

## Ideation Phase

### Empathize & Discover

Date	14 Feb 2026
Team ID	LTVIP2026TMIDS52481
Project Name	Dog Breed Identification using Transfer Learning
Maximum Marks	4 Marks

#### Empathy Map Canvas:



Pains (Problems / Challenges)	Gains (Benefits / Value)
<b>1. Difficulty Identifying Dog Breeds</b> <ul style="list-style-type: none"> <li>Many dog breeds look visually similar</li> <li>Non-experts cannot correctly recognize breeds from images</li> </ul>	<b>1. Fast Breed Identification</b> <ul style="list-style-type: none"> <li>AI model detects dog breed instantly from an image</li> <li>Saves time for pet owners and veterinarians</li> </ul>
<b>2. Manual Verification Dependency</b> <ul style="list-style-type: none"> <li>Requires veterinarians or breed experts</li> <li>Time-consuming and inefficient for quick identification</li> </ul>	<b>2. Automated Image-Based Diagnosis</b> <ul style="list-style-type: none"> <li>CNN / Transfer Learning analyzes images automatically</li> <li>Reduces dependence on manual breed experts</li> </ul>
<b>3. Limited Accessibility</b> <ul style="list-style-type: none"> <li>Breed information not easily available everywhere</li> <li>Pet owners in remote areas lack expert guidance</li> </ul>	<b>3. High Prediction Accuracy</b> <ul style="list-style-type: none"> <li>Deep learning captures subtle visual features</li> </ul>

<p><b>4. Human Error</b></p> <ul style="list-style-type: none"> <li>● Misidentification due to lack of knowledge or experience</li> <li>● Inconsistent results across different observers</li> </ul>	<ul style="list-style-type: none"> <li>● Provides reliable and consistent classification results</li> </ul> <p><b>4. Scalable &amp; User Friendly</b></p> <ul style="list-style-type: none"> <li>● Can classify thousands of images efficiently</li> <li>● Useful for mobile apps, veterinary tools, and pet services</li> </ul>
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