**LAGNI – A Food Waste Donation App**

1. **Introduction**
   1. **Project Definition**

"Lagni" is a mobile application designed to combat food waste by connecting food donors with NGOs and individuals to efficiently redistribute surplus food to communities in need. The platform fosters social responsibility, allowing users to easily schedule and coordinate food donations while promoting a sustainable and responsible approach to food distribution. The system features donor and rider modules, along with an admin interface, ensuring secure authentication, data protection, and efficient dispute resolution. Utilizing well-established mobile app development technologies, the project demonstrates technical, operational, and economic feasibility. "Lagni" aims to reduce food waste, contribute to community well-being, and make a positive impact on individuals facing food insecurity.

* 1. **Objectives**
* **Efficient Food Redistribution:** Create a streamlined and user-friendly mobile application that facilitates the efficient and timely redistribution of surplus food from donors to communities in need, thereby reducing food waste.
* **Promote Social Responsibility:** Encourage individuals and businesses to actively participate in social responsibility by providing a platform that enables them to contribute surplus food to less privileged individuals and communities facing food insecurity.
* **User-Friendly Experience:** Develop intuitive interfaces for both donors and riders, ensuring ease of use in scheduling, tracking, and coordinating food donations, with the goal of encouraging widespread participation.
* **Real-Time Tracking and Coordination:** Implement real-time tracking features for riders to optimize delivery routes and confirm successful food deliveries promptly, enhancing the overall effectiveness of the surplus food redistribution process.
* **Record-Keeping and Accountability:** Enable donors to track their donation history, fostering a sense of accountability and recognition for their contributions while maintaining a transparent and reliable record of all transactions.
* **Technology-Driven Solutions:** Leverage mobile app development technologies and frameworks to create a robust, secure, and scalable system that aligns with contemporary standards and practices, ensuring a reliable and future-proof solution.
* **Economic and Social Impact:** Strike a balance between development costs and the long-term benefits of reducing food waste, contributing to social welfare, and addressing the critical issue of food insecurity in communities.
* **Community Well-Being:** Promote the overall well-being of communities by providing a dependable and consistent channel for surplus food distribution, positively impacting the lives of individuals facing food scarcity.
* **Security and Data Protection:** Implement robust encryption mechanisms, secure authentication methods, and access controls to safeguard user data, ensuring the privacy and security of all participants involved in the surplus food redistribution process.
* **Continuous Improvement and Maintenance:** Design the system with a modular structure to facilitate easy updates, bug fixes, and the addition of new features, ensuring the ongoing maintainability and relevance of the "Lagni" application.
  1. **Scope of the System :**

"Lagni" is a comprehensive food waste donation application that facilitates the efficient transfer of surplus food from donors to communities in need. The system's primary goal is to bridge the gap between surplus food and those who require it. It includes features for food donation scheduling, rider coordination. "LAGNI" aligns with the principles of social responsibility and strives to make a positive impact on communities facing food insecurity.

* 1. **General Description :**
     1. **Overall Description :**

“Lagni" is a user-friendly mobile application that connects food donors with NGOs for the purpose of redistributing surplus food to communities in need. The application provides a seamless and secure platform for users to schedule food donations, and contribute to reducing food waste. By fostering collaboration between donors and riders, "LAGNI" transforms surplus food into a valuable resource for those facing food insecurity.

* + 1. **Feasibility Study**