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Implementation on Food Wastage and Food Supply Management

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ABSTRACT : India may be a country largely made up of villages. The main industry in India is agriculture. Any country's development depends on the welfare of its farmers. Farmers face a number of issues as a result of a lack of cooperation among themselves and the absence of a union to represent their interests. This strategy aims to sell products to customers directly over the internet. Food is one of a person's basic needs, after clothing, a place to live, and other necessities. It is essential because it nourishes a person's body, which keeps them alive. However, because of the country's expanding population and industrialization, food waste has reached a new level. Many people wish to provide food for the homeless.

KEYWORDS: Farmers, Food, Donate, NGO.

I. INTRODUCTION

India may be a country largely made up of villages. The main industry in India is agriculture. Any country's development depends on the welfare of its farmers. Farmers face a number of issues as a result of a lack of cooperation among themselves and the absence of a union to represent their interests. This strategy aims to sell products to customers directly over the internet. Food is one of a person's basic needs, after clothing, a place to live, and other necessities. It is essential because it nourishes a person's body, which keeps them alive. However, because of the country's expanding population and industrialization, food waste has reached a new level. Many people wish to provide food for the homeless.

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The strategy connects donors and non-profit organisations to assist them in launching a programme to reduce food waste and improve unsold food.

Through such approach, surplus food donors and NGOs can be matched online.

II. LITERATURE SURVEY

"A Mobile Application for Food Waste Management in Urban Areas using Android Studio"

Author:D. Kanchana and P. Venkatachalam

Abstract: is a study that recommends using Android Studio to develop a mobile application for reducing food waste in cities. Below is further information on the paper:

The topic of urban food waste and its effects on the economy and ecosystem are covered in the first section of the article.

The authors then propose a smartphone application that would let consumers keep track of their food waste and learn sustainable eating practises.

The app's features include a food waste log, food donation options, and educational tools for reducing food waste, to name just a few.

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The writers also discuss the design and development of the application using Android Studio in the section on technical issues.
The application's potential benefits, including reducing food waste and promoting sustainable

"Design and Implementation of a Smart Food Waste Management System based on Android Platform"

Author : Y. Huang and X.
Abstract: A smart system for managing food waste is described in Chen, a research paper, and it uses an Android application as its user interface. Further information on the paper is provided below:
The paper begins by outlining the issue of food waste, its detrimental effects on the environment, and the necessity of an effective system to control food waste.
After that, the authors go over the system's architecture and layout, which includes an Android application, a cloud server, a microcontroller, and a sensor for food waste.
The food waste sensor measures the weight of the waste within a trash can by being fastened to the lid.
The sensor data is processed by the microcontroller before being sent to the cloud server for evaluation.

"Development of a Food Waste Management System using Android Application"

Author:S. M. M. Kamruzzaman and M. S. Rahman

Abstract: In the introduction, the paper discusses the problem of food waste, its harm to the environment, and the need for a system to reduce food waste.
The writers then go over the system's architecture and design, which comprises a database, a web server, and an Android application.
The database contains data on how food waste is produced and managed, including the type and amount of trash generated as well as the disposal methods used.
The web server acts as the system's backend, processing data from the database and sending it to the Android app.
Users of the system can track their food waste, receive waste reduction advice, and learn about sustainable eating behaviours through an Android app that serves as the system's user interface.
The writers go over the system's testing and installation procedures as well as the results of user research they carried out to determine the system's effectiveness.
The conclusion of the report discusses the system's potential benefits, which include reducing food waste and fostering sustainable living habits.
This study provides a comprehensive description of a food waste management system using an Android application, demonstrating the potential of mobile technology to address environmental challenges. It can be a helpful tool for researchers and programmers that are interested in creating systems like this.

