



**Baderia Global Institute of Engineering and  
Management, Jabalpur, Madhya Pradesh 482002**

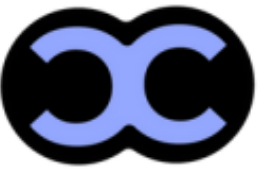


# **BrahmaX 1.0**

The Creation of Tomorrow

**BrahmaX 1.0**

[www.codecrax.com](http://www.codecrax.com)



## Profile Overview

- Theme – **GREEN TECH**  
( Designing sustainable solutions to protect and heal our planet.)
- Problem Statement Title- **Solid and E-Waste management and recycling innovations.**
- Team Name – **THE CRYPTIC CREW**



## E-Bin App

**Solution Overview: The "E-Bin App" simplifies e-waste recycling with geo-location, pickup scheduling, and rewards, promoting convenient and sustainable disposal.**

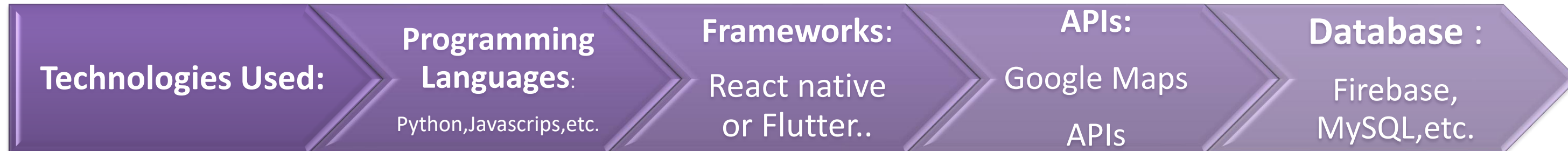
**Problem-Solving: This app tackles e-waste issues through seamless disposal, advanced recycling, and rewards.**

**Innovation : Convenient Pickup Scheduling, Connecting Citizens to Recycling Opportunities, Organized E-waste & Solid Waste Disposal.**



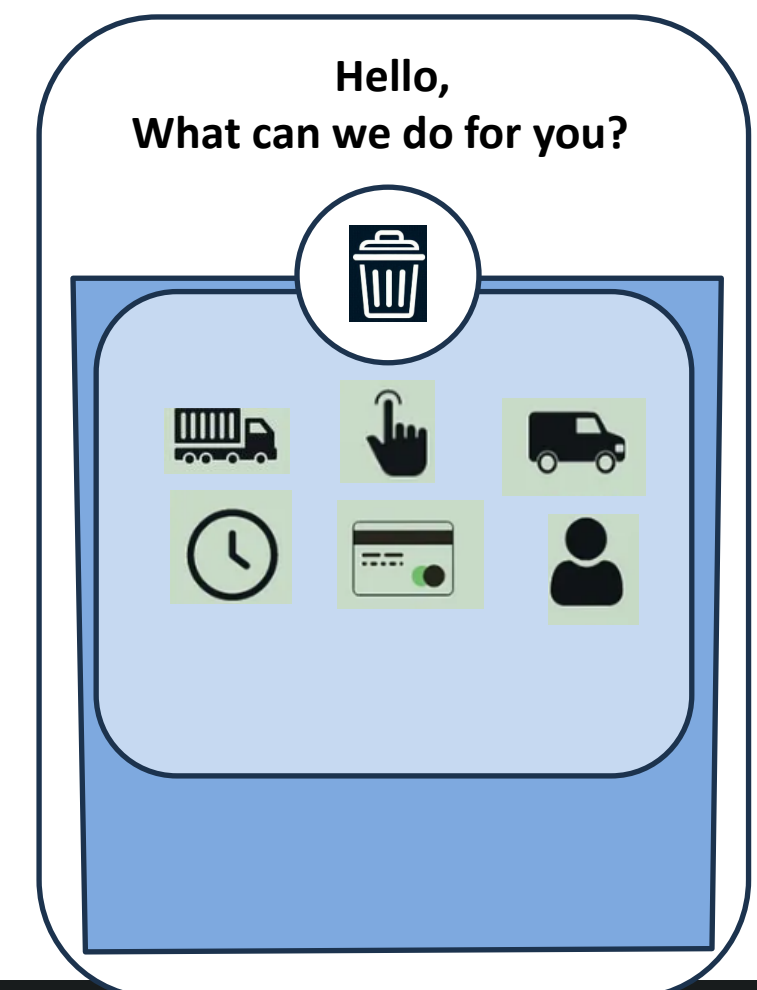
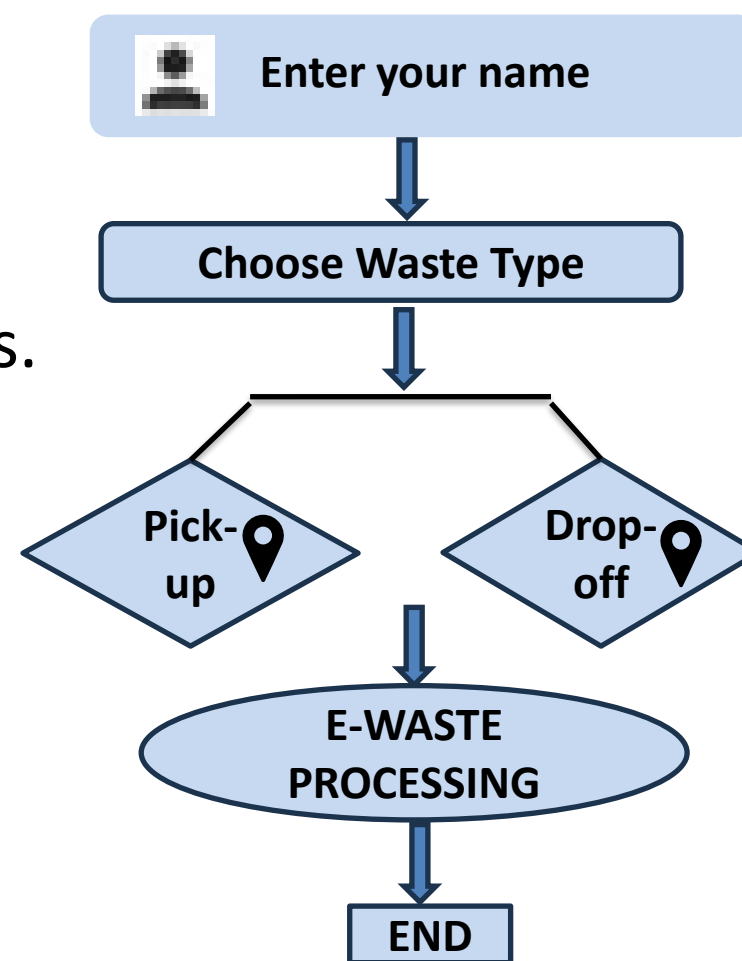


