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| MINOR PROJECT |
| BCE- C760 |



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| **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING FACULTY OF ENGINEERING AND TECHNOLOGY GURUKUL KANGRI UNIVERSITY**  **2019-2020** | |

**Toll Plaza Management System {TPMS}**

Problem Statement : Heavy Traffic jam occurring at Toll Plaza because of using old System of

collecting Toll Taxes Increase the waiting Time .

Objective: Create a software that help in managing the Traffic at Toll Plaza by click a photo of individual cars & driver and send a e-challan to the car owner. To pay the toll tax online. car owner is pay money within a certain date .

Description: This project is intended to provide a full-fledged facility to all traffic jam in India. The problem at traffic jam is increase so by this application problem is easily solve. In this we first catch a photo of no. plate of vehicle by help of ML we convert this image to digital form then once the vehicle no. is matched in database then program itself generate a e-challan. The matched no. and owner name and mobile message send to person inside a message there was online link provided to person for easily pay e-challan at any place in free time.

Technologies Used:

* **Programming Languages Used:**  Python
* **Module used:**

Tkinter module: - Tkinter is Python’s de-facto standard GUI (Graphical user interface) package.

Numpy module: - NumPy enriches the programming language python with powerful data structures, implementing multi-dimensional array and matrices.

Pandas module: - Python library providing high-performance, easy to use data structures and data analysis tools for the python languages.

Team Members: Mentored By:

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