III. PROPOSED METHODOLOGY

To reduce the original image's size, we define various scale factors for the vertical and horizontal directions. The pre-processing technique scales down the original colour image and turns it into a grayscale image. Finally, using edge density detection, adaptive thresholding for the discovered edges, and line density filtering, a collection of potential regions is extracted. The number plate is finally located by confirming each of the potential zones. The extracted number is looked up in the database to learn more about it.

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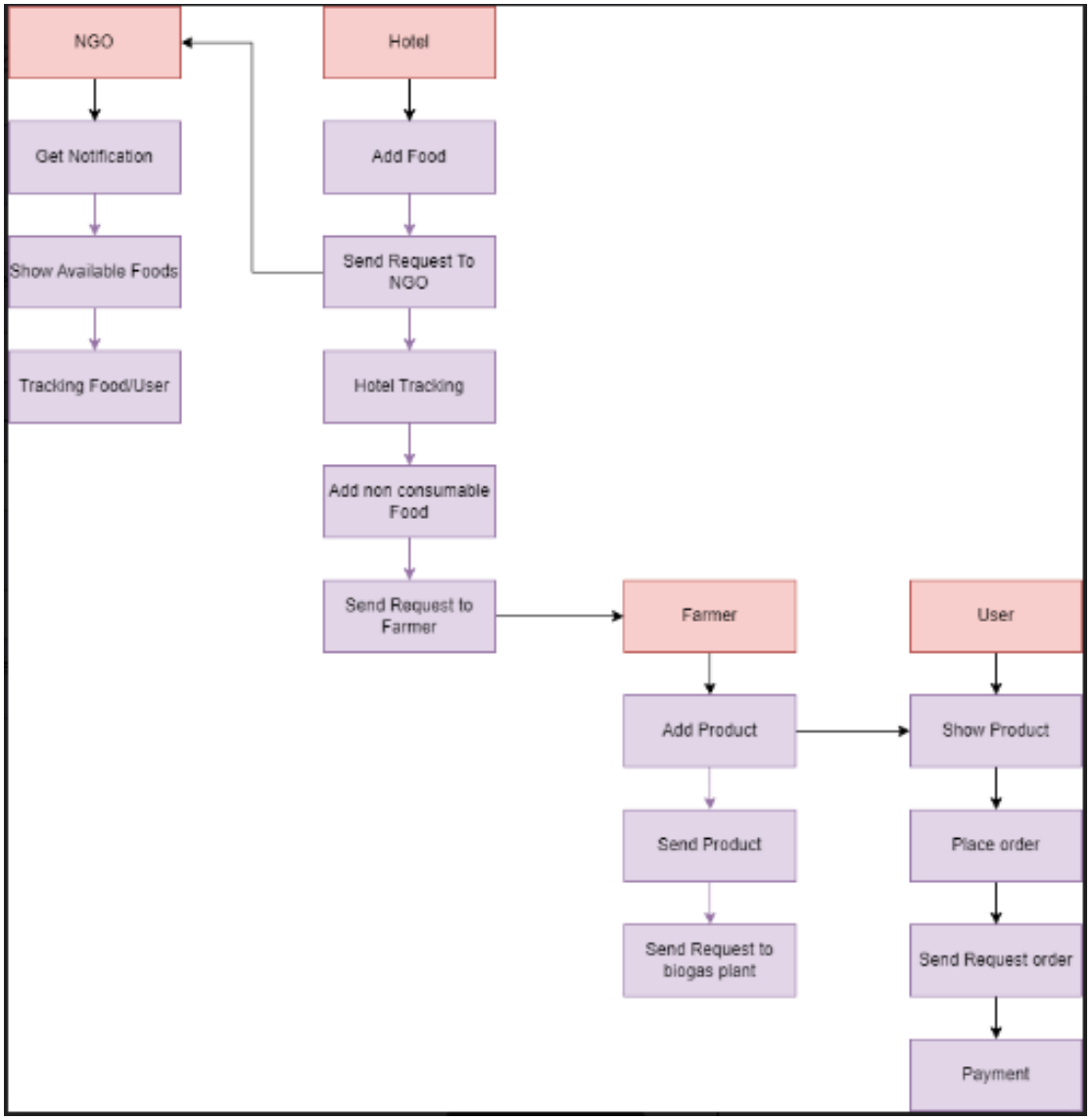

IV. IMPLEMENTATION

System Module:
Figure 1 depicts the system, which primarily consists of two elements.
1) NGO
2) Mobile User and these
are considering main modules of the system.

