



Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation:

AICTE, MIC-Student Innovation

PS Code: SIH1487

Problem Statement Title: Student Innovation

Team Name: PotterHeads

Team Leader Name: Tejo Kaushal

Institute Code (AISHE): U-0149

Institute Name: Sardar Vallabhbhai National Institute of Technology, Surat

Theme Name: Clean & Green Technology

Idea/Approach Details

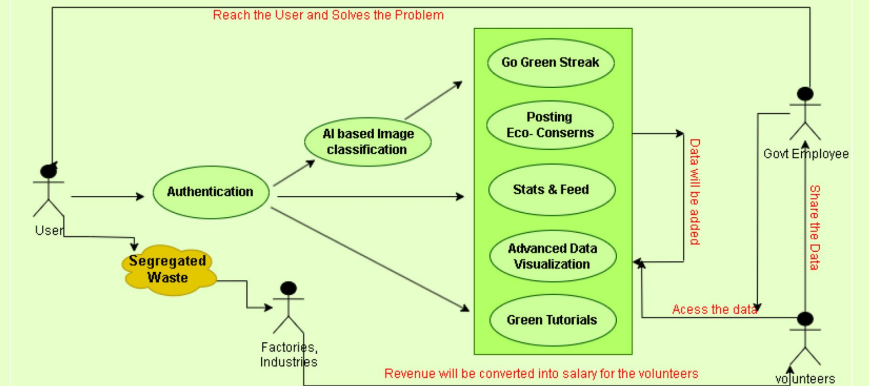
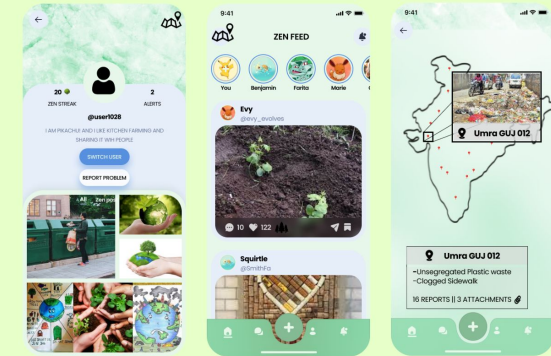
❏ **'EcoZen'** is a holistic solution for fostering a vibrant and eco-conscious community. It's accessible on Android and the Web, seamlessly integrating **waste management** while enhancing social engagement and commerce through innovative feature.

➤ EcoZen's multifaceted approach is **individuals** for sustainable living, **industries** for waste reprocessing, and **NGOs** for community cleanups. **Administrators** ensure smooth operations. Together, they drive sustainability and community engagement.

➤ Incorporation of government panel grants us **privileged access** to an extensive and diverse **reservoir of data**, encompassing a wide array of statistics critical to our app's operations.

➤ Utilizing advanced **Data visualization**, the insightful **Heatmaps** will provide waste disposal challenges for swift action and segregated waste areas for reuse in the admin and industry interface, respectively.

➤ For fostering **User engagement**, our platform enables issue discussions with **upvoting/downvoting** to prioritize pressing matters and content-based **rewards**.



Technology stack:



Idea/Approach Details

Describe your Use Cases here

- **Government Integration:** Government officials from various sectors can use the application to monitor and address environmental issues effectively.
- **AI-Powered Waste Sorting:** We use advanced AI to categorize waste and offer analytical insights, aiding government decisions.
- **Employment Opportunities:** We focus on opening up new job opportunities and enabling individuals to earn wages based on their contributions.
- **Educational Videos:** Empower users to share innovative Eco-solutions to environmental concerns, fostering an engaged community for interaction.
- **Local Eco Alerts:** Get timely notifications ongoing environmental concerns and events in real-time. Join community discussions, share ideas, and collaborate on local issues.

Describe your Dependencies /Show stopper here

- An **Android-based Geospatial** platform maps user-reported issues, rates them, and provides Employees with location-specific data, categorizing by urgency.
- As users contribute information, our **database** undergoes **real-time updates**, ensuring the continuous enhancement and precision of our platform's functionalities.
- **Snapshot & Advocacy** enable users to capture and share environmental issues, connecting with both **government** and **non-governmental** organizations.
- The platform facilitates the distribution of **waste materials** to industries for **reusability** and converts the resulting **revenue** into **wages** for employees.
- Our advanced **AI-powered "Go Green Streak tracker"** streamlines the process **image validation**, offering **Zen Coins** as rewards for eco-relevant content.
- The Zen Coins can be exchanged for a variety of **sustainable merchandise**, enhancing the motivation for environmentally-friendly engagement.

Team Member Details

Team Leader Name: Tejo Kaushal

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): CSE Year (I,II,III,IV): III

Team Member 1 Name: CB Praveen

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): CSE Year (I,II,III,IV): III

Team Member 2 Name: Kaushik Bhowmick

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): CSE Year (I,II,III,IV): III

Team Member 3 Name: Mahesh Thakkar

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): CSE Year (I,II,III,IV): III

Team Member 4 Name: Neem Sheth

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): CSE Year (I,II,III,IV): II

Team Member 5 Name: Misbah Shaikh

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): CSE Year (I,II,III,IV): II

Team Mentor 1 Name: Sneharsh Belsare

Category (Academic/Industry): Academic Expertise (AI/ML/Blockchain etc): AI/ML Domain Experience (in years): 1