**Project Design Phase**

**Problem – Solution Fit Template**

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| Date | 16 February 2026 |
| Team ID | LTVIP2026TMIDS52481 |
| Project Name | Dog Breed Identification Using Transfer Learning |
| Maximum Marks | 2 Marks |

**Problem – Solution Fit Template:**

Problem–Solution Fit means clearly identifying a real user problem and ensuring that the proposed AI-based solution effectively solves it. In this project, the focus is on **accurate and automatic identification of dog breeds from images** using deep learning and transfer learning.

This approach helps innovators and developers understand user needs, validate whether the solution truly addresses the challenge, and improve adoption of intelligent animal-recognition systems.

**Purpose:**

 Solve the difficulty of **manual dog breed identification**, especially when breeds look visually similar.

 Provide an **AI-powered automated classification system** using CNN and MobileNetV2 transfer learning.

 Enable **fast, accurate, and accessible breed prediction** through a web-based interface.

 Improve **pet care, veterinary support, and rescue/adoption decision-making** using reliable breed information.

 Deliver a **scalable and user-friendly intelligent recognition solution** deployable on cloud platforms.

**Template:**

