

Smart Waste Management System for Metropolitan Cities

Customer Journey

Team id:PNT2022TMID04566

SCENARIO					
<div>Browsing, booking, attending, and rating a local city tour</div>	<div><div></div><div>Entice</div><div>How does someone initially become aware of this process?</div></div>	<div><div></div><div>Enter</div><div>What do people experience as they begin the process?</div></div>	<div><div></div><div>Engage</div><div>In the core moments in the process, what happens?</div></div>	<div><div></div><div>Exit</div><div>What do people typically experience as the process finishes?</div></div>	<div><div></div><div>Extend</div><div>What happens after the experience is over?</div></div>
<div><div></div><div>Steps</div><div>What do the person (or group) typically experience?</div></div>	<div><div>Collect garbage</div><div>Separate Waste</div><div>Alert message send to control room</div><div>View details on trashcans</div><div>Download or login the web application</div><div>Monitor the filled level of bins</div><div>Update the sensed data to database</div><div>Workers are send to clear the bins</div></div>	<div><div>Separate collection and sorting</div><div>Expanding the recycling industry</div><div>Reliable collection and better landfill sites</div></div>	<div><div>Extensive Uncontrolled dumping</div><div>Prevention</div><div>Preparation of reuse</div><div>Recycling</div></div>	<div><div>Fully digital and easy infrastructure</div></div>	<div><div>They feel clean management system</div><div>Clean India</div></div>
<div><div></div><div>Interactions</div><div>What interactions do they have a teach step along the way?<ul style="list-style-type: none">■ People: Who do they see or talk to?■ Places: Where are they?■ Things: What digital touchpoints or physical objects would they use?</div></div>	<div><div>All human produce solid waste</div><div>garbage bin overflows monitoring by the ultrasonic sensor</div></div>	<div><div>checking the status of sensor</div><div>sensing the level of bins</div></div>	<div><div>Website to monitor the trashcan</div><div>analyze status of dustbin</div></div>	<div><div>internet is necessary to use the web app</div><div>The device may send wrong information</div><div>feel easy to monitor the waste</div></div>	<div><div>it reduces the fuel cost for travelling</div><div>sensor can be damaged when collecting garbage</div></div>
<div><div></div><div>Goals & motivations</div><div>At each step, what is a person’s primary goal or motivation? (“Help me...” or “Help me avoid...”)</div></div>	<div><div>clean India</div><div>make waste free environment</div><div>protection of public health</div></div>	<div><div>development and improvement of clean technology</div><div>reduce recycle and to REUSE</div><div>create pollution free environment</div></div>	<div><div>the environment to support the economic development and superior quality of life</div><div>waste can be liquid or gases</div><div>each tyoe has different methods of disposal</div></div>	<div><div>each type has different types of management</div><div>industrial, biological waste or organic and biomedical waste</div><div>its reduce the dangerous effect</div></div>	<div><div>a big part of waste management deals with municipal solid waste</div><div>well maintained area</div></div>
<div><div></div><div>Positive moments</div><div>What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?</div></div>	<div><div>become a smart city</div><div>enhance safety</div><div>reduce man power</div></div>	<div><div>effective way to keep the clean city</div><div>optimization of resources</div></div>	<div><div>quality control improvement and monitoring</div><div>exchange of waste</div><div>shipping to the point of use</div></div>	<div><div>reduce harm full waste water</div><div>zero waste</div><div>reduce the use of packaging material</div></div>	<div><div>protect the environment</div><div>increase the fertility of the soil</div></div>
<div><div></div><div>Negative moments</div><div>What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?</div></div>	<div><div>Jobless</div><div>increasing cost of the dustbin</div></div>	<div><div>soil contamination</div><div>water contamination</div><div>air contamination</div></div>	<div><div>human damage</div><div>harm towards animal and marine life</div></div>	<div><div>loss of habitats</div><div>in case of any short circuit</div><div>sensor affect by water</div></div>	<div><div>In case of any malfunction</div><div>some cloud warning issue</div></div>
<div><div></div><div>Areas of opportunity</div><div>How might we make each step better? What ideas do we have? What have others suggested?</div></div>	<div><div>smart waste bins</div><div>waste level sensor</div></div>	<div><div>AI recycling robots</div><div>garbage truck weighing mechanism</div></div>	<div><div>pneumatic waste pipes</div><div>solar powered trash compacters</div></div>	<div><div>E-waste kiosk</div><div>recycling apps</div></div>	<div><div>waste management program</div><div>sustainability development</div></div>