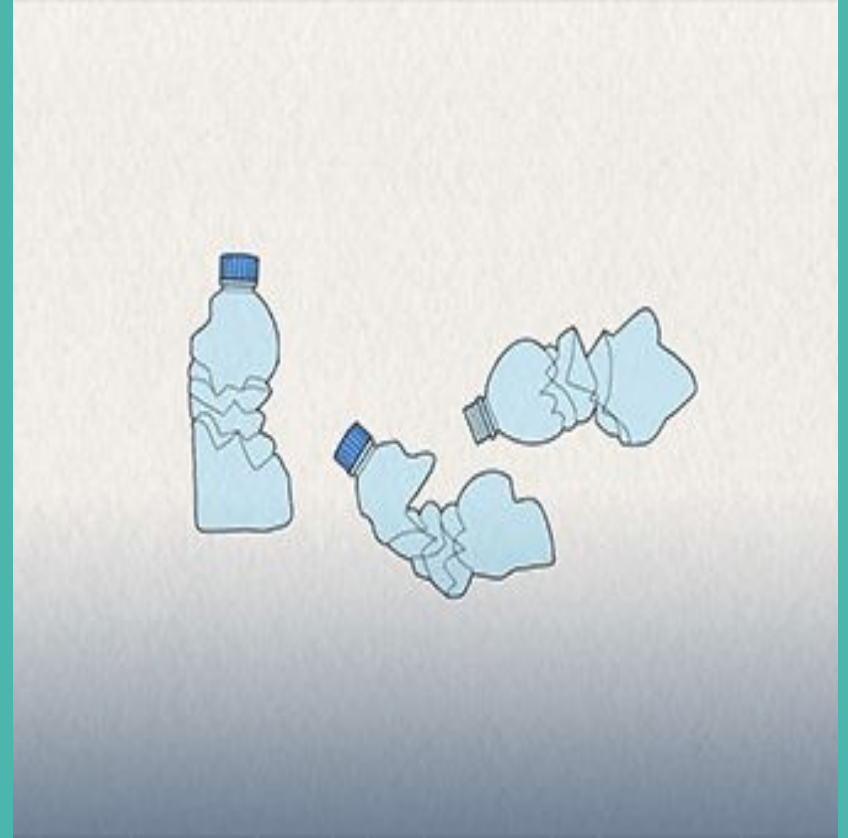# Recycler

Mohammad Bilal
Shubham Sardar
Vaishnavi Gawali

The Problem

Global plastic waste generation has more than doubled from **2020-2021 to 359 million tonnes.**

According to the Central Pollution Control Board report 2020, India recycles **around 60% of plastic waste.** The remaining 40% ends up in landfills, on the streets, clogging water bodies, etc.

The **major problem here is collecting these plastic bottles than recycling** it.

For every six bottles people buy, only one is recycled.For every six bottles people buy, only one is recycled. That leads to a big problem given the fact that water bottles do not biodegrade, but rather photodegrade. This means that it takes at least up to **1,000 years for every single bottle to decompose**, leaking pollutants into our soil and water along the way.

If these bottles are collected properly at one place Recycling can be done by Government or other Recycling industries.

Existing System

RecycleToCoin is Blockchain-based reward system to recycle plastic.

It oversees & supports the collection of used plastic from companies and consumers.

On recycling plastic users receive points that can be swapped for rewards like electronic gift cards or other rewards from the participating reward partners.

Proposed System

CONCESSION unique way to encourage Collectors where they will get Bill and Tax Concession from Govt for the same.

GPS LOCATION GPS to Send Notifications to Nearest Municipal Corporation.

BUSINESS POTENTIAL Selling these Plastics to Recycling Companies will generate good govt. income and passive income for collectors.

