

IoT-based Smart Dustbin Management System



- Group - 4



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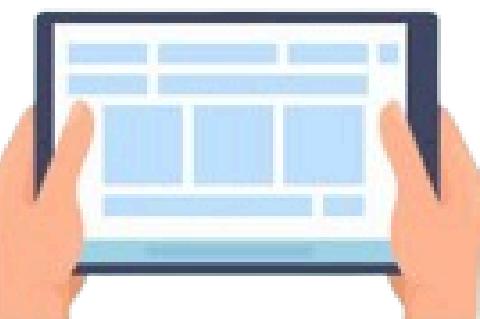
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**Sai Swetha
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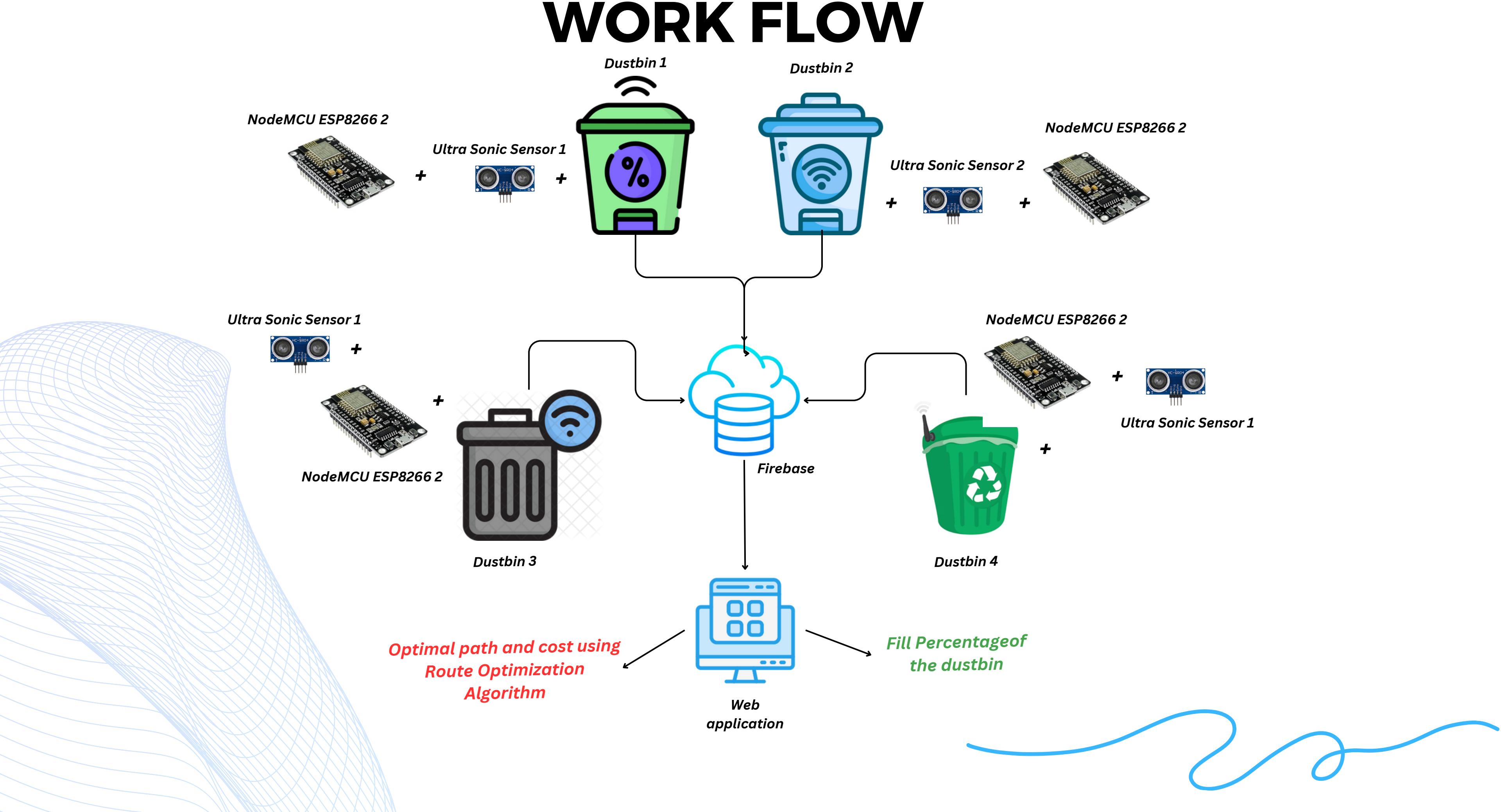
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INTRODUCTION

