**INTRODUCTION**

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**1.1 Project Overview**

Over the last few decades our country has developed significantly, now we are in this state that we have a well-established network of roads and transportation, commercial parks and exponentially increasing number of automobiles but one problem still prevails, Parking. While other countries have adopted automated and supervision free parking method India seems far away from even introducing the same, we still use manual and rigid parking procedures. Which in most of the cases is unplanned and lacks discipline and due to this people park their cars anywhere they think it will fit which creates a mess as they do not follow the particular cue as observed in most scenarios. It also causes economical loss to commercial places like shopping malls and amusement parks as people are more likely not to visit these places due to this parking hazard. Here we are going to solve this problem by introducing Automated Car Parking System. This system will be low cost so that even smallest of the commercial buildings can purchase and apply this system in their parking lot which eliminates the first problem as to why such systems are not adapted by India yet. While being cheap it will be efficient and smooth enough to be used by huge shopping complexes and MNCs. This system will also have complete internet support so it can be monitored from anywhere in the world and booking your parking slot can be done with so much ease now. The proposed system is described in further parts of this report in detail.

**1.2 Problem Statement**

The “Automated Car Parking System” provides a remote facility to users to find a parking slot for their vehicle. Finding a parking slot in most of the metro cities is a tedious job which consumes a lot of time and wastage of fuel.