IJARSCT
International Journal of Advanced Research in Science, Communication and Technology
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
ISSN: 2581-9429
Volume 6, Issue 3, March 2026
Impact Factor: 8.2

FOOD BESTIE

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Abstract: *Food Friend is a food based website application for organization which help poor and needy people which does not get food or for orphanage people which need food. We see that in hotel lots of food are remain and wasted so our website giving them platform to help poor and needy people on daily basis or whenever they want.*

Keywords: Food Management, Registration for hotels, Delivery Boy, orphanage, web based Application

I. INTRODUCTION

Food wastage is a major problem in today's society. Large amounts of food are wasted in hotels, restaurants, and social events such as marriages and functions. At the same time, many poor and needy people do not get enough food to eat. This situation shows the need for a system that can connect food donors with people who need food.

FOODFRIEND is a web-based application developed to reduce food wastage and help needy people. The system allows hotels or function halls to donate leftover food through the website. Delivery boys collect the food and deliver it to orphanages or organizations that require food.

The system includes different types of users such as hotels (donors), delivery boys, orphanages, and administrators. Each user has a separate login and performs specific functions in the system. This application helps in proper food distribution and encourages people to participate in social welfare activities.

The main goal of FOODFRIEND is to reduce food wastage and ensure that leftover food reaches people who need it the most.

II. LITERATURE REVIEW

Food wastage has become a global concern, and many researchers and organizations have tried to develop systems that can reduce this problem. Various food donation platforms have been created to connect food donors with charities and needy people.

Some systems allow restaurants and hotels to donate extra food through mobile applications or websites. These platforms help organizations collect food and distribute it to shelters, orphanages, and poor communities. Technology plays an important role in making food donation easier and faster.

However, many existing systems have limitations such as lack of proper coordination between donors and receivers, limited user access, and poor tracking of food delivery. Some systems also do not maintain proper records of donations.

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The FOODFRIEND system improves this process by providing a structured web application where donors, orphanages, delivery personnel, and administrators can interact efficiently. The system maintains proper records of users, food donations, and deliveries, which helps ensure transparency and reliability.

III. METHODOLOGY

The FOODFRIEND system works through a simple and organized process to connect food donors with needy organizations.

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First, hotels or function halls register on the website as users. After logging into the system, they can provide information about the available leftover food they wish to donate.

Second, orphanages register in the system and request food when needed. This helps ensure that food is delivered to places where it is required.

Third, delivery boys are responsible for collecting food from the donor locations and delivering it to the registered orphanages.

The administrator manages the entire system by approving user registrations, activating accounts, and monitoring all activities.

SYSTEM DESIGN : The system uses web technologies such as HTML, CSS, JavaScript, Java (JSP), and MySQL database for data storage and management. This method ensures proper communication and coordination between all users.

IV. IMPLEMENTATION

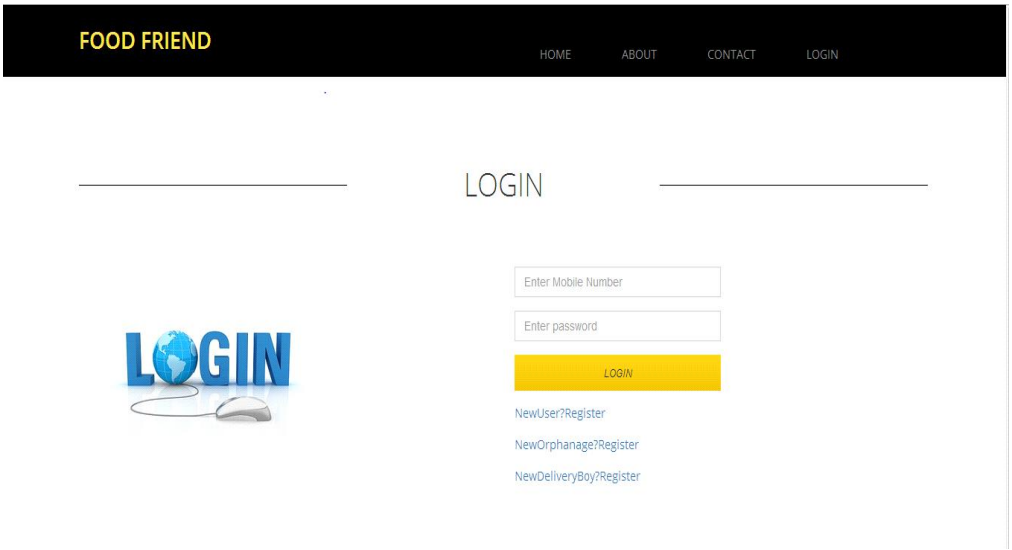
The FOODFRIEND system is implemented using web development technologies. The frontend of the application is developed using HTML, CSS, and JavaScript to create user-friendly web pages. The backend is developed using Java Server Pages (JSP) which handles the server-side processing.

The MySQL database is used to store information such as user details, food donation records, delivery details, and login information. Apache Tomcat is used as the web server to run the application.

The system consists of different modules including the user module, orphanage module, delivery boy module, and admin module.

