

## **ABSTRACT**

Effective waste management is crucial for environmental sustainability and public health. This paper explores various strategies and innovations in waste management, including reduction, reuse, recycling, and disposal methods. Additionally, it discusses the role of circular economy principles in promoting resource efficiency and minimising waste generation.

By implementing comprehensive waste management practices, societies can mitigate environmental pollution, conserve natural resources, and create a cleaner, healthier future for all. By addressing the limitations of existing waste management practices and digital platforms, the Waste Trade Hub aspires to redefine the waste management landscape. This project not only seeks to optimize current processes but also introduces a sustainable and user-friendly solution that aligns with the principles of a circular economy. The process begins from the client who is in the need of paper, plastic, manure and other waste. It is proposed to design a website with two logins, one for the client and the other for the depositor.

The Depositor who collect the waste from public and sell it through the website and update the stocks regularly. The clients who are in need of the waste can search their nearby depositor and can buy through the website. The primary objective of the platform is to provide a comprehensive, efficient, and environmentally conscious solution for waste generators, collectors, and distribution centers.

The Waste Trade Hub envisions a future where technology empowers individuals and organizations to actively contribute to the circular economy and its potential to redefine waste management practices for a more sustainable and eco-conscious future.