ECO-FRIENDLY FURNITURE Selling plastic to Plastic Manufacturers and promote Eco-Friendly Furniture produce from Plastic.
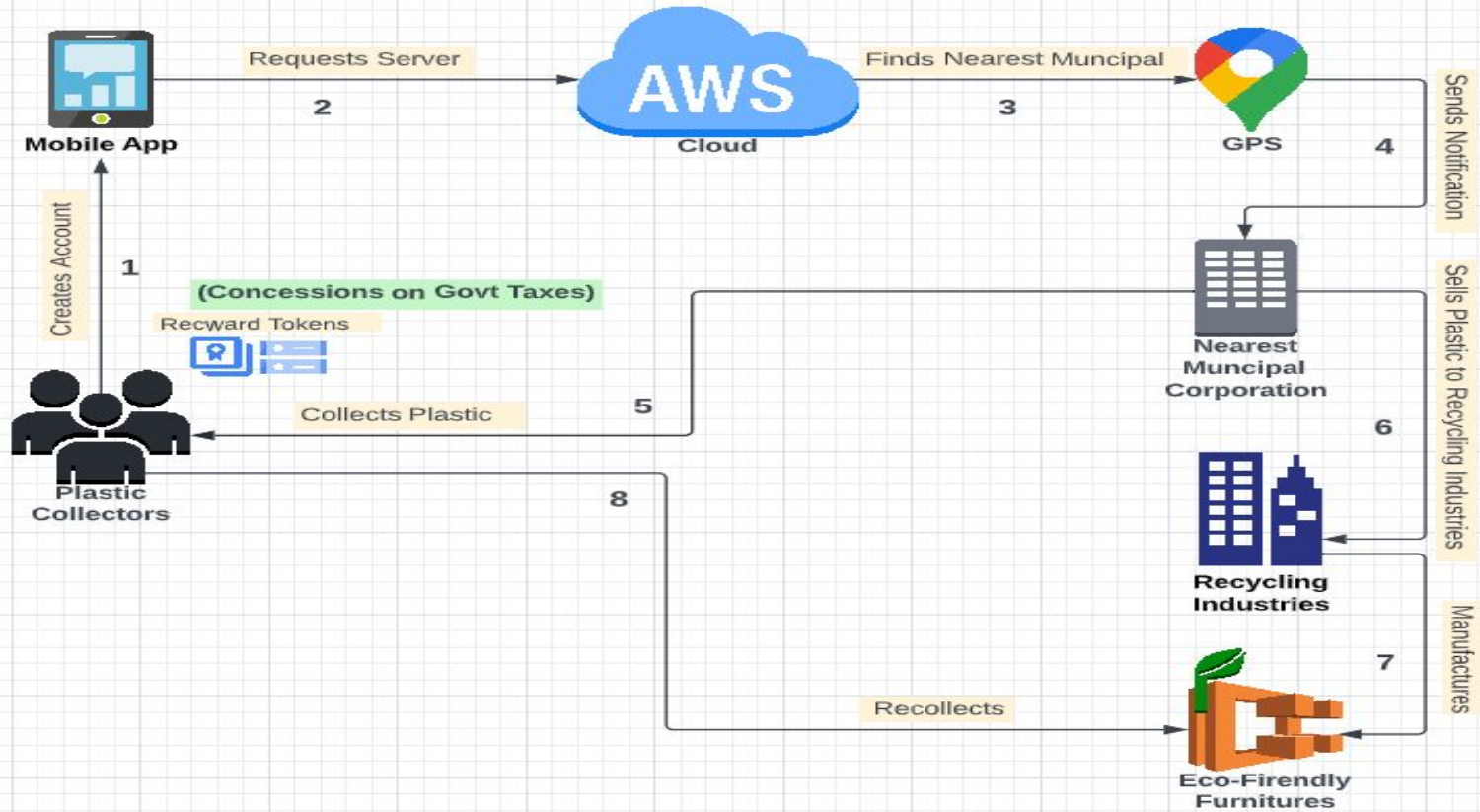
Proposed System

"Collecting Plastic is Harder than Recycling it!"
Design **centralised system** having entities like plastic collector and municipal bodies.

