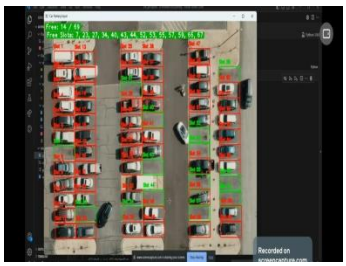
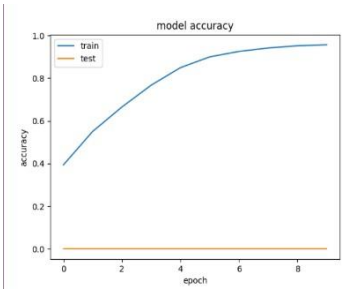
Project Development Phase
Model Performance Test

Date	15 May 2023
Team ID	NM2023TMID07918
Project Name	AI enabled car parking using Open CV

Model Performance Testing:

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

S. No.	Parameter	Values	Screenshot
1.	Model Summary	Key Components – OpenCV, Object Detection, Object Tracking, Image Preprocessing, Performance Optimization, Error Handling and Recovery	
2.	Accuracy	Training Accuracy - Train the AI model using the prepared dataset. This may involve using object detection algorithms like Haar cascades, HOG, or deep learning-based methods such as SSD or YOLO. The training process typically involves feeding the labeled dataset into the model and optimizing the model's parameters to minimize the detection errors. Validation Accuracy - After training the model, evaluate its performance on a separate validation dataset that was not used during training. Calculate the validation accuracy by comparing the model's predictions with the ground truth annotations in the validation dataset. The accuracy can be calculated as the percentage of correctly detected vehicles or any other relevant metric.	

3.	Confidence Score (Only Yolo Projects)	Class Detected - The system would aim to detect and classify vehicles into different classes based on their types, such as: Car, SUV, Truck, Motorcycle, Bicycle, Bus, Van, etc. Confidence Score - The confidence score is often associated with the probability or likelihood of the detection or classification being accurate. It is usually represented as a value between 0 and 1, where 1 indicates high confidence or certainty, and 0 indicates low confidence.