Smart Waste Management System for Metropolitan Cities

Customer Journey

TEAM ID:PNT2022TMID52032

Browsing, booking, attending, and rating a local city tour	Entice How does someone initially become aware of this process?	Enter What do people experience as they begin the process?	Engage In the core moments in the process, what happens?	Exit What do people typically experience as the process finishes?	Extend What happens after the experience is over?
Steps What does the person (or group) typically experience?	Collect the Garbage IoT based garbage monitoring system is an innovative project idea for maintaining the clean environment of the city. Differentiate the waste material IoT powered smart management solutions focus on improving the total efficiency of waste collection and recycling. A notification is a way we can send alarms or other kinds of information to users.	Easy sorting of wastes Increasing in recycling of wastes Better areas for landfill	Reuse Recycle Control of garbages Control of garbages Smart waste bins take human error out of the initial sorting process, making material process, making material processing faster and easier for recycling facilities. The proposed system uses sensors for identification of personnel and measuring garbage level.	Innovations in waste reduction technologies allow us to better monitor, prevent, and manage our waste. Digital technologies can be found in all steps of the waste management process, with some already in widespread use. To promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment.	Smart waste management is about using technology and data to create a more efficient waste industry. Clean environment leading to clean city The deployment of effective waste collection results in a cleaner city, and a cleaner city means a better quality of life for citizens.
Interactions What interactions do they have at each step along the way? People: Who do they see or talk to? Places: Where are they? Things: What digital touchpoints or physical objects would they use?	checking the status of sensor sensing the level of bins application to of send feedback	internet is neccesary to use the webapp the device may send wrong information the waste feel easy to monitor the waste	checking the status sensing the level of bins c sensor feedback	all human produce municipal solid overflows monitoring waste garbagebin overflows monitoring by the ultrasonic sensor urbanwaste collection is expendicture on government budgets	it reduces the fuel cost for travelling sensor can be damaged when collecting garbage
Goals & motivations At each step, what is a person's primary goal or motivation? ("Help me" or "Help me avoid")	make waste free environment well maintained clean india	the environment to support the economic development and superior quality of life waste can be solid, different methods of disposal disposal	each type has different types of management industral, biological waste or organic and biomedical waste its reduce the dangerous effect	development and improvement of clean technology reduce ,recycle and reuse reduce ,recycle and reuse encourage the adoption of sustainable production and conception patterns	a big part of waste management deals with municipal solid waste waste well maintained area
Positive moments What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?	Practice is highly lucrative. Keep the environment clean and fresh.	Saves the Earth and conserves energy. Reduces environmental pollution.	Waste management will help you earn money. enchance safety	Time saving reduse harmfull waste water	Optimization of resources become a smart cit
Negative moments What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?	increasing cost of the dustbin Needs more Global buy-in	The sites are often dangerous soil contamination	air contamination water contamination	jobless increasing cost of difficult the dustbin	difficult to maintain the dustbin human damage
Areas of opportunity How might we make each step better? What ideas do we have? What have others suggested?	Solar-powered trash compactor Image-based trash can sensors	Waste management apps Smart Waste Bins	Waste Level Sensors Al Recycling Robots	Garbage Truck Weighing Mechanisms Instant payment in return for e-waste	Pneumatic Waste Pipes sustainability development