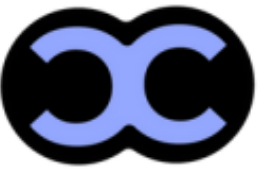
# Technical Approach



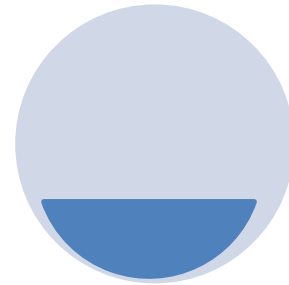
## Process Flow:

- User opens the app and **Registers**.
- Choose **waste type** and category.
- AI Waste identification.
- **Schedule pickup** or locate drop- off centers.
- Real time tracking and **Waste processing**.
- Impact metrics.
- Rewards and engagement.
- End.





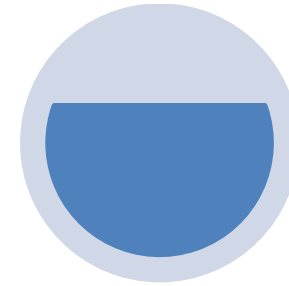
# FEASIBILITY AND VIABILITY



## Feasibility



- ☐ **Technical Feasibility:** Relies on readily available technology.
- ☐ **Operational Feasibility:** Tackles waste issues with engaging gamification features.
- ☐ **Financial Feasibility:** Cost effective.
- ☐ **Scalability:** Designed for expansion to large system and cities.



## Challenges & Risks



**Low Adoption Rates**



**Technical Issues**



**Partnership**

**Challenges**



**Financial Constraints**

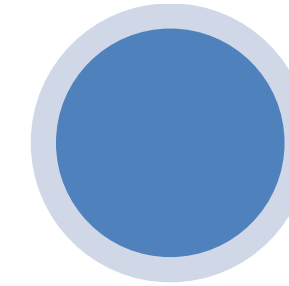


**Stakeholder**

**Resistance**



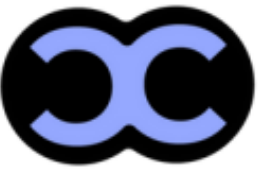
**Environmental Risks**



## Mitigation Strategies



- ☐ **Launch awareness campaigns**
- ☐ **Provide technical support ,**  
release regular update
- ☐ **Present clear value**  
propositions to recyclers,  
municipalities
- ☐ **Seek sponsorships, stabilizing**  
fund
- ☐ **Enforce strict protocols**



# IMPACT AND BENEFITS OF E-BIN APP...

## Target Audience Impact:

Empowering citizens to **recycle** effectively.



Streamlining **waste collection** for municipalities and recyclers.



Building partnerships with NGOs for **sustainable** practices.



## Key Benefits:

**Social**: Promotes community participation and awareness.

**Economic**: Generates revenue through recycled materials and cost-efficient waste management.

**Environmental**: Reduces landfill waste and boosts eco-friendly behavior.

## Future Scalability:

Potential for IoT integration and **AI-based sorting**.

Expansion to more cities with **global recycler collaboration**.





## REFERENCES

### 1. Official and Government Resources:

1. <https://globalewaste.org/> - E-waste-related data.
2. <https://www.india.gov.in/> - Local regulations and environmental guidelines.
3. <https://gauvinsgreen.com/blog/e-waste-collection-sorting-and-recycle/> - Showcases app designs for waste collection and disposal.

### 2. Educational and Research Databases:

1. <https://www.scholar.google.com/> - Scholarly articles on your topic.
2. <https://pubmed.ncbi.nlm.nih.gov/> - Science and technology papers.
3. <https://www.researchgate.net/> - Publications by academic professionals.

### 3. Environmental Organizations and Initiatives:

1. <https://www.greenpeace.com/> - Sustainability campaigns.
2. <https://ourworldindata.org/> - Infographics and detailed reports.

### 4. Technical and Design Websites:

1. <https://www.flaticon.com/> - Free icons for your presentation.
2. <https://www.unsplash.com/> - Free images for non-commercial use.