

MAJOR / MINOR PROJECT ABSTRACT [Form – 1] (YEAR - 2022)

NAME OF LAB COORDINATOR:

Mrs. Anjana Sangwan

TITLE OF PROJECT:

Vehicle Weight Tracking System using Image Processing

PROJECT TRACK: (Tick the appropriate one / ones)

1. R&D (Innovation) ✓	2. CONSULTANCY (Fetched from Industry)	3. STARTUP (Self-Business Initiative)	4. PROJECT POOL (From IBM / INFOSYS)	5. HARDWARE / EMBEDDED
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BRIEF INTRODUCTION OF PROJECT:

Vehicle weight tracking system is an application to track vehicle weight and get vehicle details by reading number plate through camera. Road safety measures are checked for the vehicle.

TOOLS / TECHNOLOGIES TO BE USED:

NAME OF TOOL / TECHNOLOGY	VERSION	SOFTWARE / HARDWARE	PURPOSE OF USE
React JS	18.8	Software	For creating graphical user interface and frontend
MongoDB Atlas	6.0.1	Software	For database
Flask	2.2.2	Software	For backend and image processing
Camera	–	Hardware	For capturing the image
Vscode	1.72.0	Software	For smooth project building

PROPOSED PROJECT MODULES:

NAME OF MODULE	PROPOSED FUNCTIONALITY IN PROJECT
Image processing	Will process the captured image of vehicle
Database	Will store information of vehicles
Backend	Responsible for executing image processing and updating and getting data from database
Api creation	Will facilitate in giving frontend access of data from backend
Frontend (React JS)	Will display all the response and interact with user (traffic police)

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TEAM MEMBER DETAILS:

STUDENT NAME	CLASS & GROUP	MOBILE No.	EXPERTISE AREA	ROLE IN PROJECT
Ritesh Sharma	DG2	8619732380	Frontend web development and Python	Frontend developer and Api developer
Saurabh Pareek	DG2	8875075342	Frontend developer , python , Mongo DB	Backend and database management

NOTE: 1. This form is to be submitted by a team of maximum 4 students in the starting of semester to lab coordinator. 2. Students must keep a Xerox copy of this form as reference for project work and attach it to final report.

ROLE SPECIFICATION OF TEAM MEMBERS [Form – 2]

MEMBER 1 Saurabh Pareek		HANDLING MODULE OpenCV, MongoDB and Flask	
NAME OF ACTIVITY	SOFT DEADLINE DATE	HARD DEADLINE DATE	DETAILS OF ACTIVITY (STORY)
Image recognition system	1/Sept/2022	7/Sept/2022	Will process The captured image of vehicle
MongoDB database schema	20/Sept/2022	27/Sept/2022	Will manage data for vehicle 's details and facilitate its retrieval ,updatation and new record creation
Backend creation	5/Oct/2022	15/Oct/2022	For executing image processing and updating and getting data from database
Deploy backend	1/Nov/2022	10/Nov/2022	Integrate the backend ,database and frontend to remote host machine using cloud computing
MEMBER 2 Ritesh Sharma		HANDLING MODULE Api Creation, Frontend	
NAME OF ACTIVITY	SOFT DEADLINE DATE	HARD DEADLINE DATE	DETAILS OF ACTIVITY (STORY)
Frontend (Home Page)	7/Sept/2022	12/Sept/2022	Will tell all about the project.
Frontend (Image Capturing)	25/Sept/2022	30/Sept/2022	

			For capturing image and upload it on frontend so it can send the image to backend for image processing and verification of vehicle
Api creation	15/Oct/2022	22/Oct/2022	For facilitating communication b/w frontend and backend and help frontend to access data of database
Frontend(Response to Captured Vehicle image)	30/Nov/2022	10/Nov/2022	To display the details and status of vehicle and issue penalty if not following the traffic norms
MEMBER 3 _____		HANDLING MODULE _____	
NAME OF ACTIVITY	SOFT DEADLINE DATE	HARD DEADLINE DATE	DETAILS OF ACTIVITY (STORY)
MEMBER 4 _____		HANDLING MODULE _____	
NAME OF ACTIVITY	SOFT DEADLINE DATE	HARD DEADLINE DATE	DETAILS OF ACTIVITY (STORY)

MENTOR'S NAME & SIGNATURE
