

ABSTRACT

The increasing menace of plastic pollution necessitates innovative solutions that promote recycling and reuse. PACH emerges as a dynamic service-based app, leveraging the principles of recycle and reuse to tackle this pressing environmental challenge. Through a unique Hyperlocal On-Demand (HLOD) business model, this Proposed System connects common individuals possessing dry waste, predominantly plastics and clothes, with recyclers eager to repurpose these materials into new bags and their variants. This innovative approach not only reduces plastic pollution but also generates substantial income streams, benefiting all stakeholders involved. The quad-win income cycle ensures that common individuals, recyclers, street scrap collectors, and service providers all reap rewards, fostering a sustainable ecosystem. Moreover, by seamlessly integrating e-commerce functionalities, PACH transforms into a platform where recycled bags are sold, further amplifying its impact. With a scalable and replicable model, PACH holds promise in not only mitigating plastic pollution but also in revolutionizing the waste management landscape. The proposed system embodies an ingenious fusion of technology and sustainability, poised to make a significant difference in our fight against plastic pollution.