Steps for implementatiom:

1)Mobile User Module:
Mobile User In this module mobile user able to interact with NGO's to avoid the food wastage in functions, parties and soon. In this mobile user can register, login and performs the following activities:
•Set the current location
•Search the NGO's availability
• Send SMS to Food availability to NGOs
•After the delivery is complete, send an SMS to the NGO recipients of the food

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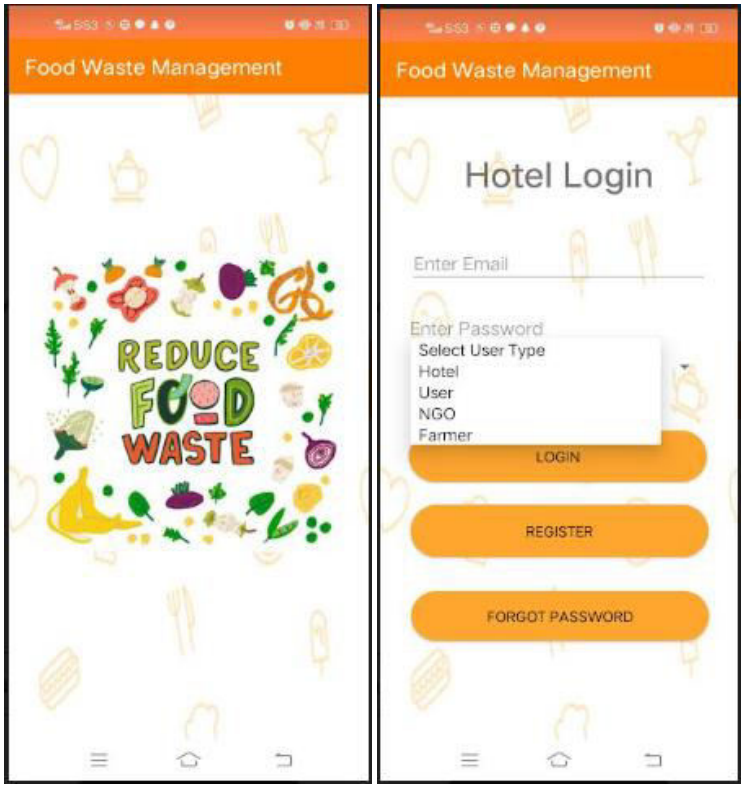
2)NGO Module:
•This module provides an interface to the NGO's.
• NGO's register for the app, log in, and update their information in this module..
• View the Food information.
• And view the location of mobile users who send the food availability SMS.
• And if he is interested, make a call to a mobile user.

3)Send SMS Module:
• In this module, the system will use SMS Manager in the Telephony Service to send the SMS to the receiver..
• In this we have the recipient number and the message to be sent. We will first create a object for SMS Manager in the Telephony service, using the method send Text Message system will send the message.
• After sending SMS to desired recipients.

4)Database Module:
• It is crucial to maintain the all the data in proper way.
• We establish a table in this module and store information about NGO's, mobile users, history, and other things.
• The proposed system can be implemented as follows: In this proposed system we implemented android application to efficiently enable communication between NGOs and users.
• In this system we use SQLite DB to store the information about users and NGO's. This System utilises SMS service and Google Maps Efficiently.