Each module has specific functions that allow users to interact with the system. Login authentication and database connectivity are implemented using JDBC drivers. This ensures secure access to the system and proper management of data. Through this implementation, FOODFRIEND provides an effective platform for reducing food wastage and helping needy people by distributing excess food.

V. RESULT



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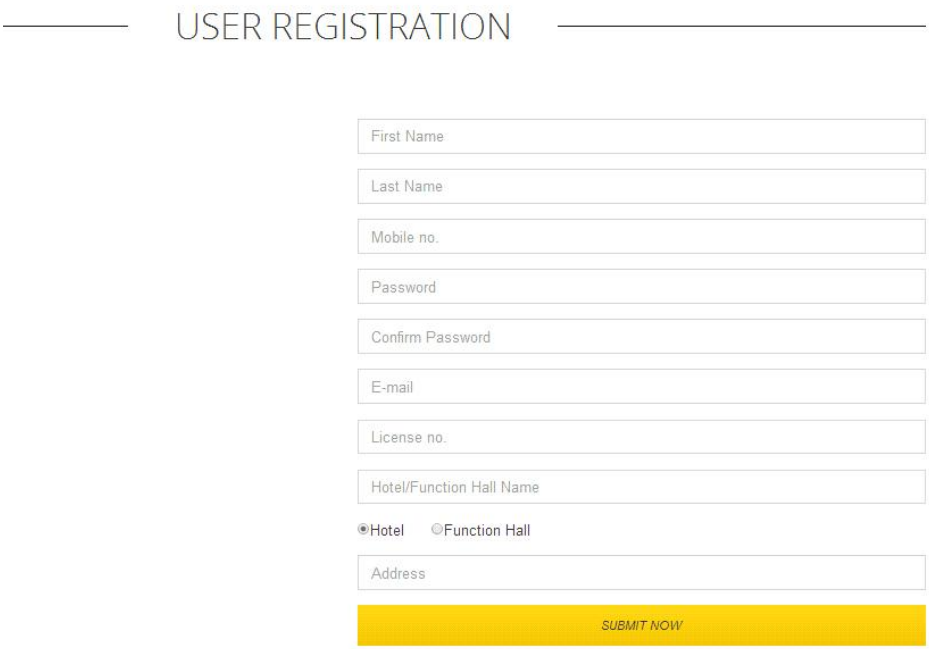

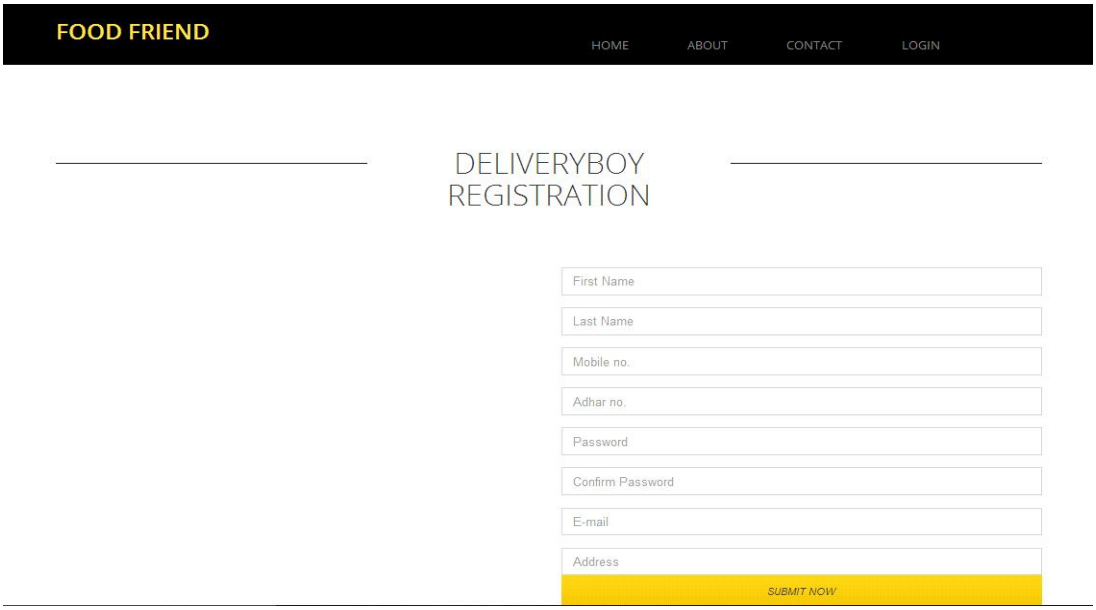

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www.ijarsct.co.in
DOI: 10.48175/IJARSCT-31646

