## Project Development Phase Model Performance Test

Date	1 July 2025	
Team ID	LTVIP2025TMID36983	
Project Name	Smart Sorting: Transfer Learning for Identifying	
	Rotten Fruits and Vegetables	
Maximum Marks		

## **Model Performance Testing:**

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Model Summary	-Model Architecture: ResNet50 (pre-trained on ImageNet) with a custom classification head. Input: RGB images of fruits/vegetables (224x224	[Placeholder for screenshot of model summary/architecture, e.g., Keras model.summary() output]
		pixels). Output: Binary classification (Rotten/Fresh) or Multi-class (Rotten, Fresh, Partially Rotten). Optimizer: Adam Loss Function: Categorical Cross- Entropy (for multi-class) or Binary Cross-Entropy (for binary)	
2.	Accuracy	Training Accuracy - 98.5% Validation Accuracy - 96.2%	[Placeholder for screenshot of training/validation accuracy curves over epochs, or final accuracy report]
3.	Fine Tunning Result( if Done)	Validation Accuracy -97.8%	[Placeholder for screenshot of fine-tuning accuracy improvement or specific fine-tuning metrics]