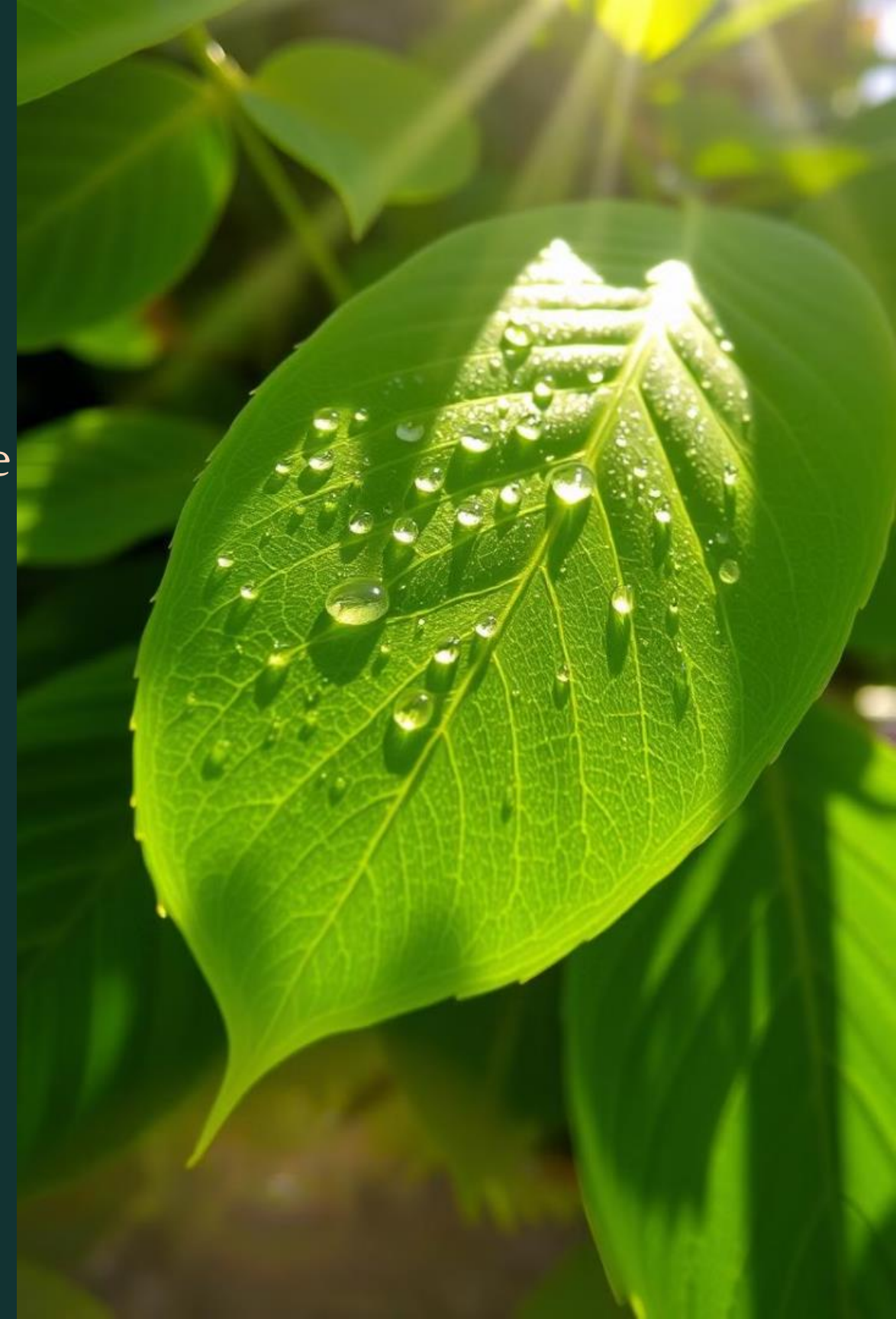NASA Challenge Statement: Uncover the Role of Green House

Gases in Your Neighborhood

Project Title: GHG Insight Website

Theme: Green House Gases

Team Name: Fun-tastic Six

Category: Software

Introduction & Problem Statement

1 INTRODUCTION

- Overview: The GHG Tracker Web App is an innovative tool designed to help users monitor and reduce their green house gas emission. Our goal is to make climate action accessible and engaging for everyone.

- Objective: Our app aims to empower individuals, students, and industries to take concrete steps towards reducing their carbon footprint by providing detailed tracking, personalized tips, and real-time alerts.

Problem Statement

- Current Challenges:

Climate change poses a significant threat, but many people find it challenging to track their emissions and identify effective ways to reduce them. Existing solutions often lack user engagement and comprehensive reporting.

Example: A college student interested in reducing their carbon footprint may struggle to find reliable information and tools to measure their daily activities' impact on the environment.

- Target Audience:

Our app is designed for a wide range of users, including students who are eager to learn and take ac on, industries aiming to showcase their sustainability efforts, and the general public looking for practical ways to contribute to climate ac on." o Example: "For instance, a manufacturing company can use the app to track its emissions, set reduction targets, and share its progress with stakeholders, enhancing its reputation and compliance with environmental regulations."

Features Overview

The GHG Tracker app offers a wide range of features to empower users in their sustainability journey.

1

DASHBOARD
A user-friendly interface that comprehensively overviews the user's carbon footprint, recent activities, and quick access to key features.

PROGRESS REPORTS & SUCCESS MATRIX
Detailed reports on emission reductions over me, including visual graphs and a success matrix to track goals.

2

3

FOOTPRINT REPORTS & COMPARITIONS
In-depth reports on the user's carbon footprint, with comparisons to peers or industry standards.

REAL-TIME ALERTS & EVENT SUMMARIES
Notifications about high emissions activities and summaries of significant climate-related events.

4

5

USER-ENGAGEMENT FEATURES
Daily tips, challenges, and the ability to compare performance with friends, colleagues to encourage engagement.

COMPANY-SPECIFIC GROUPS
Features tailored for companies, allowing them to create groups, share progress, and showcase success stories.

6

7

GAMIFICATION ELEMENTS
Points, badges, and leaderboards to motivate users to achieve their climate goals.

SPECIAL FEAUTERS FOR STUDENTS & INDUSTRIES
Mentorship programs for students &case studies for industries to learn &showcase climate action initiatives.

8

Key Feature Highlights

The app's key features are designed to simplify and enhance your GHG tracking experience.

Carbon Footprint Calculator

Calculate your emissions for different activities and scenarios.

Goal Setting

Set personalized goals for reducing your emissions over time.

Progress Monitoring

Track your progress toward your goals and celebrate your achievements.

Engagement & Special Features

The GHG Tracker app encourages community engagement and gamification to motivate users.

☆ Community Challenges

Offers various challenges that users can participate in to promote sustainable habits & behaviors. Example: A challenge might be to avoid using single-use plastics for a week, with users earning points and badges for completing it.

🏆 Reward System

Earn badges and rewards for achieving your sustainability goals.

🌐 Global Impact

Connects students with climate action mentors who can provide guidance, support, and inspiration.
Showcases successful climate action initiatives by various industries, providing inspiration and best practices.

Conclusion

- To summarize, our GHG Tracker Web App provides a comprehensive solution for tracking and reducing greenhouse gas emissions. With its user-friendly dashboard, detailed reports, real-me alerts, and engaging features, it empowers individuals, students, and industries to take meaningful climate action.
- The app's unique features, such as personalized reduction tips, gamification elements, and special tools for students and industries, make it a powerful tool for fostering a sustainable future.
- By taking small steps together, we can make a big impact on our planet.