

# MUMBAI HACKS

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# Problem Statement

## 1. NEP 2020 - Mandatory Tree Plantation Requirement

- Urbanization and industrial growth in India have caused serious environmental problems, like deforestation and loss of biodiversity. Even though people are becoming more aware of these issues, students are not actively participating in solutions. Without mandatory tree planting programs in schools as part of the NEP 2020, students miss the chance to get involved in protecting the environment. This lack of involvement makes it harder to develop a sustainable mindset and become responsible citizens.

## 2 Limitation on Smoking Products

- Tobacco consumption remains a leading cause of preventable diseases and environmental pollution, adversely affecting public health. The unrestricted access to tobacco products results in increased smoking rates, particularly among youth, and exposes non-smokers to harmful secondhand smoke in public spaces. The current regulations are often ineffective, necessitating a more robust approach to limit tobacco availability and create controlled smoking environments that minimize health risks to the broader population.

## 3 Carbon Footprint Calculator

- Individuals and organizations often lack awareness and understanding of their carbon footprint, making it difficult to take meaningful action against climate change. Without an accessible tool to measure and analyze carbon emissions from daily activities, it becomes challenging to identify areas for improvement and track progress towards sustainability goals. This gap in knowledge hampers collective efforts to reduce greenhouse gas emissions and mitigate climate change effects.



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## Solution

### 1. NEP 2020 - Mandatory Tree Plantation Requirement

- Workshops: Conduct sessions to educate students on the importance of trees, their environmental benefits, and proper planting techniques.
- Community Projects: Organize local tree-planting events where students can collaborate to enhance their neighborhoods and engage with the community.
- Tracking Progress: Create a system to monitor the number of trees each student has planted. This will not only track their contributions but also encourage friendly competition among schools to see who can plant the most trees.
- Certification: Provide certificates or recognition for students who meet or exceed the requirement, fostering a sense of accomplishment and responsibility toward the environment.

## Solution

### 2. Limitation on Smoking Products

- **Solution:** Implement stricter regulations on tobacco sales and create designated smoking zones that are equipped with air purification systems. Key steps include:
- **Sales Limitations:** Allow only one pack of cigarettes per day for each person to reduce overall consumption.
- **Public Smoking Zones:** Establish designated smoking areas in public places that charge a fee to enter. These zones would have air purifiers to clean the smoke before it enters the surrounding environment.
- **Awareness Campaigns:** Launch campaigns to educate the public about the dangers of smoking and promote healthier lifestyle choices.

## Solution

### 3 Carbon Footprint Calculator

**Solution: User-Friendly Interface:** Allow users to input their daily activities (like transportation, energy use, and food choices) to calculate their carbon emissions.

- **Tips for Reduction:** Provide personalized suggestions on how to reduce their carbon footprint, such as using public transport, conserving energy, or choosing sustainable products.
- **Community Challenges:** Encourage users to participate in community challenges to lower their carbon footprints together, fostering a sense of teamwork and commitment to sustainability.

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Thank you