

E-AGREE

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ABSTRACT

Technology has made inroads into almost all spheres of life, but sadly, India's vast agricultural sector has a severe lack of it. Despite rural India being predominantly agrarian, less than 30% of our farmers use the necessary equipment that facilitates productive and profitable work. Nowadays there are many online services which are on trend that give much benefit to user. This application named as farming tools hiring application for farmers is a rental service in which the farmer arrives to request a hire of a rental unit. It is more convenient than carrying the cost of owning and maintaining the unit. There are several problems occur on farmer like they are not able to hire a equipment of agriculture for farming in nominal amount or they do not find tools easily. In another case, sometimes farmers are unaware about the price of the agricultural equipment; such that farming tool owner misguide the farmers very easily and cheat them by taking extra money. The solution for solving such various problems occur on farmers regarding to agriculture can be overcome using this android application. This android application is an application that is accessed over a network such as internet or intranet. Therefore with this new method the process will be more efficient and safety of hiring equipment is secure. It is also the best way to increase the quality of agriculture management, productivity and can reduce the time constraints for farmers.

Keywords: Farmer, Android Phone, Farming Tools.

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I. INTRODUCTION

In this mobile application, farmer will hire farming tools based on their needs and other mechanization at a normal price. In this application, we will choose for the demand of farmer based on his demand we will recommend hire tools. In this, we will use pin code to locate nearby tools based on farmer's requirements. This application will provide full detail about the tools so that the farmer can choose a type of tools he need based on his requirements and can easily get familiar with it. To register the farmer, only mobile no and name will be required, after a successful registration the farmer will receive a pin for future use.

In this android application farmer just need to register himself and then he'll be able to book tool at the appropriate price. User only need to select the number of hours for renting, the application will automatically calculate the renting price according to the total time selected by the farmer.

II. LITERATURE SURVEY

With the help of different papers, journals and websites we find out the working different renting systems. From this papers we learn how to manage the online equipment store as well as we learn from the research papers how to handle the requirements of the user. This survey helps us to identify the different problems which are occurring during hiring any online stuff. The websites gave us the basic idea of the general renting system.

Bike Sharing and Rental System, This paper is proved very helpful as it says about the bike rental system which shows us the complete working of bike rental system. The optimal distribution of bike sharing stations should first of all cover the stops of medium/long range transportation modes. We can say that most of the station is visible; the more effective is the location. This paper explains the complete bike sharing and rental system in which the user

hires a bike from this system. The amount of rent is calculated by this system with respect to the time.

Web-based Agricultural Machinery Rental Management System (Research Article on Science Central Journal) A user searches through the agricultural machinery database (set up by the administrator) and selects the desired equipment to rent, at which point the terms and conditions and the rental fee are confirmed and an online application form is submitted. The contents of the application are stored on the DB server, and the administrator queries the reservation list and manages the fleet of agricultural machinery. This study was conducted to develop a web based business management system to ensure the efficient operation and transparent management of government subsidized agricultural machinery rental businesses. In this article it is clear that the government will provide the agricultural machinery to the user. From this article we learn about the requirements of farmer's

Online Car Rental System using Web based and SMS Technology, This paper described a notification-based content alert and web-based system using SMS technology. It was specifically developed for the alert notification to the customers about the car rental information, and the availability of the car reserved. The main purpose of developing SMS-based content alert for car rental system is to reduce the cost and time consumed, which is beneficial to the car rental agencies and customers. Therefore, the system was designed automatically to send an alert SMS to the customers about the availability of the car reserved.

III. SYSTEM REQUIREMENT

This includes the hardware and software specification which is required to run an application on a device.

Software Requirement: This part includes the software tools that we used to make an application and the services which will be used by an application.

A. Android Studio

Front End

-XML

Back End

- JAVA

Hardware Requirement

This section includes the hardware required by an application and which type of hardware the application will use.

- Smart android mobile phone

IV. PROPOSED SYSTEM

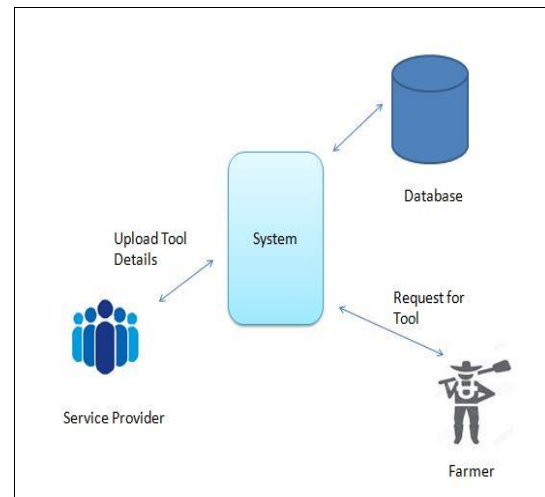


Fig: System Architecture.

Application has the following modules:

Modules:

- Login Module
- Store List Module
- Equipment List Module
- Booking Module

Login Module:

This module is responsible for the login purpose. In this module, the user will first have to enter mobile number so that an OTP can be generated. After getting the OTP, user will have to enter it correctly. If user is logging for the first time then the Registration page will be displayed in which the user have to enter details like name and address. If already registered, then user can proceed for the further process.

Store List Module:

In the store list module, there are numbers of stores present in which different types of tools are available. Details like address, pin code and contact number of each store is present with the name of the store. In this module, user can select any store to hire a tool. This module contains the equipment list module.

Equipment List Module:

This module contains a list of equipment used for agriculture. User can select any of the equipment according to their agricultural requirement. The total number of equipment available in the store is also given in this module.

Booking Module:

The booking module is responsible for the operations like hiring the equipment. To hire a equipment, the user will have to enter the number of hours, select date and time. After entering these details user will have to confirm booking. Then the user will get the total price of the equipment and hence the booking will be confirmed successfully.

V. ADVANTAGES

There are various advantages of this application –

- Enhance Business Processes
- Online Tools Reservation
- Availability
- Transparency
- User friendly
- Flexibility
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VI. APPLICATIONS'

- Can be used as a general renting service for farmers.
- Can be used as an interface between farmers who want hire and those who want to let out equipment.
- Can be used for large scale agriculture (corporate farming).

VII. CONCLUSION

By implementing the project which is 'Tool on Rent, we conclude that the problem statement is totally being eliminated through the deployment of this project. And the objective is achieved through the android application.

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