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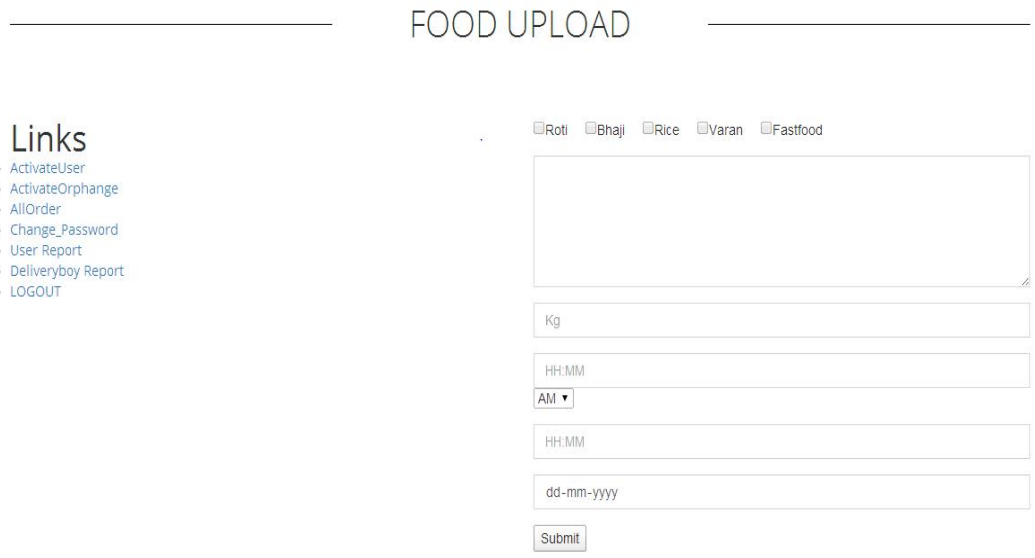

Feature	Result
User Registration	**Hotels or function halls can register and donate leftover food.**
Orphanage Registration	**Orphanages can register to receive food donations.**
Delivery Boy Module	**Delivery personnel collect food from donors and deliver it to orphanages.**
Login System	**Different users (admin, user, delivery boy, orphanage) can securely access the system.**
Food Information Upload	**Donors can add details about available food for donation.**
Admin Management	**Admin can monitor users and manage system activities.**
Database Storage	**All user and food donation information is stored securely in the database.**
Online Platform	**Provides an easy way to connect food donors with needy organizations.**
Food Waste Reduction	**Helps redu**

ANALYSIS :

FOODFRIEND connects donors, delivery personnel, and orphanages to reduce food wastage. It allows hotels and events to donate leftover food, which delivery boys deliver to orphanages. The system is easy to use, cost-effective, and helps needy people while keeping records of donations.

Enhancement	Expected Impact
Mobile Application (Android/iOS version)	Increases accessibility and user engagement; more users can donate or request food easily in real-time
GPS Tracking for Delivery	Improves delivery efficiency and transparency; ensures faster and accurate food distribution
Real-time Notifications (SMS/Email)	Keeps users, delivery boys, and orphanages updated instantly about food availability and delivery status

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Enhancement	Expected Impact
Food Quality Monitoring System	Ensures safe and hygienic food delivery; builds trust among users and organizations
AI-based Food Demand Prediction	Reduces wastage by predicting demand and supply patterns; improves planning
Online Payment/Donation Integration	Enables financial contributions along with food donation; increases support for NGOs/orphanages
Rating & Feedback System	Helps maintain service quality; users can rate delivery and food quality
Multi-language Support	Expands reach to diverse users across different regions
Cloud Database Integration	Enhances scalability, data security, and performance
Admin Analytics Dashboard	Provides insights on food distribution, wastage reduction, and user activity for better decision-making
NGO/Charity Organization Integration	Expands network and improves distribution efficiency
Automated Scheduling System	Allows users to schedule pickups in advance; improves coordination
Image Upload Feature for Food	Helps orphanages verify food condition before accepting
Chat Support System	Enables direct communication between users, delivery staff, and orphanages
Security Enhancements (Encryption & Authentication)	Protects user data and prevents unauthorized access

ANALYSIS :

FOODFRIEND is an online platform that connects food donors, delivery personnel, and orphanages to reduce food wastage. It allows hotels and function halls to donate leftover food easily, which is then collected and delivered by delivery boys to needy people. The system provides secure login for all users, maintains proper records in the database, and ensures smooth coordination. Overall, it is a simple, cost-effective solution that helps reduce food waste and supports poor and orphanage communities

VI. CONCLUSION

The **FOODFRIEND** system provides an effective solution to reduce food wastage and help needy people. By connecting hotels, function halls, delivery personnel, and orphanages through an online platform, the system ensures that excess food reaches those who need it the most. The project is easy to use, maintains proper records, and supports social welfare by promoting responsible food management. With further enhancements, FOODFRIEND can expand to serve more communities and improve food distribution efficiency.

VII. ACKNOWLEDGMENT

We would like to express our sincere Gratitude to all those who supported and guided us throughout the development and completion of this Food Bestie Project

First and foremost, we are deeply thankful to our project guide Mr.Vhanale.G.S. whose expertise, Encouragement and insightful feedback were instrumental in shaping this project. your constant support and valuable suggestions have been greatly appreciated at every stage of this work.

we aslo extend our heartfelt thanks to the information technology department for providing necessary infrastructure .

Our appreciation goes to the faculty members and peers who participated in testing the platform and provided constructive feedback.

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