PROPOSAL

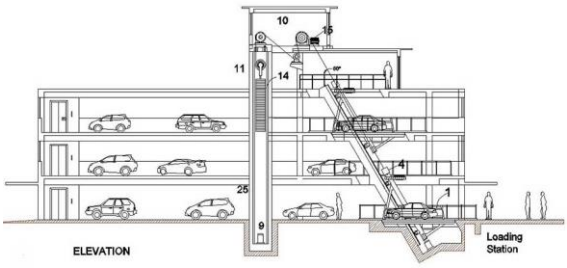
ABSTRACT:

The ever increasing population has led to chaotic city traffic. As a result of the process of searching a parking lot becomes tedious. It is time consuming task leading to discomfort. The fuel consumption is on an increasing side due to such scenarios. The increase in vehicular traffic creates a negative impact on the environment. In the wake of smart city times to resolve these issues and satisfy the increasing demand for the parking areas, parking management organizations are trying to implement better and technologically advanced solutions. A cloud based smart parking application will enable real time parking availability monitoring and reservation thereby providing better services to the end users as well as reduce the workload of the parking administrator.

PROBLEM STATEMENT:

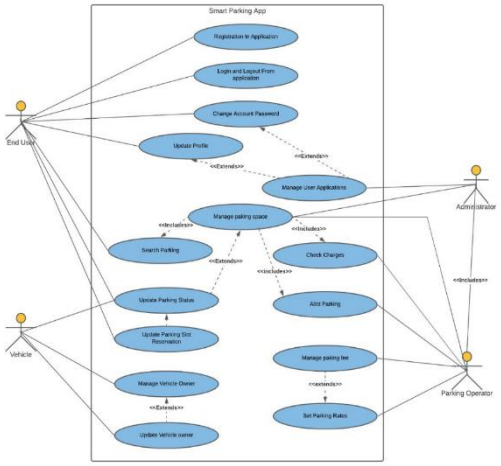
The Smart Parking centers aims at helping users to find the most suitable area for parking, make reservations and extend them, if required. It enables parking administrators to define and manage parking spaces as well as enables parking operators to authenticate users against their reservations when user enter the parking area. Users access location based information and request system services via mobile applications and parking operators verify reservations via mobile applications whereas parking admins may manage the parking area details via a web application.Smart parking helps one of the biggest problems on driving in urban areas; finding empty parking spaces and controlling illegal parking.

SYSTEM ARCHITECTURE:



STRUCTURE OF THE MULTILEVEL PARKING CENTER

3D VIEW OF AUTOMATED PARKING CENTER



USE CASE DIAGRAM OF AUTOMATED PARKING SYSTEM INTEGRATED WITH MOBILE AND WEB APPLICATION

REFERENCES: Fully Automated Parking Solutions: Space-saving systems with superior user experience | ArchDaily