

PROJECT TITLE: SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

TEAM ID:PNT2022TMID38568

PROJECT DESIGN PHASE-I - SOLUTION FIT

Define the fit of the solution to the customer needs	<p>1. CUSTOMER SEGMENT(S)</p> <p>The Municipal corporate employees who are responsible for waste collection are our users.</p>	<p>6. CUSTOMER CONSTRAINTS</p> <ul style="list-style-type: none">• Rough action of the user may damage the sensor• The product may have short lifespan• Proper network connection required• The one time cost of installation will be higher	<p>5. AVAILABLE SOLUTIONS</p> <p>The maintenance and replacement of sensors is simple.By proper maintenance the lifespan of the product can be increased.it further reduces manpower requirements to handle the garbage collection process. Less amount of fuel consumed by vehicles because of optimal route planning.</p>	Explore the AS, differentiate
	<p>2. JOBS-TO-BE-DONE / PROBLEMS J&P</p> <p>Monitoring amount of waste present. Alerting the respective people incharge of this. Provide shortest and a fastest way for the collection of the waste.</p>	<p>9. PROBLEM ROOT CAUSE</p> <p>Municipal solid waste management id critical concern and needs attention.The rapid urbanization and industrialization has led to increased solid waste generation,about 2.1 billion tonnes of municipal solid waste generated annuallyaround the globe. The main objective is maximize waste collection and optimize the work formunicipal corporation.</p>	<p>7. BEHAVIOUR BE</p> <p>Find the required sensors based on the requirement and get the expected results.</p>	

<div>3. TRIGGERS<div>TR</div><p>The efficiency of the solution and the change to a better environment which increases their profit.</p></div> <div>4. EMOTIONS: BEFORE / AFTER<div></div><p>Provides a better environment to the people living around the areas of the bins because it alerts the respective persons to take action and eliminates the possibility of overflow of the bins and hence cleanliness is always maintained.</p></div>	<div>10. YOUR SOLUTION<div>SL</div><p>Our solution is to provide a smart waste management system where sensors are fitted inside the dustbins which collect the waste in the locality and alert the respective people to collect and segregate the waste. The system also provides route planning for the collection of the waste</p></div>	<div>8. CHANNELS of BEHAVIOUR<div>CH</div><div>8.1 ONLINE</div><p>The customers can view the levels of the bins and shortest path routing.</p><div>8.2 OFFLINE</div><p>Customers need to process their regular waste collection techniques</p></div>
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