**Project Design Phase**

**Problem – Solution Fit**

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| Date | 28 june 2025 |
| Team ID | LTVIP2025TMID35892 |
| Project Name | Enhanced Wings: Marvels of Butterfly Species |
| Maximum Marks | 2 Marks |

**Problem – Solution Fit :**

**🔍 Problem**

Butterflies, though widely admired for their beauty, are **under-researched indicators of biodiversity and environmental health**. Many **species are declining** due to habitat loss, climate change, pollution, and urbanization. Despite their ecological importance, **there is a lack of accessible, technology-driven tools** for tracking, studying, and preserving butterfly populations. Researchers, students, and conservationists **face challenges in identifying species accurately**, understanding distribution patterns, and making timely conservation decisions—especially in **remote or biodiversity-rich regions** with limited resources.

**💡 Solution**

**Enhanced Wings is a web-based AI tool that identifies butterfly species from images using machine learning. It provides real-time species information, maps their locations, and supports conservation efforts. The platform also includes educational resources, making butterfly research easier and more accessible for everyone.**

**Example:**

