

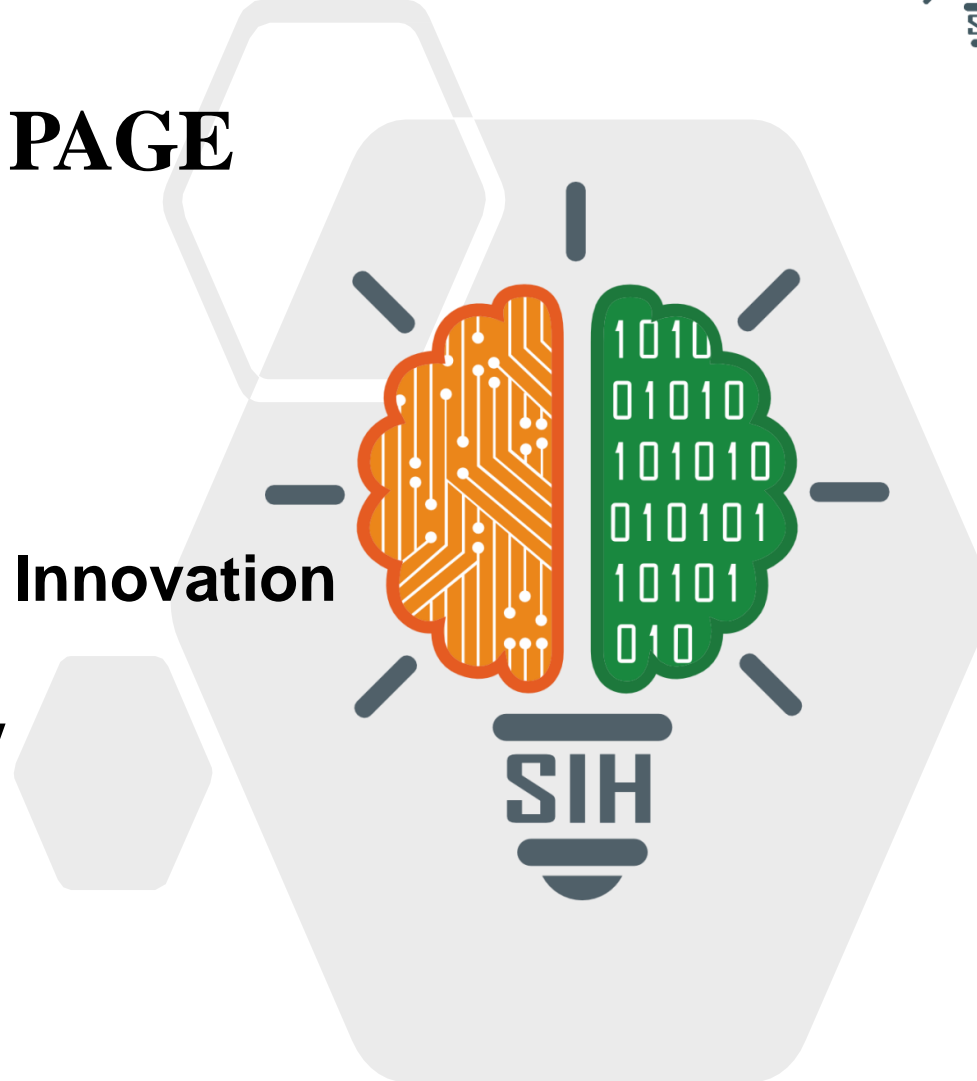
# SMART INDIA HACKATHON 2024



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HACKATHON  
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## TITLE PAGE

- Problem Statement ID –1592
- Problem Statement Title - Student Innovation
- Theme- Clean &Green Technology
- PS Category- Software
- Team ID- 2116
- Team Name - BSPAMS





**DESCRIPTION** :-CircularHub is an online platform that transforms waste into valuable resources by connecting users who want to recycle, repurpose, or donate waste materials.

