**ABSTRACT**

The main objective of this system is to optimize and also improve the cab booking system for an organisation by many folds. This is achieved through a application through which an employee of an organisation can book a cab and the ride is authenticated by an in-charge. The cab availability is ensured through a ML algorithm, which captures the in and out time of a cab. In existing softwares, the is no proper way to record a log or check the entries and exits of the car and also the availability of carIf an employee wants a ride, he/she can select the available cab. A Machine Learning algorithm is used to store the in and out time of the cabs.The aim of purposed system is to use Machine Learning Algorithm OpenCV, python tesseract to read the in and out time of the taxis to improve the efficiency and optimizes the cab management operation. The above machine learning algorithm will read the live video feed from the camera which will split that into images and read the number plate. Then we will store the data in a data base to record the logs of entries and exits of the car. We are designing this module as a API. Employee, admin login will be done with Django as the end. We are doing this with the help of in-built libraries of python such as a OpenCV, python-tesseract in the back end for machine learning algorithms, while we are doing the management page for the admin using Django. The data transfer between back-end and front-end is carried out with API’s. The scope of the project is within the organisation level. The results of the project will provide IT parks, big organization’s a well optimized and efficient software for their employees to travel without sacrificing safety.