V.RESULTS



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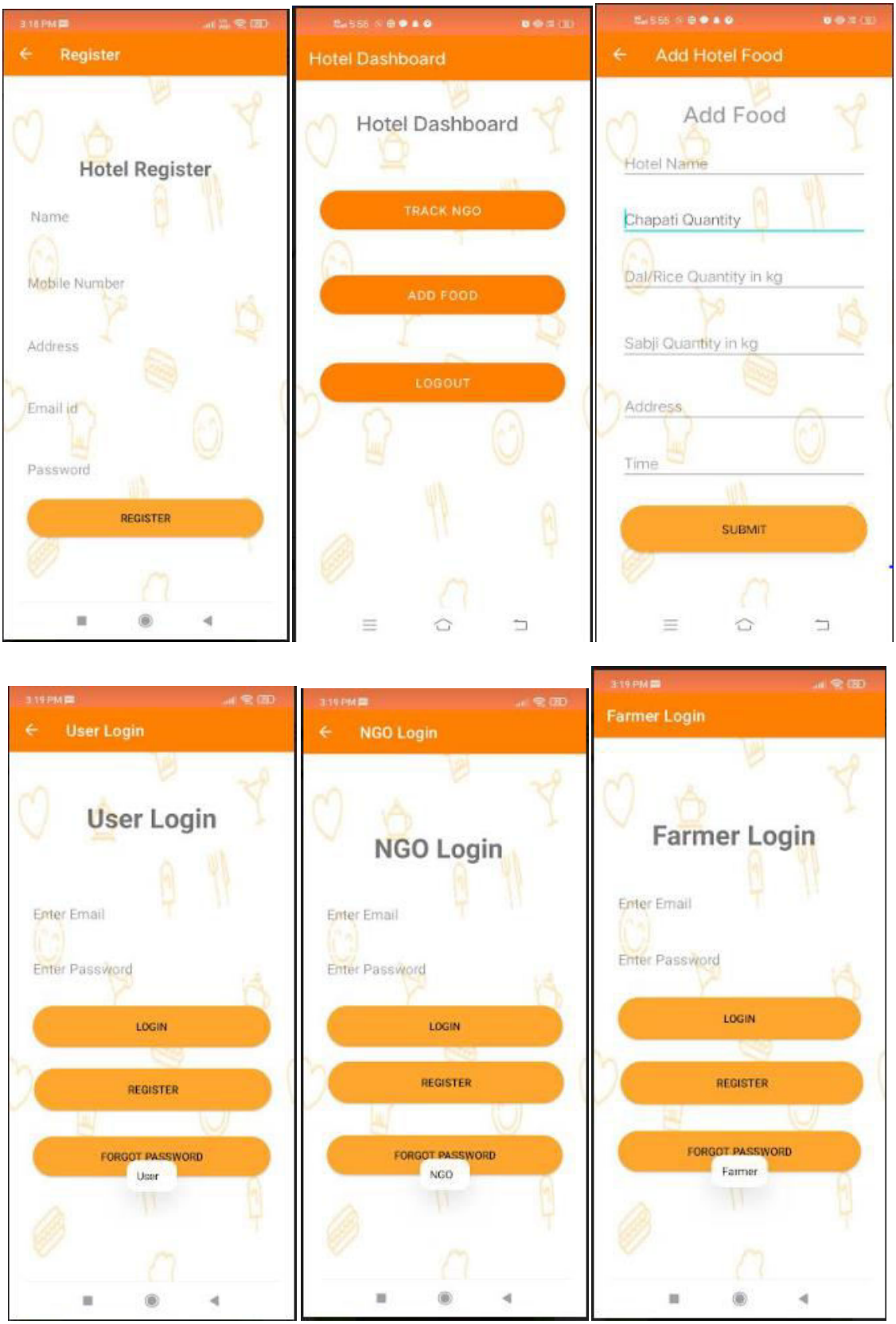

