**Business Requirement Document**

**Project Overview:**

**Project Name:** FlexBin

**Purpose:**

The purpose of this application is to provide a comprehensive waste management solution for both households and commercial/industrial entities. The app will facilitate waste collection, scheduling, and subscription management, offering different subscription plans with varying features and benefits.

**MAIN FEATURES ---->**

1. **User Authentication and Authorization:**

1. User Registration:

- Users can sign up using their email and password.

- Option to sign up using Google credentials or other social media platforms.

2. User Login:

- Users can log in using their email and password.

- Option to log in using Google credentials or other social media platforms.

1. **Subscription Management:**

1. Subscription Plans:

- Free Plan: Normal household waste collection daily, no on-demand service.

- Commercial Plan: Daily waste collection for commercial entities, on-demand service with basic fees.

- Industrial Plan: On-demand waste collection for heavy industrial waste.

2. Subscription Signup:

- Users select a subscription plan during signup.

- Option to change subscription plans in the account management section.

3. Customization:

- Commercial and Industrial users can customize pickup schedules.

- 24x7 support for on-demand waste collection.

1. **Account Management:**

1. Manage Account:

- Users can manage their account information.

- Change contact details.

2. Change Subscription:

- Users can upgrade, downgrade, or cancel their subscription.

- Users can switch between subscription plans.

3. Payment Details:

- Users can manage and update their payment details.

- Option to set up auto-debit for subscription fees.

1. **Waste Collection Details:**

1. Visibility of Waste Collected:

- Users can view the amount of waste collected from their premises.

- Graphical representation with filters for weekly, monthly, quarterly, and yearly views.

2. Type of Waste Collection:

- Paid subscribers can view the composition of waste collected.

- Data on the types of waste collected and their percentages.

3. Wallet and Rewards:

- Users receive wallet coins for waste collected and proper waste segregation.

- Wallet coins can be used for shopping at partner stores or claiming vouchers.

4. Wallet Transactions:

- Users can view transactions in their wallet, including earned coins and redeemed rewards.

1. **Reporting and Analysis:**

1. Graphical Reports:

- Users can generate reports on waste collection and composition.

- Graphs and charts for better visualization.

2. Reward Summary:

- Users can view a summary of earned rewards and coins.

1. **Additional Features:**

1. Partner Integration:

- Integration with partner stores for shopping using wallet coins.

2. Customer Support:

- 24x7 customer support for any issues or inquiries.

3. Notification Preferences:

- Users can set preferences for notifications related to waste collection, rewards, and subscription updates.

1. **Compliance and Security:**

1. Privacy and Security:

- Adherence to data protection regulations.

- Secure storage of user data and payment information.

1. **Future Enhancements:**

1. Gamification:

- Consider adding gamification elements to encourage better waste management practices.

2. Community Engagement:

- Incorporate features for community engagement, such as challenges and forums.

**Conclusion:**

This Business Requirement Document outlines the key features and functionality of the Waste Management App, focusing on user authentication, subscription management, account management, waste collection details, reporting, and additional features. The app aims to provide a user-friendly experience while promoting responsible waste management practices.