Encourage consumer to **collect the plastic** and **get rewards** from government in form of **tax and bill concessions.**
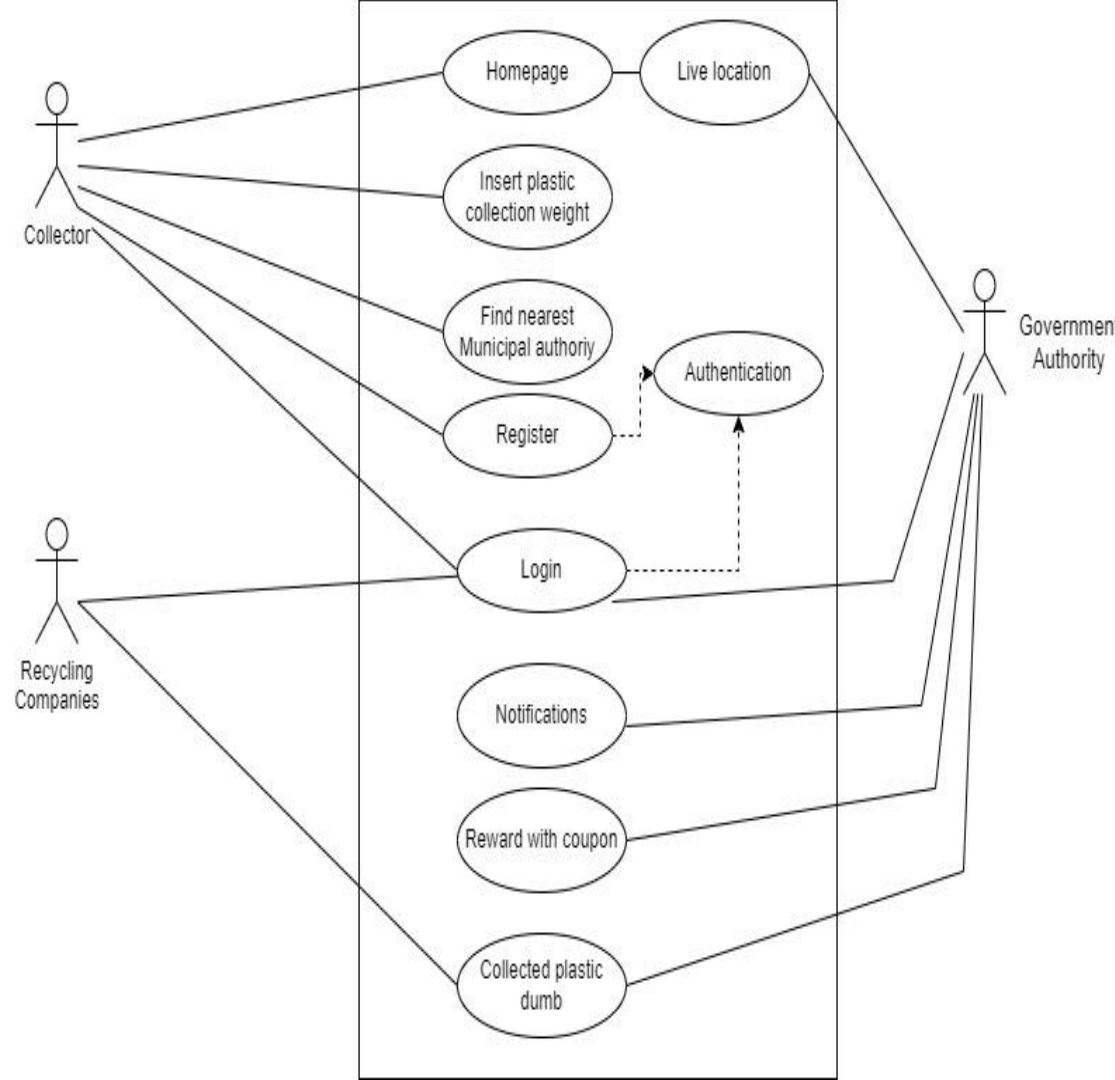
Consumer can **submit this collected plastic** to the municipal authorities via this application and thereby get rewarded.

Government would sell these collected Plastic to the Recycling Companies making **Eco-Friendly Products** and can generate Good Income.

Architecture Diagram

Use case Diagram

INNOVATIVENESS

All plastic at one place.

No banks involved.

Promoting arts and craft NGO.

Business potential

FUTURE SCOPE

- **Integrate More Govt Concessions**

    Integrating more Concession on Expensive Government would encourage more Individuals in Future.

- **Real-time Location**

    The bottle collection can be done more effectively with fetching their exact location of those bottles using the Barcode scanned.

- **Built-in Sensors**

    These Plastic Bottles can be made more self-reliable to detect if they are empty or not using the micro water level sensors.

Thank You