**Addressing the Problem**:-Reduces waste by reusing materials that would otherwise end up in landfills

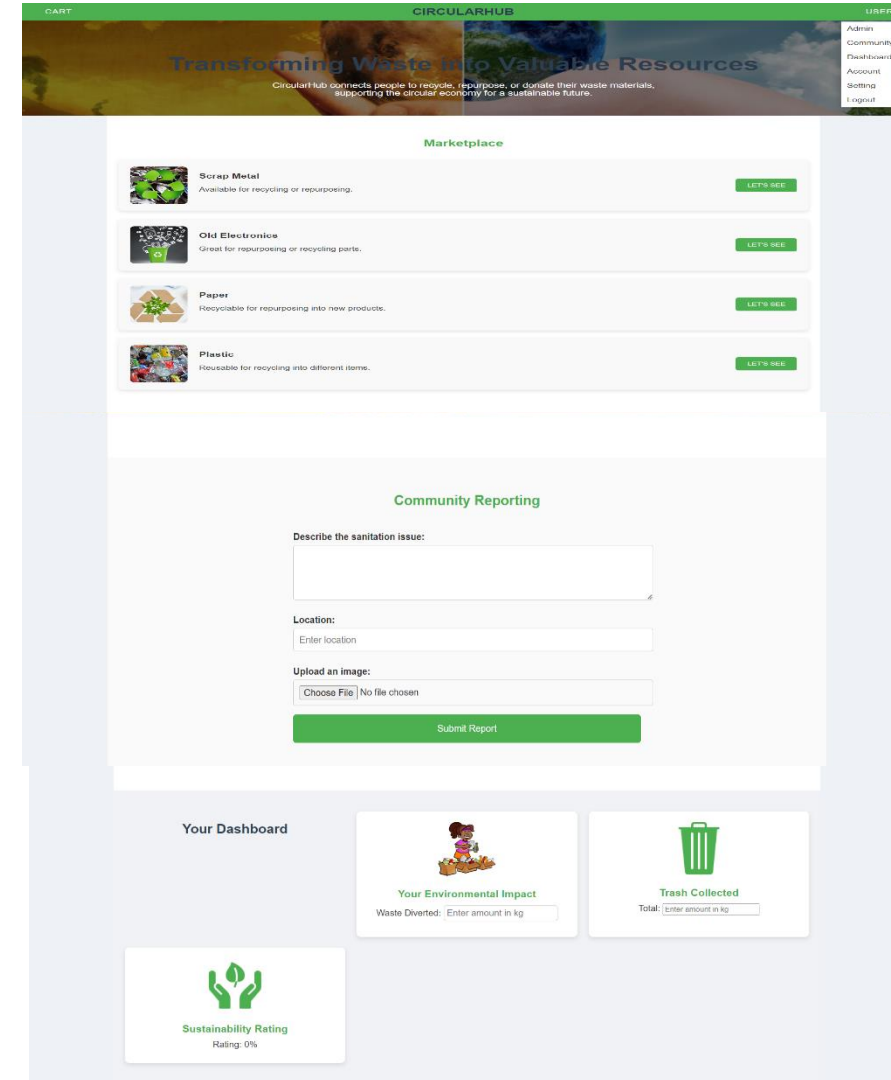
**Innovation & Uniqueness**:-Merges a marketplace for waste with community-driven sanitation reporting, boosting environmental and community health

## Technologies Used

- Programming Languages: Python, JavaScript
- Frameworks: Django, React
- Database: MySQL
- APIs: Google Maps for geotagging

## Methodology

- User-friendly interface for listing and browsing waste materials.
- Geo-tagging feature for reporting sanitation issues.
- Data analytics dashboard for tracking user impact.



## Feasibility:

- - Technically feasible with existing technologies and frameworks.
- - Scalable for expansion to new regions and waste types.

## Challenges:

- - User adoption in regions with low internet penetration.
- - Ensuring data security and privacy.

## Strategies:

- - User education and awareness campaigns.
- - Robust encryption and secure login mechanisms.



## Impact on Target Audience:

- - Empower communities to manage waste sustainably.
- - Reduces environmental footprint at both individual and community levels.

## Benefits:

- - Social: Enhances community cleanliness and public health.
- - Economic: Reduces waste disposal costs and creates opportunities for new businesses.
- - Environmental: Significant reduction in landfill waste and promotion of recycling.



## Research

- - Studies on the circular economy and waste management.
- - Research on community-driven environmental initiatives.
- - Technical references for the technologies and APIs used.

## References

- <https://www.ibm.com/products/environmental-intelligence-suite>
- <https://www.google.com/maps>
- <http://lsgkerala.gov.in/en/waste-management>