- Effective Waste Monitoring is crucial for maintaining a clean and healthy environment
- Poor waste management can cause health hazards and environmental pollution
- Traditional methods rely on fixed routes, lacking real-time adaptability which is inefficient and leads to increased operational costs
- Lack of real-time monitoring leading to delayed waste disposal



WORK FLOW



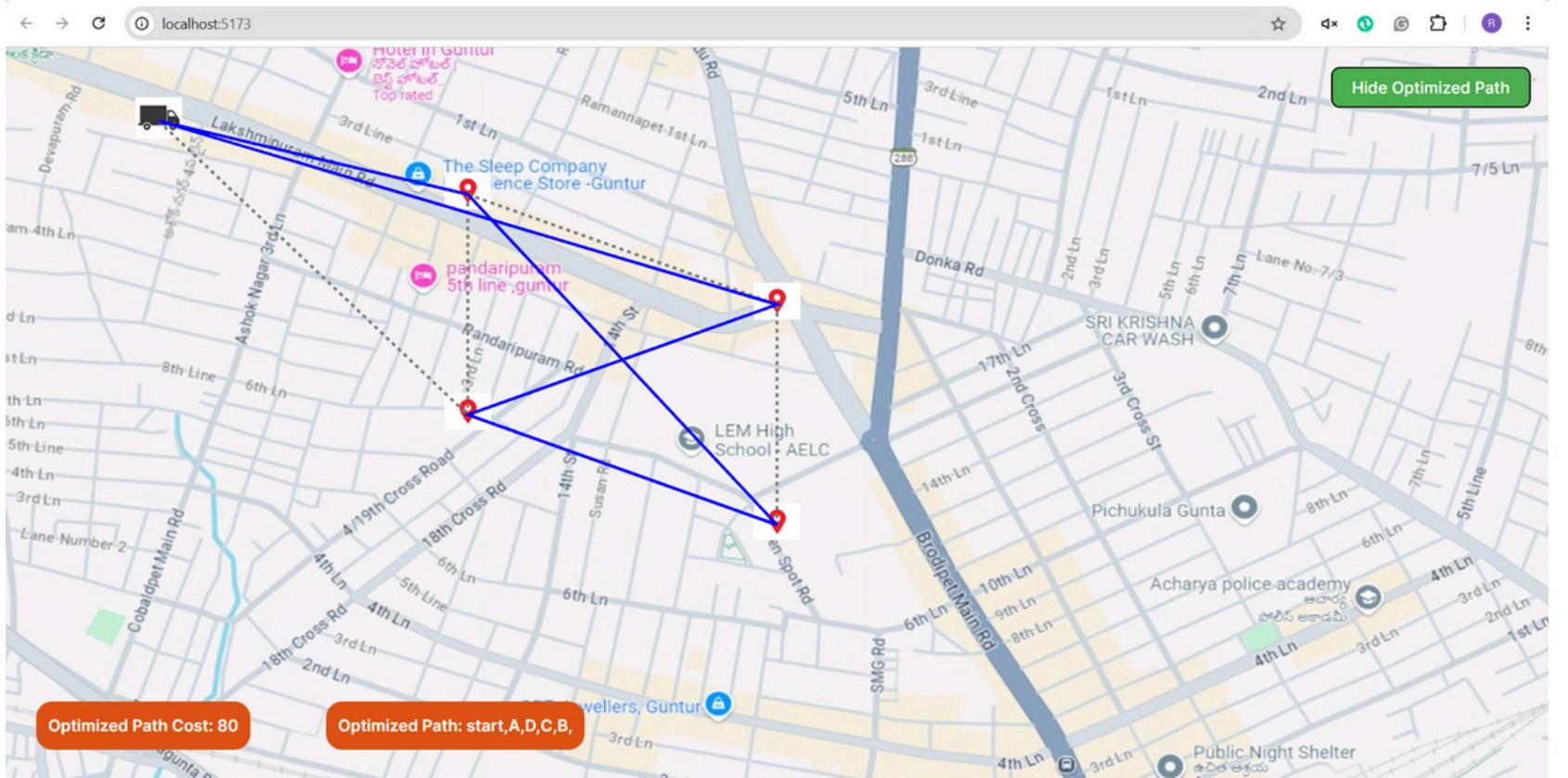
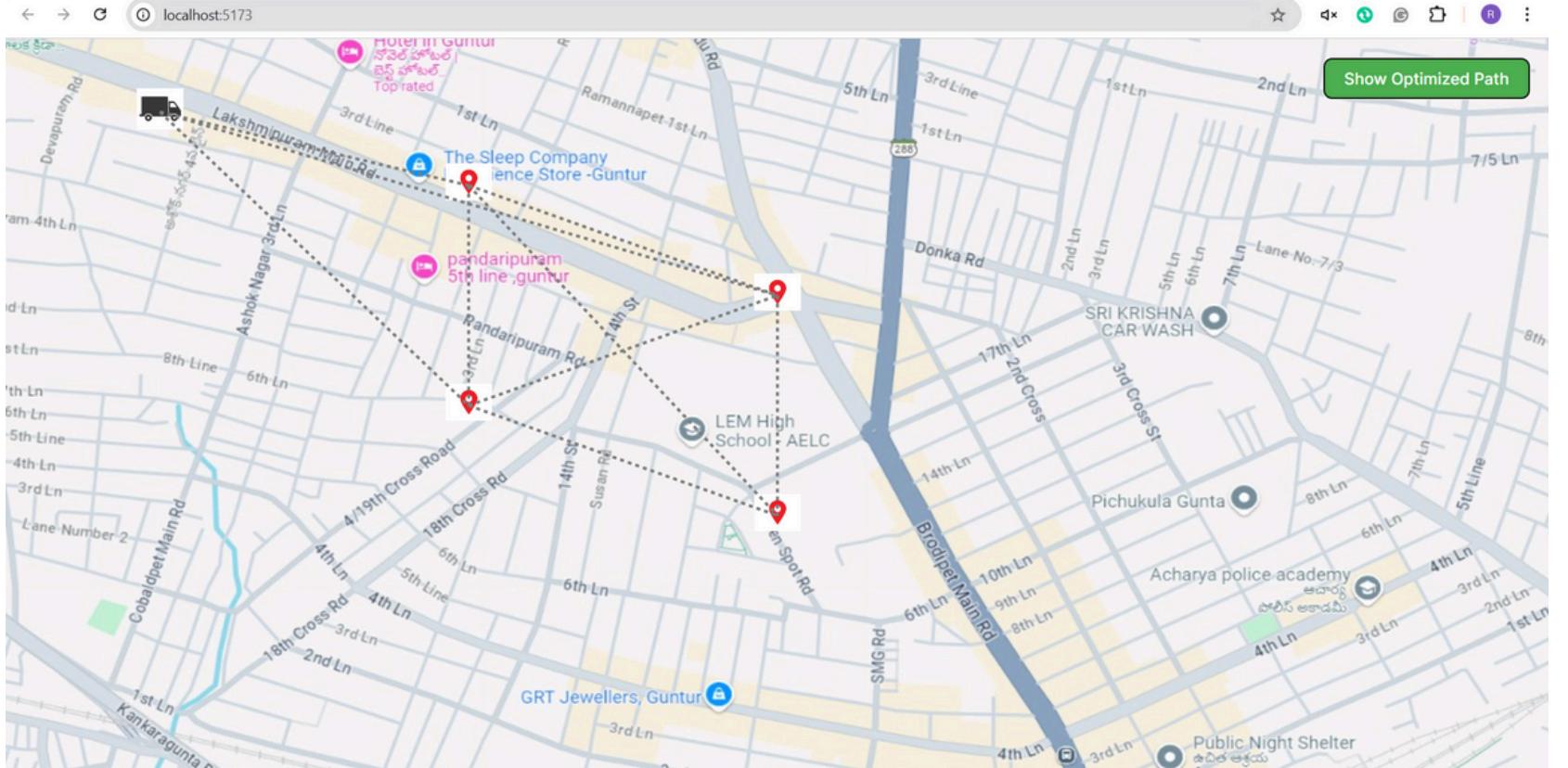
CURRENT WORK

