands towards this platform as well so Doctor will register here with all authenticate details and their location. Location may be of their hospital or their on home location so that people can see their authenticity.
2) *Admin Panel:* Admin Panel is basically the core of most applications. Without it the substance couldn't be in any capacity made. From this specific part the entire application might be made due. Obviously it is additionally intended to help client related capacities, from giving understanding into client conduct to following exchanges. The administrator board isn't open for ordinary clients of the application. Just being an administrator or having authorizations you can utilize it uninhibitedly. Admin panel plays main role here because doctor cannot directly enters here, Admin panel will analyse their authenticity and admin will register their account with all information as admin submit their information now users can see doctor's all information with their location.
3) *User Panel:* In this user will directly interact with application and can see all related interactivity provided by admin panel. User panel android application for users where he or she can decide where she should go for their treatment by seeing their location and other qualification and other medical related details.

a) User have to register their account using sign up Button then only user can login into the their account they can see all the information of any Doctor or Specialist.
b) All the data of User data will be stored in Firebase Database and that will authenticate user to sign in.

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V. FLOWCHART



VI. RESULT

Our system helps us to obtain the optimal compromise between patients' waiting time and doctor' use of time so that we can obtain the optimal cost of the entire system. Currently we are only considering the patients confusing problems about details and other information.

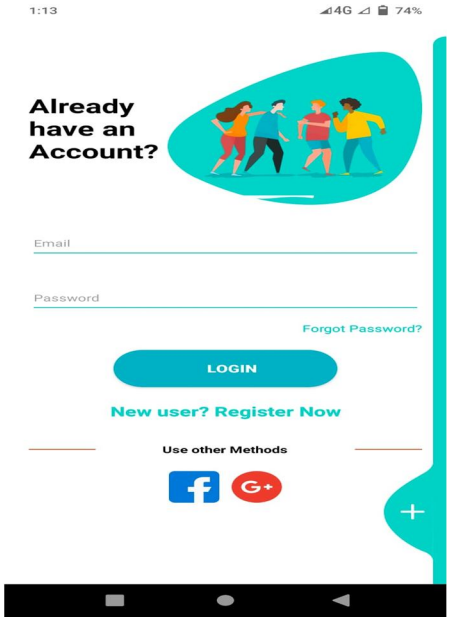


Fig. 1. Registration page for User

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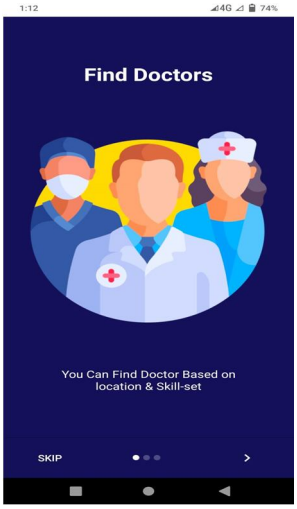


Fig. 2. Registration page for Doctor

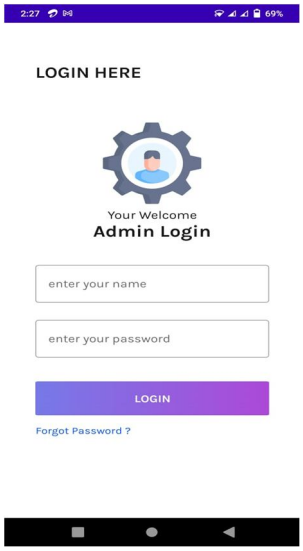


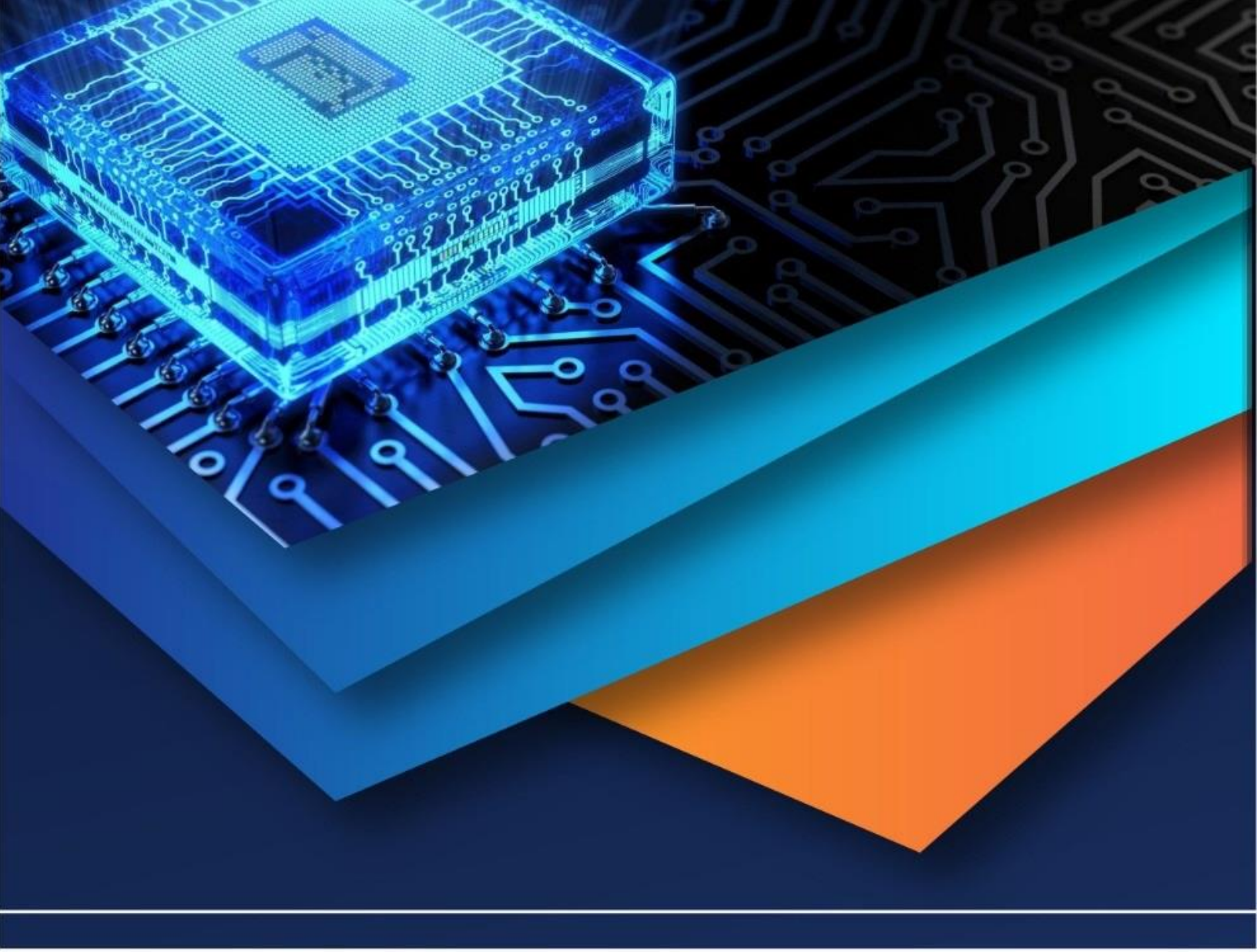
Fig. Administration portal

VII. FUTURE SCOPE

A. We can take appointment directly with doctor
B. We can easy check the locations of near by hospital
C. We can direct contact to animal food selling shop and gental care shop
D. We can search the animal information breed wise
E. In the future we want to implement Machine Learning and Reinforcement learning to improve the system.

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