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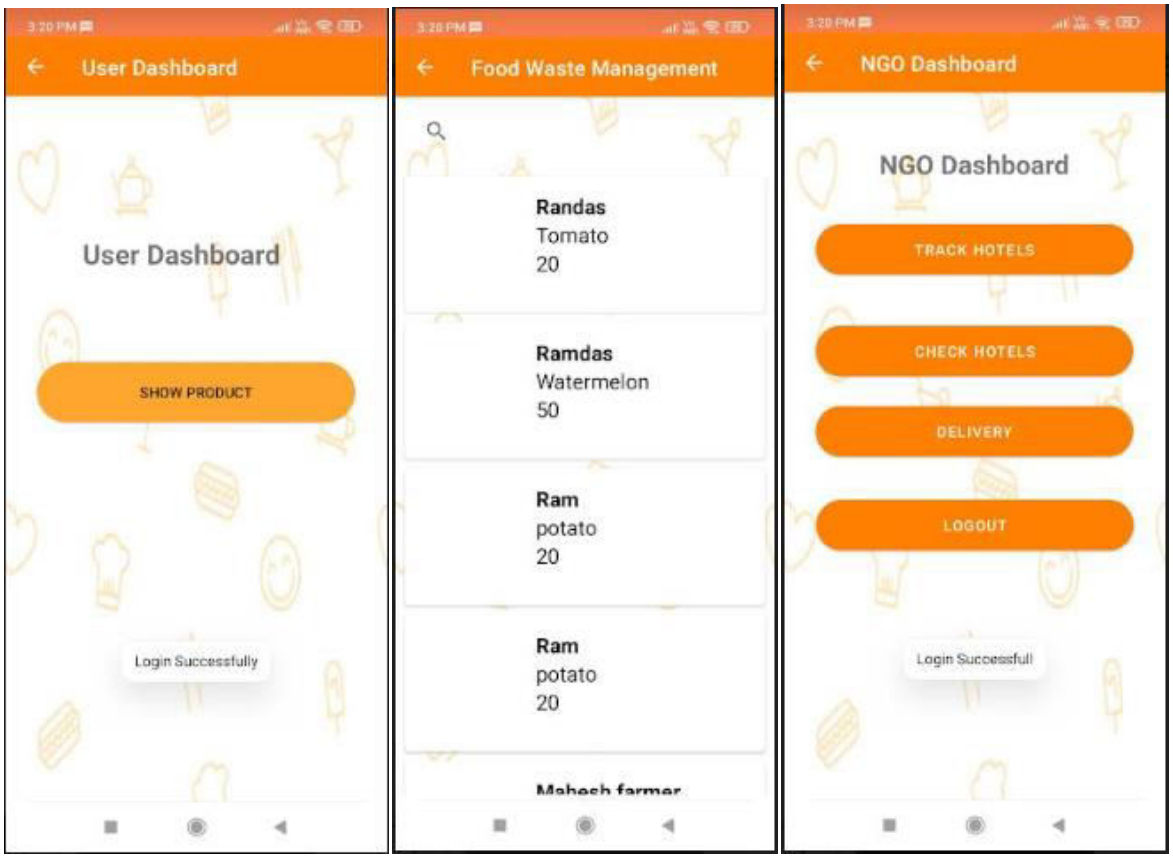

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VIII. CONCLUSION

For the purpose of online action prediction in untrimmed skeletal sequences, we have presented a network model, SSNet. The introduction of a stack of convolutional layers models the dynamics and dependencies in the temporal domain. For SSNet, a scale choices method is also proposed, allowing our network to select the appropriate layer for the most appropriate window scale for action prediction at each time step. Additionally, to enhance the performance of our network, a hierarchy of dilated tree convolutions is created to learn the multi-level structured representations for the skeletal data. All of the benchmark datasets that have been tested show higher performance using our suggested strategy. The SSNet is suggested in this research as a solution to the online action prediction problem. The issue might possibly be solved by expanding this network. It is necessary to find each action in the skeleton sequence and, at the same time, forecast the class of each action in order to perform temporal action detection in streaming skeleton sequences. This extension is left for future work.

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