- Implemented the logic and developed a system that includes 4 dustbins (For example purpose)
- Connected the system to a full-stack web application which helps the garbage collector for real-time monitoring
- Implemented a Route Optimization Algorithm, utilizing data collected from dustbins, specifically focusing on their fill levels and the distances between them.
- This approach optimizes route planning based on both the capacity status of each dustbin and their spatial arrangement, enhancing the efficiency of waste collection operations.

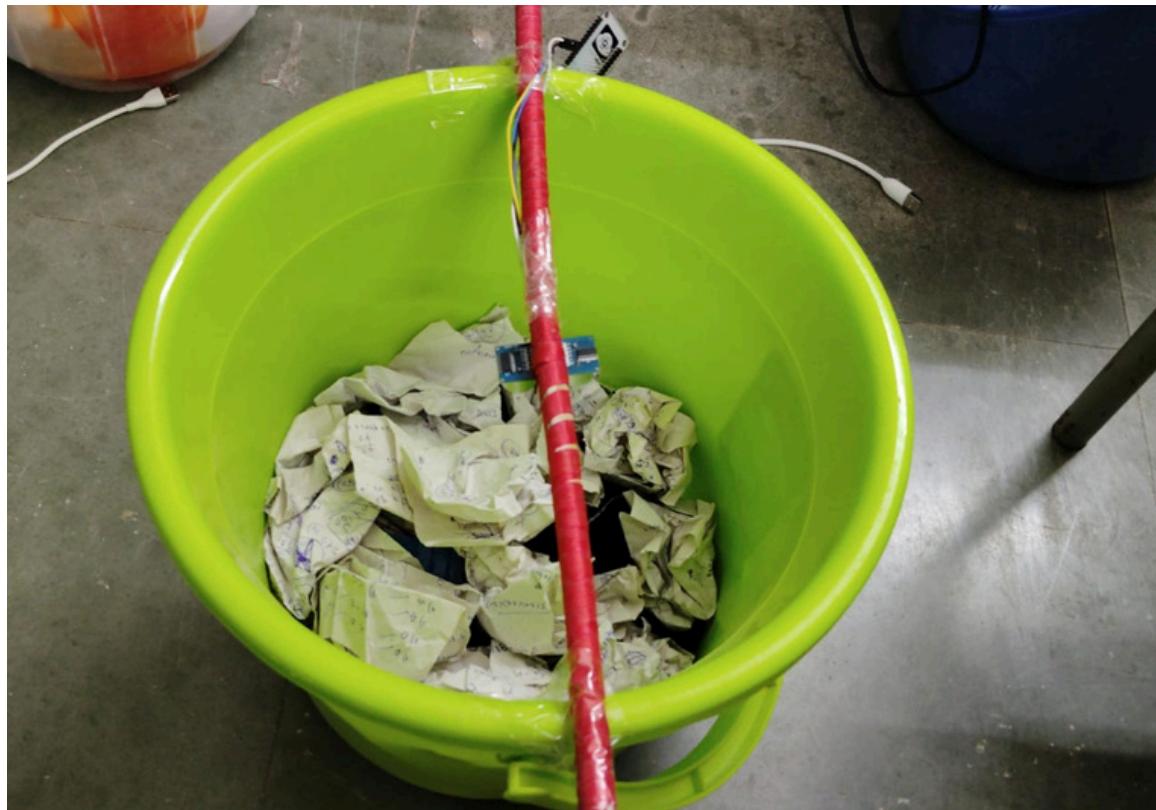


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Website images



Setup Images



THANK YOU

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