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AI x SDGs Hackathon Competition 2026 – Preliminary Report Guidelines

1. The report must be written in English, using the font "Times New Roman" with a minimum font size of "11".

2. The main body of the report is limited to **15 pages**, excluding the Cover page and Appendices.

3. You need to follow the following report structure (with marks for each section)

- **Cover page (1 page, not counted towards the 15-page limit)**
  (i) The words "AI + Supply Chain Hackathon: The Green Logistics Challenge - Report"
  (ii) Title (Optional)
  (iii) Team name
  (iv) Members' names
  (v) School(s)

- **Section 1: Introduction (10%)**
  - ✓ **Problem Statement and Objectives**
    Clearly articulate the problem being addressed, including its context and importance. Clearly define the objectives that the team aims to achieve in solving the problem.
  - ✓ **High-Level Strategy**
    Provide a concise overview of the team's overall approach to addressing the problem. This should include the main strategies considered, the technologies involved, and the expected outcomes.

- **Section 2: Tools Utilized (10%)**
  - ✓ **Comprehensive Listing of Tools**
    List all the tools, software, and platforms utilized in the project. This may include GEN AI platforms, data analysis tools, visualization software, and project management tools.
  - ✓ **Justification for Each Tool Choice**
    Provide a brief description of each tool's purpose and justify why it was chosen for this project. The explanation should demonstrate a clear understanding of the strengths and limitations of each tool in relation to the problem being solved.

- **Section 3: Initial GEN AI Output and Critical Analysis (10%)**
  - ✓ **Presentation of Initial Output**
    The original problem prompt, and the raw, unmodified output generated by the GEN AI based on the original problem prompt are to be included in **Appendix A**.
  - ✓ **Critical Analysis (Strengths, Weaknesses, Gaps)**
    Critically evaluate the initial GEN AI output, discussing its strengths, weaknesses, and limitations. Identify gaps in the response that need further refinement to fully address the problem.

- **Section 4: Improvement Strategies and Data Enhancement (20%)**
  - ✓ **Improvement Strategies**
    Clearly outline the team's approach to improving the initial GEN AI output. This may include refining the prompt, incorporating additional context, or restructuring the problem statement.
  - ✓ **Prompt Engineering and Iterations**
    Detail the prompt refinement process, including any iterations made to enhance the quality of the GEN AI responses. Provide examples where possible.
  - ✓ **Data/Context Augmentation**
    Describe any external data or research that was added to improve the quality and relevance of the output. Explain why this data was necessary and how it contributed to better results.

- **Section 5: Enhanced GEN AI Output and Analysis (15%)**
  - ✓ **Presentation of Improved Outputs**
    Include the enhanced prompt and the improved GEN AI output, reflecting all refinements made in **Appendix B**.
  - ✓ **Highlighting Improvements and Effectiveness**
    Clearly indicate the changes made from the initial output. Discuss the specific improvements and assess the effectiveness of these changes in addressing the original problem.
  - ✓ **Role and Impact of Human Touch-Up**
    Clearly explain whether there are still limitations in the improved output and the role of human touch-up in refining the response. Discuss the impact of these human adjustments on the overall quality of the output.

- **Section 6: Final Solution (25%)**
  - ✓ **Presentation of Refined Team Output**
    Present the final, polished solution developed by the team, including key insights and findings. Ensure that the solution is clear, concise, and well-organized.
  - ✓ **Integration of Advanced Technologies (AI, IoT, Robotics, etc.) and Impact**
    Propose the use of AI or other advanced technologies as part of the solution. Evaluate how well these technologies are leveraged to improve yield per unit area, reduce operational costs, and enhance resource efficiency.
  - ✓ **Financial Viability, Risk Assessment, and Long-Term Sustainability**
    Provide a comprehensive analysis of the financial viability, potential risks, and long-term sustainability of the proposed solution. Include relevant data and projections where applicable.
  - ✓ **Use of Visual Aids and Clarity of Presentation**
    Use charts, diagrams, or other visual aids to enhance the clarity and impact of the final solution. Ensure the visuals are relevant and clearly presented.

- **Section 7: Conclusion & Reflection (10%)**
  - ✓ **Key Takeaways**
    Summarize the key lessons learned during the project, including insights on the strengths and limitations of GEN AI in solving the problem.
  - ✓ **Future Work and Improvement**
    Discuss how the team would approach similar problems in the future, including potential improvements to the tools, strategies, or methodologies used.
- **Additional Guidelines:**
  (i) **Appendix A** should include the initial prompt used and the corresponding initial GEN AI output, clearly labelled for reference in Section 3.
  (ii) **Appendix B** should include the improved prompt and the resulting enhanced GEN AI output, clearly labelled for reference in Section 5.
  (iii) **Final Team Output:** The final, refined solution presented in Section 6 should be developed based on the improved GEN AI output from Appendix B, incorporating any necessary human refinements and strategic adjustments.

4. Marks may be deducted at the judges' discretion if a team fails to follow the above guidelines.

5. Well-written reports with comprehensive and constructive content will be selected, allowing the respective teams to proceed to the second round of the competition, the "Online Presentation" stage.